

Jerrick Hernandez < jhernandez@guamopa.com>

### Procurement Appeal Docket No. OPA -PA-21-015 University of Guam's Submission of the Procurement Record

Cynthia Guerrero <cguerrero@triton.uog.edu>

Thu, Dec 16, 2021 at 6:37 PM

To: "jhernandez@guamopa.com" <jhernandez@guamopa.com>, GPE INC <guampacific@gmail.com>

Cc: "Camacho, Anthony" <arcamacho@triton.uog.edu>

Cynthia Guerrero has shared a OneDrive for Business file with you. To view it, click the link below.



OPA-PA-21-015.pdf

### Hafa Adai:

Attached is a copy of the University of Guam's Submission of the Procurement Record in reference to Docket No. OA-PA-21-015.

Si Yu'os ma'åse',



Cynthia T. Guerrero, MPA

Office of the Legal Counsel Office: +1 (671) 735-2992 cguerrero@triton.uog.edu

https://www.uog.edu/administration/office-of-the-president/legal-counsel

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ANTHONY R. CAMACHO, ESQ. UNIVERSITY OF GUAM UOG Station Mangilao, Guam 96923

Appearing as Counsel for University of Guam

### PROCUREMENT APPEAL

IN THE MATTER OF	) DOCKET NO. OPA-PA-21-015
GUAM PACIFIC ENTERPRISES, INC.,	) UNIVERSITY OF GUAM'S SUBMISSION OF THE
Appellant.	) PROCUREMENT RECORD
	_)

COMES NOW, Purchasing Agency UNIVERSITY OF GUAM (the "University"), through its General Counsel, ANTHONY R. CAMACHO, ESQ., who, in accordance with 2 G.A.R., Div. 4, §12104(3) and the OPA's December 9, 2021 Notice of Receipt of Appeal of this matter, submits a complete copy of the University's Procurement Record for UOG-IFB-B21-17 (Purchasing of HVAC Equipment) which is attached herein.

SUBMITTED THIS 16th day of December, 2021 by:

ANTHONY R. CAMACHO, ESQ. Attorney for the University of Guam

### UNIVERSITY OF GUAM PROCUREMENT RECORD FOR

### UOG-IFB-B21-17 (PURCHASING OF HVAC EQUIPMENT)



### **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

### UNIVERSITY OF GUAM INVITATION FOR BID NO. B21-17 (PURCHASING OF HVAC EQUIPMENT)

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- 7. Memorandum of Evaluation
- 8. Certification of Procurement Record
- 9. Notice of Award
- 10. Purchase Order
- 11. Sedfrey Linsangan Complaint
- 12. Complaint Decision

### **Determination of Need**

RE: Written Determination of need for HVAC Equipment.

Greetings,

This determination is made to comply with 5 G.C.A. §5249(e) and Section 3.27.3.5, UOG Procurement Regulations. The University of Guam's Facilities Management & Services has determined that the purchasing of new HVAC equipment for UOG's RFK Library, PIP/GIE Building, Science Building, English Communication Building, the Computer Center, the Lectur Hall Auditorium, Marine Lab, and the HSS Building are required to replace old and worn out units that require greater maintenance to operate, and to maintain a healthy climate in those buildings.

SUBMITTED this 15th day of September, 2021 by:

GLENN A. LEON GUERRERO, MBA.

Dla Im Jam

Director, UOG Facilities Management & Services

RE: Written Determination to solicit for and use a Multi-Term Contract for UOG-IFB-B21-17 (Purchasing of HVAC Units for UOG)

### Greetings,

This determination is made to comply with Section 3.21.4, UOG Procurement Regulations. Prior to the issuance of the UOG-IFB-B21-17 (Purchasing of HVAC Units for UOG), the undersigned hereby determined the following:

- 1. The furnishing of long-term optional services for the HVAC Units, such as services for maintenance and upkeep of the new HVAC Units, services for their disposal, and a replacement or trade in program are required to meet the University's need for new HVAC Units.
- 2. A multi-term contract will serve the best interest of the University by promoting economies in the University's procurement because a change of the vendor providing the optional services stated above from one fiscal year to the next involves phase-in and phase-out costs during transition periods.
- 3. The cost and burden of contract solicitation, award, and administration of procuring contractors to perform the optional services described above may be reduced with a multi-term contract.

SUBMITTED this 15th day of September, 2021 by:

EMILY G. GUMATAOTAO

Supply Management Administrator

### Log of Communication

# UNIVERSITY OF GUAM COMMUNICATION LOG FOR IFB OR RFP

BID/RFP NO. B21-17					
	FULL NAME (PERSON	DDRESS (PRINT	_		
			DAIL.	HAC	TOXTOSESOCIECT OF EMAIL
	CARMELITA BLAS	cgblas@triton.uog.edu	9/21/2021 144p	144p	UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG
	Leon Guerrero, Glenn	glennlg@triton.uog.edu	9/21/2021 333p	33p	Re: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG
	John Ryan	jtyan@me.com	10/22/2021 1218p	1218p	Re: UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT
JB MODERN TECH	Deo Lagman	dlagman@jbmodemtech.com	10/22/2021 238p	38p	UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT
JWS Refrigeration & A/C Lt/Anthony Scragg	Anthony Scragg	anthonys@jwsguam.com	10/22/2021 239p	.39p	UOG BID NO. 821-17-REQUEST FOR SITE INSPECTION AND PREBID CONFERENE
UOG	UOG PROCUREMENT	uog.bids@triton.uog.edu	10/22/2021 241p	41p	RE: UOG IFB 821-17: PURCHASING OF HVAC EQUIPMENT
JRN GUAM	Teddy Garcia	Teddygarcia@irngu.com	10/22/2021 259p	59p	UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT
UOG	UOG PROCUREMENT	uog.bids@triton.uog.edu	10/25/2021 907a	07a	UOG IFB B21-17 (Purchasing of HVAC Equipment)
MEDPHARM	Arthur Adriano	arthur.adriano@medpharmusa.ne	10/25/2021 918a	18a	UOG IFB 821-17 (Purchasing of HVAC Equipment)
MEDPHARM	Arthur Adriano	arthur.adriano@medpharmusa.ne	10/25/2021 931a	31a	UOG IFB B21-17 (Purchasing of HVAC Equipment)
Ability Solutions	Nacia Atalig	nacia@abilitysolutionsllc.biz	10/25/2021	1004	1004 UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT
MEDPHARM	Arthur Adriano	arthur.adriano@medpharmusa.ne	10/25/2021	1019	1019 UOG IFB B21-17 (Purchasing of HVAC Equipment)
JWS Refrigeration & A/C Lt Anthony Scragg	Anthony Scragg	anthonys@jwsguam.com	10/25/2021	1211	1211 RE: UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT
JRN GUAM	Teddy Garcia	Teddygarcia@jmgu.com	10/25/2021 157p	57p	UOG BID NO. B21-17-REQUEST FOR SITE INSPECTION AND PREBID CONFERENE
uog	Leon Guerrero, Glenn	glennlg@triton.uog.edu	10/25/2021 209p	)9p	Fw: UOG BID NO. B21-17-REQUEST FOR SITE INSPECTION AND PREBID CONFERENE
	Sandra McAuliffe	Smcauliffe@triton.uog.edu	10/25/2021 216p	16p	FW. UOG BID NO. BZ1-17-REQUEST FOR SITE INSPECTION AND PREBID CONFERENCE
MEDPHARM	Arthur Adriano	arthur.adriano@medpharmusa.ne	10/25/2021 519p	19p	KE: OOG IFB BZ1-17 (Fulchasing of FVAC Equipment)
300					

John Ryan jtyan@me.com 10/29/2021 609p	Do: IOO IEB BA4 47.	MJM International Joeann Pangelinan joeann@mjmetc.com 10/29/2021 548p Re: UOG IFB B21-17:						com	10/29/2021 1156a	JRN GUAM Teddy Garcia Teddygarcia@imgu.com 10/29/2021 1134a Re: UOG IFB B21-17		10/29/2021 1057a	amel.francisco@carrier.com 10/29/2021 1052a	an joeann@mimetc.com 10/29/2021 1051a	anthonys@insgriam.com 10/27/2021 9308	10/27/2021 935a	Sedfrey Lingsangan guampacific@gmail.com 10/26/2021 406p	GPE, INC Sedfrey Lingsangan guampacific@gmail.com 10/26/2021 357p UOG IFB B21-17 : Purchasi	One Pacific Group Alex Pearson alex person@onepacgrp.com 10/26/2021 1045a UUG IFB 621-17 (PU	COMMUNICATION LOG FOR IFB	UNIVERSITY OF GUAM
IJOG IEB Nig B21-17	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2	21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 1	17 : Purchasing of HVAC Equipment	UOG IFB 821-17 : Purchasing of HVAC Equipment	UCG IFB b21-17: Purchasing of HVAC Equipment	UOG IFB B21-17 : Purchasing of HVAC Equipment	17 : Purchasing of HVAC Equipment	17 : Purchasing of HVAC Equipment	UUG IFB 621-17 (Pulcinasing of HVAC Equipment)	FOR 1FB OR REP	FGUAM

International Control Standbaz
Teddy Garcia Teddygarcia@imqu.com  Tunn Scott Ivnn Scott

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Fw: RFIs for Bid No. B21-17  Re: RFIs for Bid No. B21-17	glennlg@triton.uog.edu	glennlg@triton.uog.edu	glennlg@triton.uog.edu	glennig@triton.uog.edu	bernard llarenas2@carrier.com	glennig@triton.uog.edu	bernard.llarenas2@carrier.com	glennig@triton.uog.edu	bemard.llarenas2@carrier.com		glennlg@triton.uog.edu	glennlg@triton.uog.edu	glennlg@triton.uog.edu	anthonys@jwsguam.com	bernard.llarenas2@carrier.com	anthonys@jwsguam.com	johnlg@triton.uog.edu		bernard.llarenas2@carrier.com	
FW: RFIs for Bid No. B21-17  Follow up on RFI for UOG Bid B21-17: PURCHASING OF HVAC EQUIPMENT  Re: Follow up on RFI for UOG Bid B21-17?  Re: Follow up on RFI for UOG Bid B21-17?  Re: Follow up on RFI for UOG Bid B21-17  Re: RFIs for Bid No. B21-17	11/18/2021 945a	11/18/2021 848a	11/18/2021 844a	11/18/2021 816a	11/18/2021 7473	11/18/2021 330a	11/18/2021 1232a	11/18/2021 1219a	11/17/2021 354p		11/17/2021 421p	11/16/2021 444p	11/16/2021 408p	11/16/2021 932a	11/16/2021 757a	11/16/2021 738a	11/16/2021 738a		11/15/2021 1017a	UNIV
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			COMMUNIC	UNIVERSITY OF GUAM COMMUNICATION LOG FOR IFB OR RFP
Green Energy Solutions	Lynn Scott	lynn@gesiworld.com	11/22/2021 552p	RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4
JWS Refrigeration & A/C Lt/Anthony Scragg	Anthony Scragg	anthonys@jwsguam.com	11/23/2021 1109a	UOG IFB No. B21-17, Signed Amendment 4
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/23/2021 1105a	Re: UOG IFB 821-17 : Purchasing of HVAC Equipment - AMENDMENT 4
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/23/2021 1237a	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4
JB Modern Tech	Gene Bangayan	GeneBangayan@jbmodemtech.c	11/23/2021 519p	UOG IFB NO. B21-17
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/24/2021 905a	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/24/2021 911a	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/24/2021 914a	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4
JB Modern Tech	Gene Bangayan	GeneBangayan@jbmodemtech.c	11/24/2021 223p	FW: UOG IFB NO. B21-17
JB Modern Tech	Gene Bangayan	GeneBangayan@jbmoderntech.g	11/24/2021 324p	Re: UOG IFB NO. 821-17
	UOG PROCUREMENT	uog.bids@triton.uog.edu	11/24/2021 335p	UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5
Green Energy Solutions	Lynn Scott	lynn@gesiworld.com	11/24/2021 338p	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5
GPE, INC	Sedfrey Lingsangan	guampacific@gmail.com	11/24/2021 343p	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5
JB Modern Tech	Gene Bangayan	GeneBangayan@jbmoderntech.c	11/24/2021 405p	Re: UOG IFB NO. B21-17
Carrier	Bernard Llarenas	bemard.llarenas2@carrier.com	11/24/2021 405p	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5
JB MODERN TECH	Deo Lagman	dlagman@jbmoderntech.com	11/24/2021 415p	UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5
Carrier	Camacho, Rochelle	rochelle.camacho2@carrier.com	11/24/2021 428p	Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 4

### GPE, INC GPE, INC All Business Enterprise JWS Refrigeration & A/C Lt Anthony Scragg MJM International JB MODERN TECH JWS Refrigeration & A/C Lt/Anthony Scragg Tony's Workshop Tony's Workshop All Business Enterprise Carrier One Pacific Group JWS Refrigeration & A/C Lt Anthony Scragg Sedfrey Lingsangan Nelia Bangayan Caroline Delos Reyes Deo Lagman Rey Leung UOG PROCUREMENT Sedfrey Lingsangan Emer Emer UOG PROCUREMENT Michael Ecalnea Nelia Bangayan Michael Ecalnea Alexandra Pearson Camacho, Rochelle guampacific@gmail.com uog.bids@triton.uog.edu anthonys@jwsguam.com nbangayan@jbmodemtech.com dlagman@jbmoderntech.com guampacific@gmail.com caroline@mjmetc.com uog.bids@triton.uog.edu anthonys@jwsguam.com checkpointinternational@gmail.cd engineers.surafcesolutions@gma mike@tonysworkshop.com engineers.surafcesolutions@gma mike@tonysworkshop.com alex.pearson@onepacgrp.com nbangayan@jbmodemtech.com rochelle.camacho2@carrier.com anthonys@jwsguam.com 11/29/2021 212p 11/29/2021 1151a COMMUNICATION IESEN TO RIGHTING KHEND Equipment - AMENDMENT 5 11/30/2021 651a 11/29/2021 151p 12/3/2021 534p 11/29/2021 1134a 11/29/2021 744a 11/24/2021 440p 11/24/2021 429p 12/6/2021 818a 12/6/2021 808a 12/4/2021 948p 11/24/2021 446p 12/6/2021 1010a 12/3/2021 533p 12/3/2021 447p 12/3/2021 439p 12/3/2021 1020a Fwd: Notice of Protest, Bid 21-17 UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 6 UOG IFB B21-17: Amendment 3 , 4, 5 & 6 Amedment 6 RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 6 UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 6 UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 6 UOG IFB No. B21-17 submission inquiries Fw: UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT Fw: UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5 UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 5

UNIVERSITY OF GUAM

GPE, INC Sedfrey Lingsangan quampacific@gmail.com 12/7/2021 1011a  GPE, INC Sedfrey Lingsangan quampacific@gmail.com 12/7/2021 1016a	Green Energy Solutions Lynn Scott <u>lynn@qesiworld.com</u> 12/6/2021 608p		JWS Refrigeration & A/C Lt/Anthony Scragg anthonys@jwsguam.com 12/6/2021 127p  GPE, INC Sedfrey Lingsangan guampacific@gmail.com 12/6/2021 305p	All Business Enterprise Nelia Bangayan nbangayan@jbmoderntech.com 12/6/2021 125p  Tony's Workshop Michael Ecainea nike@tonysworkshop.com 12/6/2021 126p	Michael Ecalnea <u>mike@tonysworkshop.com</u>	All Business Enterprise Nelia Bangayan nbangayan@jbmoderntech.com 12/6/2021 1206p  All Business Enterprise Nelia Bangayan nbangayan@jbmoderntech.com 12/6/2021 1218p	UOG PROCUREMENT uog.bids@triton.uog.edu 12/6/2021 1107a  JWS Refrigeration & A/C Ltt Anthony Scragg anthonys@jwsguam.com 12/6/2021 1119a	JWS Refrigeration & A/C Lt Anthony Scragg anthonys@jwsguam.com 12/6/2021 1102a
Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD  1a IFB B 21-17, HVAC equipment		Re: Notice of Protest, I UOG IFB B21-17 : Pur INTENT TO AWARD	Re: Anthony Scragg uploaded new files to your request for B21-17 BID SUBMISSION  Notice of Protest, Bid 21-17  p.		RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link  26p  Re: Nelia Bangayan uploaded new files to your request for B21-17 RID SUBMISSION	UOG Bid B21-17  06p  Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link  18p		12/6/2021 1102a

# UNIVERSITY OF GUAM

Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD	405p	12/9/2021 405p	engineers.surfacecolutions@gma	Emer Ocampo	
Re: Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7, 2021	305p	12/9/2021 305p	jmac@triton.uog.edu	Jonas Macapinlac	
OPA-PA-21-015 Notice of Receipt of Appeal	1 1042a	12/9/2021 1042a	jhemandez@guamopa.com	Jerrick Hernandez	OPA-Guam
Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7, 2021	1 1219p	12/8/2021 1219p	chrisap@pacificlawyers.law	Christine Pangelinan	Berman Law Firm
and the same of th	1 120p	12/7/2021 120p	robertp@jwsguam.com	t/Robert Perez	JWS Refrigeration & A/C Lt/Robert Perez
JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment					
RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD	1 1211p	12/7/2021 1211p	mike@tonysworkshop.com	Michael Ecalnea	Tony's Workshop
Re: UOG IFB 821-17 : Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD	1 1146a	12/7/2021 1146a	guampacific@gmail.com	Sedfrey Lingsangan	GPE, INC
RE: UOG IFB 821-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD	12/7/2021 1129a	12/7/202	anthonys@jwsguam.com	Anthony Scragg	JWS Refrigeration & A/C Lt/Anthony Scragg
UOG IFB B21-17 : Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD	12/7/2021 1118a	12/7/202	uog.bids@triton.uog.edu	UOG PROCUREMENT	
Fw: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD	12/7/2021 1008a	12/7/202	uog.bids@triton.uoq.edu	UOG PROCUREMENT	
RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD	12/7/2021 957a	12/7/202	tonysworkshop@teleguam.net	Julie Sugatan	Tony's Workshop
RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD	12/7/2021 738a	12/7/20:	mike@tonysworkshop.com	Michael Ecalnea	Tony's Workshop
COMMONICATION LOG FOX IFB OR KEY	TOTAL	COLVAIN			
TIME TWO ENGINEERS OF THE STATE	VIINIV	COM			

### GPE, INC JWS Refrigeration & A/C Lt Robert Perez JB Modern Tech All Business Enterprise JB Modern Tech JWS Refrigeration & A/C Lt Robert Perez Sedfrey Lingsangan UOG PROCUREMENT UOG PROCUREMENT Gene Bangayan Nelia Bangayan Gene Bangayan quampacific@qmail.com uoq.bids@triton.uoq.edu uoq.bids@triton.uoq.edu robertp@iwsquam.com nbangayan@jbmodemtech.com GeneBangayan@jbmoderntech. GeneBangayan@jbmodemtech.c robertp@jwsguam.com COMMUNICATIRANUSDERIGEARATA A CHARAGE - Protest For UOG IFB B21-17: Purchasing of HVAC 12/10/2021 1124a 12/10/2021 1114a 12/10/2021 946a 12/10/2021 909a 12/10/2021 1059a 12/10/2021 439p 12/10/2021 1019a 12/10/2021 847a UNIVERSITY OF GUAM Re: Notice of Protest, Bid 21-17 Re: Notice of Protest, Bid 21-17 Re: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment Equipment FW: EMAIL FOIA : BID IFB B21-17 RE. JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC RE: UOG Bid Result - IFB B21-17 RE: BID IFB B21-17 Equipment

### Copies of Communication

# Re: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Tue 9/21/2021 3:33 PM

<rachelfc@triton.uog.edu>; Cynthia Guerrero <cguerrero@triton.uog.edu>; Leah Aquino <leah@triton.uog.edu>; MERLITA AZICATE <mazicate@triton.uog.edu>; UOG To: Carmelita Blas <cgblas@triton.uog.edu>; Christine Mabayag <ckamm@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>; Dr. Anita Enriquez <abe@triton.uog.edu>; Randall V. Wiegand <wiegandr@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Rachel F. Cubacub Procurement Bids <uog.bids@triton.uog.edu>; June Calvo <jcalvo@triton.uog.edu>

Thank you Carm.

From: Carmelita Blas <cgblas@triton.uog.edu>

Sent: Tuesday, September 21, 2021 1:44 PM

Randall V. Wiegand <wiegandr@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Rachel F. Cubacub <rachelfc@triton.uog.edu>; Cynthia Guerrero <cguerrero@triton.uog.edu>; Leah Aquino <leah@triton.uog.edu>; MERLITA AZICATE To: Christine Mabayag <ckamm@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>; Dr. Anita Enriquez <abe@triton.uog.edu>; <mazicate@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>; June Calvo <jcalvo@triton.uog.edu> Subject: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Thank you, Chris!! Forwarding to all parties involved for your records and further processing at Procurement.

Carm

From: Christine Mabayag <ckamm@triton.uog.edu>

Sent: Tuesday, September 21, 2021 11:37 AM

To: Carmelita Blas <cgblas@triton.uog.edu>

Subject: Re: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Attached is the fully executed RFP.

Si Yu'os ma'ase',

Chris Kamminga Mabayag Executive Secretary



ckamm@triton.uog.edu Tel: (671) 735-2990/1 Office of the President Fax: (671) 734-2296 nttps://www.uog.edu The University of Guam is an equal opportunity provider and employer.

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From: Carmelita Blas <cgblas@triton.uog.edu>

Sent: Monday, September 20, 2021 05:15 PM

To: Christine Mabayag <ckamm@triton.uog.edu>

Subject: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Hi Chris,

Please forward to the BOR Chair and Treasurer for approval signatures on this RFP bid valued at \$647,574 and send back to me for distribution to all parties involved.

Thank you,

Carm

Si Yu'os ma'åse',

Administrative Officer **CARMELITA BLAS** 



# **ADMINISTRATION AND FINANCE**

Office: +1 (671) 735-2900 cgblas@triton.uog.edu https://www.uog.edu/administration/administration-finance/

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## Re: UOG Bid No. B21-17

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Tue 10/26/2021 1:52 PM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>; Gumataotao, Emily <eggumataotao@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Håfa Adai Mr. Scragg,

procurement protocol. Kindly email your questions or concerns to Ms. Emily Gumataotao at eggumataotao@triton,uog.edu. She will Thank you for your interest in our Bid. As you know, we are in the middle of a procurement and thus have to follow our ensure your questions are answered.

From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Tuesday, October 26, 2021 1:45 PM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>

Subject: UOG Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good Afternoon Mr. Leon Guerrero, I work for JWS Refrigeration & A/C Guam, and wanted to reach out to you today in regards to a recent bid opportunity for HVAC equipment purchases put out by University of Guam's FMS Department.

Could you help point me in the right direction of who I can contact in regards to questions/RFIs' regarding the bid's scope of work, equipment specifications, and the report by Amorient. I would greatly appreciate getting in touch with someone by phone or email this week, so our team can began working on our bid submission asap for you guys. Looking forward to hearing back soon.

Regards,

Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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# UOG IFB B21-17 (Purchasing of HVAC Equipment)

UOG Procurement Bids <uog.bids@triton.uog.edu>

To: alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com> Cc: Procurement Office

Håfa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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# RE: UOG IFB B21-17 (Purchasing of HVAC Equipment)

Arthur C. Adriano <arthur.adriano@medpharmusa.net>

Mon 10/25/2021 5:19 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Ramil llagan <ramil.ilagan@medpharmusa.net>; Shiela Duay <shiela.duay@medpharmusa.net>; Joshua Soto <joshua.soto@medpharmusa.net>; Jon Bigornia <jon.bigornia@medpharmusa.net>; Mychael Sheen Peralta <mychael.peralta@medpharmusa.net>; Ruth Feril <ruth.feril@medpharmusa.net>; Jose Marimla <jose.marimla@medpharmusa.net>; Procurement Office procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Thank you for providing the ecopy of the subject IFB.

With Best Regards,

Arthur C. Adriano | Medical Equipment Sales Specialist | MedPharm Group of Companies |

138 Kayen Chando St., Dededo, Guam 96929 USA | Mailing: P.O. Box 11864, Tamuning, Guam 96931 USA | Tel: +1 671.632.6000 ext. 710 | Fax: +1 671.632.9000 | E-mail: arthur.adriano@medpharmusa.net| Website: http://www.medpharmusa.net/ CONFIDENTIALITY: This message and attachment(s) are intended only for the use of their recipient(s) and may contain confidential information belonging to MedPharm. Any unauthorized review, use, disclosure or distribution of this email and attachment is prohibited. If you are not the intended recipient, please notify the sender immediately and delete this message along with any attachment.

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, October 25, 2021 8:19 AM

To: Arthur C. Adriano <arthur.adriano@medpharmusa.net>

Cc: Ramil Ilagan <ramil.ilagan@medpharmusa.net>; Shiela Duay <shiela.duay@medpharmusa.net>; Joshua Soto <joshua.soto@medpharmusa.net>; Jon Bigornia <jon.bigornia@medpharmusa.net>; Mychael Sheen Peralta <mychael.peralta@medpharmusa.net>; Ruth Feril <ruth.feril@medpharmusa.net>; Jose Marimla <jose.marimla@medpharmusa.net>; Procurement Office <procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17 (Purchasing of HVAC Equipment)

Hafa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

	UDG Procurement
	Office: 671-735-2925
	Fax: 671-735-3010
	<u>uog.bids@triton.uog.edu</u>
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From: Arthur C. Adriano <arthur.adriano@medpharmusa.net>

Sent: Monday, October 25, 2021 9:30 AM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Ramil Ilagan <ramil.ilagan@medpharmusa.net>; Shiela Duay <shiela.duay@medpharmusa.net>; Joshua Soto <joshua.soto@medpharmusa.net>; Jon Bigornia <jon.bigornia@medpharmusa.net>; Mychael Sheen Peralta <mychael.peralta@medpharmusa.net>; Ruth Feril <ruth.feril@medpharmusa.net>; Jose Marimla <jose.marimla@medpharmusa.net>; Procurement Office <procurementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu> Subject: RE: UOG IFB B21-17 (Purchasing of HVAC Equipment)

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear Emily,

I was able to send in my request and got the attached response. Hoping to get the PDF file the earliest so we can evaluate and make a determination to participate and pay the Non-Refundable Fee. Thank you, keep safe.

### With Best Regards,

138 Kayen Chando St., Dededo, Guam 96929 USA | Mailing: P.O. Box 11864, Tamuning, Guam 96931 USA | Tel: +1 671.632.6000 ext. 710 | Fax: +1 Arthur C. Adriano | Medical Equipment Sales Specialist | MedPharm Group of Companies |

671.632.9000 | E-mail: arthur.adriano@medpharmusa.net | Website: http://www.medpharmusa.net/

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From: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Sent: Monday, October 25, 2021 7:18 AM

To: Arthur C. Adriano <arthur.adriano@medpharmusa.net>

Cc: Ramil Ilagan <ramil.ilagan@medpharmusa.net>; Shiela Duay <shiela.duay@medpharmusa.net>; Joshua Soto <joshua.soto@medpharmusa.net>; Jon Bigornia <jon.bigornia@medpharmusa.net>; Mychael Sheen Peralta <mychael.peralta@medpharmusa.net>; Ruth Feril <ruth.feril@medpharmusa.net>; Jose Marimla <jose.marimla@medpharmusa.net>; Procurement Office <procurementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu> Subject: RE: UOG IFB B21-17 (Purchasing of HVAC Equipment)

Håfa Adai & Good Morning,

Please click on GREEN button that states [Click here to request for OPEN IFB/RFP Documents] (see screenshot), right below "Important Notes" on our website to request for bid package. Thank you!

# Procurement Office

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The University of Guam Procurement Office purchases most goods and services in its course of business that support educational, research, and organizational, requirements for our students, faculty and staff, UOG references methods of procurement in accordance with all applicable Government of Guam Procurement Laws & UOG Requisions, The office is responsible in preparing Invitation for Bids. Request for Proposals, and Request for Quotations.

Below is the list of the bids and proposals issued for the University as advertised in PON andfor POST, interested parties may request to obtain an IFBMFP package by clicking button below to request for IFBMRFP documents.

### Important Notes:

- A non-refundable fee of \$25.00 is required ONLY if you wish to submit a bid or proposal. This fee may be paid at the Coshier Services located at the UOG Administration
  Building Mon-Fri from 8 am 4 pm. Pay by phone is also available by calling 735-2923/45/46, please reference Bid number and Bid title when making payment.
   Requesting an ifFAFP package automatically registers your information with the UOG Procurement Office. Please ensure your information entered on form is accurate so ALL notices regarding any changes or updates to the IFB/RFP is received, UOG will not be liable for failure to provide notice to any party whose information was not entered accurately on form.
  - All correspondences regarding any IFB/RFP should be addressed to uog.bids@triton.uog.edu.

Report of	entral section of the	Date Insured/Posters	Submission	the form of the part of
UOG IFB 821-	PURCHASING OF HVAC FOUIPMENT	October 22, 2021	November 22. 2021	OPEN
UOG RFP NO. P21-07	INTERIM CHIEF INFORMATION DEFICER SERVICES	September 24. 2021	October 22. 2021	Z
UOG RFP NO. P21-06	COMPENSATION STUDY FOR PTFEF EMPLOYEE CLASS	September 22, 2021	October 13, 2021	CLOSED
UOG RFP NO. P21-01	ARCHITECTUAL & ENGINEERING (BASIC) SERVICES "Amendment No. 1" "Amendment No. 1"	September 3. 2023	Nevember 5, 2021	OPEN
UOG RFP NO. P21-05	PACIFIC ISLANDS, SMALL BUSINESS DEVELOPMENT CETNER NETWORK IPUSBOCN), PROFESSIONAL SERVICES	July 30, 2021	August 13. 2021	CLOSED

Si Yu'os ma'ase' & Have a nice day!,

SUPPLY MANAGEMENT ADMINISTRATOR PROCUREMENT | ADMIN & FINANCE Procurementoffice@triton.uog.edu Emily G. Gumataotao egg<u>umataotao@triton.uog.edu</u> Office: 671-735-2925 Fax: 671-735-3010 Respectfully,

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From: Arthur C. Adriano [mailto:arthur.adriano@medpharmusa.net]

Sent: Monday, October 25, 2021 9:06 AM

To: Procurement Office curementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Ramil Ilagan <ramil.ilagan@medpharmusa.net>; Shiela Duay <shiela.duay@medpharmusa.net>; Joshua Soto <joshua.soto@medpharmusa.net>; Jon Bigornia sjon.bigornia@medpharmusa.net>; Mychael Sheen Peralta <mychael.peralta@medpharmusa.net>; Ruth Feril <ruth.feril@medpharmusa.net>; Jose Marimla <jose.marimla@medpharmusa.net>

Subject: UOG IFB 821-17 (Purchasing of HVAC Equipment)

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement Office,

This is to request access to download PDF File of the subject IFB. I visited your web site and was able to find only the attached bid ads.

Looking forward to your earliest response. Thank you, keep safe.

With Best Regards,

Arthur C. Adriano | Medical Equipment Sales Specialist | MedPharm Group of Companies |

138 Kayen Chando St., Dededo, Guam 96929 USA | Mailing: P.O. Box 11864, Tamuning, Guam 96931 USA | Tel: +1 671.632.6000 ext. 710 | Fax: +1 671.632.9000 | E-mail: arthur.adriano@medpharmusa.net | Website: http://www.medpharmusa.net/ CONFIDENTIALITY: This message and attachment(s) are intended only for the use of their recipient(s) and may contain confidential information belonging to MedPharm. Any unauthorized review, use, disclosure or distribution of this email and attachment is prohibited. If you are not the intended recipient, please notify the sender immediately and delete this message along with any attachment.

## Re: UOG Bid No. B21-17

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Tue 10/26/2021 1:52 PM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>; Gumataotao, Emily <eggumataotao@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu> Håfa Adai Mr. Scragg,

procurement protocol. Kindly email your questions or concerns to Ms. Emily Gumataotao at eggumataotao@triton,uog.edu. She will Thank you for your interest in our Bid. As you know, we are in the middle of a procurement and thus have to follow our ensure your questions are answered.

From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Tuesday, October 26, 2021 1:45 PM

To: Leon Guerrero, Glenn <glennig@triton.uog.edu>

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>

Subject: UOG Bid No. 821-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good Afternoon Mr. Leon Guerrero, I work for JWS Refrigeration & A/C Guam, and wanted to reach out to you today in regards to a recent bid opportunity for HVAC equipment purchases put out by University of Guam's FMS Department.

Could you help point me in the right direction of who I can contact in regards to questions/RFIs' regarding the bid's scope of work, equipment specifications, and the report by Amorient. l would greatly appreciate getting in touch with someone by phone or email this week, so our team can began working on our bid submission asap for you guys. Looking forward to hearing back soon.

Regards,

Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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## RE: Site visit / pre bid

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Wed 10/27/2021 9:43 AM

fo: Anthony Scragg <anthonys@jwsguam.com>

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Hafa Adai & Good Morning,

There will be an amendment issued today to all bidders before COB today.

Also, do not forget to address all questions/request for information to the bids email at uog.bids@triton.uog.edu. You may include me, but all correspondence for active bids should be sent directly to the UOG bids email. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

## Emily G. Gumataotao

SUPPLY MANAGEMENT ADMINISTRATOR

PROCUREMENT | ADMIN & FINANCE

Office: 671-735-2925

Fax: 671-735-3010

eggumataotao@triton.uog.edu

[mailto:gumataotaoemilyg@triton.uog.edu%OdProcurementoffice@triton.uog.edu]Procurementoffice@triton.uog.edu

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fo: Gumataotao, Emily <eggumataotao@triton.uog.edu> From: Anthony Scragg [mailto:anthonys@jwsguam.com] Sent: Wednesday, October 27, 2021 8:46 AM

Cc: rogerj@jwsguam.com Subject: Site visit / pre bid

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good morning Ms. Emily Gumataotao,

I was wondering if there would be a pre bid and/or site visit for the recent HVAC equipment Bid put out, i.e. UOG Bid No. B21-17.

If so could you please provide me with a time/date prior, so our team at JWS can schedule accordingly. Thank you.

Sincerely,

## Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line : 671-588-5981 Fax: 671-649-0053

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

Joeann Pangelinan <joeann@mjmetc.com>

Fri 10/29/2021 5:36 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Kindly see attached, thanks!

Stay safe.

On Fri, Oct 29, 2021 at 2:28 PM Joeann Pangelinan <<u>joeann@mjmetc.com</u>> wrote:

Received notice of Amendment.

Thank you

On Fri, Oct 29, 2021 at 10:57 AM UOG Procurement Bids < uog bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Signature Logo

Respectfully,

**UDG Procurement**Office: 671-735-2925

Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

## UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 10/29/2021 10:57 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com <smcauliffe@triton.uog.edu>

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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UNBETSEDAT CUÁHAN

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Mail - UOG Procurement Bids - Outlook

12/16/21, 9:41 AM

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

GPE INC <guampacific@gmail.com>

Fri 10/29/2021 11:11 AM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledged.

On Fri, 29 Oct 2021 at 10:57, UOG Procurement Bids < uog bids@triton.uog.edu> wrote: Hafa Adai & Good Morning, Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### UDG Procurement

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

GUAL UNIVERSITY OF TE UD GUALDEN CUMBETSEDÄT GUALDEN

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDK1ZDViZmY4MwAQAMyuOgVa2mRAgNuiQf4deBw%3D

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# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 1

12/16/21, 9:45 AM

Teddy Garcia <teddygarcia@jrngu.com>

Fri 10/29/2021 11:34 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office cprocurementoffice@triton.uog.edu>

Cc: info@jrngu.com <info@jrngu.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai!

Attached please find receipt of amendment #1, for your file  $oldsymbol{lpha}$  reference.

Si Yu'us ma'åse'and best regards,

Teddy Glenn Roman Garcia

Project Mechanical Engineer / HVACR Technical & Estimation Department

JRN Air Conditioning & Refrigeration

ота та септерато в пентве Сотрапу Е-тай : <u>info@jrngu.com</u>

Personal E-mail: teddygarcia@jrngu.com

Tel# :(671) 649-8120/21

7/07/049-049-01/0/2/

Fax# :(671) 649-5737

Mobile #:671-898-4486

From: UOG Procurement Bids [mailto:uog.bids@triton.uog.edu]

Sent: Friday, October 29, 2021 10:58 AM

To: Procurement Office

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

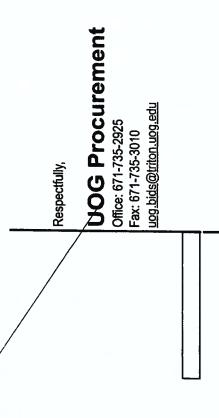
Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!





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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT

Anthony Scragg <anthonys@jwsguam.com>

Fri 10/29/2021 11:56 AM

Cc: rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledgement receipt of Amendment 1 for UOG IFB B21-17. Please see signed attachment.

Anthony R. Scragg

Regards,

Service Department

JWS Refrigeration & A/C Ltd.

Email: authonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, October 29, 2021 10:58 AM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature Logo

Оffice: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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Mail - UOG Procurement Bids - Outlook

12/16/21, 9:46 AM

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12/16/21, 9:47 AM

# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

Deo Lagman <DLagman@jbmoderntech.com>

Fri 10/29/2021 2:24 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

Confirming receipt form J&B Modern Tech.

Kindly see attached file.

Regards,

Deo Lagman

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, October 29, 2021 10:58 AM

To: Procurement Office

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	UOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog bids@friton uog edu
	Signature	Logo		

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Joeann Pangelinan <joeann@mjmetc.com>

Fri 10/29/2021 2:28 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received notice of Amendment.

Thank you

On Fri, Oct 29, 2021 at 10:57 AM UOG Procurement Bids < uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** Office: 671-735-2925

Signature

uog.bids@triton.uog.edu Fax: 671-735-3010

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Mail - UOG Procurement Bids - Outlook

12/16/21, 9:47 AM

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Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 1

Joeann Pangelinan <joeann@mjmetc.com>

Fri 10/29/2021 5:36 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc. Procurement Office cc. Procurement Office cc.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Kindly see attached, thanks!

Stay safe.

On Fri, Oct 29, 2021 at 2:28 PM Joeann Pangelinan < joeann@mjmetc.com> wrote:

Received notice of Amendment.

Thank you

On Fri, Oct 29, 2021 at 10:57 AM UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 1.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Signature Logo

Respectfully,

**VOG Procurement** 

Office: 671-735-2925

12/16/21, 9:38 AM

Fax: 671-735-3010

uog.bids@triton.uog.edu

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Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

12/16/21, 9:48 AM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Tue 10/26/2021 3:57 PM

To: GPE INC <guampacific@gmail.com>

Cc: Procurement Office curementoffice@triton.uog.edu>

Håfa Adai & Good Afternoon,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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Re: UOG IFB B21-17: Purchasing of HVAC Equipment

GPE INC <guampacific@gmail.com>

Tue 10/26/2021 4:06 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Well received with thanks.

On Tue, 26 Oct 2021 at 15:57, UOG Procurement Bids < uog bids@triton.uog.edu> wrote:

Hafa Adai & Good Afternoon,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** Office: 671-735-2925

Fax: 671-735-3010 uog.bids@triton.uog.edu

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12/16/21, 9:59 AM

## **UOG IFB B21-17: Purchasing of HVAC Equipment**

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 10/29/2021 10:51 AM

To: joeann@mjmetc.com <joeann@mjmetc.com>

Håfa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 \u09.bids@triton.u0g.edu The University of Guam is an equal opportunity provider and employer.

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### UOG IFB B21-17: Purchasing of HVAC Equipment

12/16/21, 10:01 AM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 10/29/2021 10:52 AM

To: arnel.francisco@carrier.com <arnel.francisco@carrier.com>

Cc: Procurement Office curementoffice@triton.uog.edu>

Håfa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment

Joeann Pangelinan <joeann@mjmetc.com>

Fri 10/29/2021 2:28 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received with thanks!

#### Stay safe

On Fri, Oct 29, 2021 at 10:51 AM UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Signature UD

Respectfully,

UOG Procurement

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc,com

## Re: UOG IFB B21-17: Purchasing of HVAC Equipment

Joeann Pangelinan <joeann@mjmetc.com>

Fri 10/29/2021 5:48 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office c c procurementoffice@triton.uog.edu>; Caroline Delos Reyes <caroline@mjmetc.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hello,

May I please get more information for the attached? Kindly clarify if it is the ton per unit and column (ton) is the total tonnage.

Thank you

On Fri, Oct 29, 2021 at 2:27 PM Joeann Pangelinan <joeann@mjmetc.com> wrote:

Received with thanks!

Stay safe

On Fri, Oct 29, 2021 at 10:51 AM UOG Procurement Bids < uog bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning,

As requested, see attached bid package.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAlvY3rt1Xb9DqHZVrKzxyjM%3D

Mail - UOG Procurement Bids - Outlook

12/16/21, 10:01 AM

Signature Logo

Respectfully, UOG Procurement

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

Tamuning, Guam 96913

joeann@mjmetc.com

Respectfully,

Joeann Pangelinan

MJM International Corporation

181 E. Harmon Industrial Park Rd. STE C

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAlvY3rt1Xb9DqHZVrKzxyjM%3D

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAIvY3r1Xb9DqHZVrKzxyjM%3D

12/16/21, 10:01 AM

Mail - UOG Procurement Bids - Outlook

Tamuning, Guam 96913

joeann@mjmetc.com

### **UOG IFB No. B21-17**

Caroline Delos Reyes <caroline@mjmetc.com>

Mon 11/1/2021 4:20 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hello,

Please see attached to acknowledge receipt of Amendment 1 and Amendment 2 for UOG IFB No. B21-17.

Thank you.

### Caroline Delos Reyes

MJM (Guam) International Corporation

181 E. Harmon Industrial Park Rd Suite C

Tamuning, GU 96913

Office: (671) 646-4394 | Fax: (671) 649-5638

Email: caroline@mjmetc.com

# JWS Signed Amendment 2 and Updated Distribution Registry Form

12/16/21, 10:03 AM

Anthony Scragg <anthonys@jwsguam.com>

Tue 11/2/2021 12:24 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Сс: rogerj@jwsguam.com <rogerj@jwsguam.com>; Answer James <ajames@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good Afternoon,

Just wanted to confirm receival of Amendment #2 for Bid No. B21-17. Attached is a signed form acknowledging the amendment and it's details.

In addition to this I also attached a newly filled out UOG Bidders Distribution form UOG bid No. B21-17. Please confirm receipt of this updated form as it includes new contact information from JWS Refrigeration and A/C Ltd.

Best Regards,

### Anthony R. Scragg

Service Department

Email: anthonys@jwsguam.com JWS Refrigeration & A/C Ltd.

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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12/16/21, 10:04 AM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 10/29/2021 4:45 PM

To: Procurement Office < procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; <annel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; amel.francisco@carrier.com <smcauliffe@triton.uog.edu>

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

INIBETSEDĂT CUĂHAN

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# Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 2

GPE INC <guampacific@gmail.com>

Fri 10/29/2021 4:59 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office < procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received, thank you.

On Fri, 29 Oct 2021 at 16:45, UOG Procurement Bids < uog.bids@triton.uog.edu> wrote: Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG2Fg7NB7rlLpKfZdXJcu58%3D

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Guam Pacific Enterprise, Inc. Tel: (671) 649-6994/7/8



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R21-1764

# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

Deo Lagman < DLagman@jbmoderntech.com >

Fri 10/29/2021 5:02 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

Confirming receipt form J&B Modern Tech.

Kindly see attached file

Kindly see attached file.

Regards, Deo Lagman

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, October 29, 2021 4:45 PM

To: Procurement Office <procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG2Fg7NB7rlLpKfZdXjcu58%3D

Si Yu'os ma'ase' & Have a nice day!,

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

John Ryan <jtryan@me.com>

Fri 10/29/2021 6:09 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank Emily.

Sent from my iPhone

On Oct 29, 2021, at 4:45 PM, UOG Procurement Bids <uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Signature

UOG Procurement

Office: 671-735-2925 Fax: 671-735-3010

<u>uog.bids@triton.uog.edu</u>

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<B21-17\_AMEND 2.pdf>

# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

John Ryan <jtryan@me.com>

Fri 10/29/2021 6:10 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you

Sent from my iPhone

On Oct 29, 2021, at 6:09 PM, John Ryan <jtryan@me.com> wrote:

Thank Emily.

Sent from my iPhone

On Oct 29, 2021, at 4:45 PM, UOG Procurement Bids <uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYiNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG2Fg7NB7rlLpKfZdXjcu58%3D

Logo Signature

**UDG Procurement** 

uog.bids@triton.uog.edu Fax: 671-735-3010 Office: 671-735-2925

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<B21-17\_AMEND 2.pdf>

## RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

Teddy Garcia <teddygarcia@jrngu.com>

Thu 11/4/2021 9:15 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office <procurementoffice@triton.uog.edu>

Cc: info@jrngu.com <info@jrngu.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Payment Receipt #196671 Please find attached Payment receipt for the Bid Packet and the receipt of the amendment #2, for your file and reference.

Si Yu'us ma'åse'and best regards

Teddy Glenn Roman Garcia

Project Mechanical Engineer / HVACR Technical & Estimation Department



JRN Air Conditioning & Refrigeration

Personal E-mail: teddygarcia@jrngu.com Company E-mail: info@jrngu.com

:(671) 649-5737 :(671)649-8120/21

Mobile #:671-898-4486

From: UOG Procurement Bids [mailto:uog.bids@triton.uog.edu]

**Sent:** Friday, October 29, 2021 4:45 PM

To: Procurement Office

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 2

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 2.

Please acknowledge receipt.

Thank you & Stay safe!

1/2

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Logo Signature

**UOG Procurement** 

Fax: 671-735-3010 Office: 671-735-2925

uog.bids@triton.uog.edu

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#### RE: UOG BID NO B21-17

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Thu 11/4/2021 5:03 PM

To: Chuck Sanchez <chuck.deesoniis@gmail.com>

Cc: John Leon Guerrero < johnlg@triton.uog.edu >; UOG Procurement Bids < uog.bids@triton.uog.edu >; Procurement Office < procurementoffice@triton.uog.edu >

Hi Chuck,

As discussed; please request info on our procurement site and send email to uog.bids@triton.uog.edu

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### Emily G. Gumataotao

SUPPLY MANAGEMENT ADMINISTRATOR

PROCUREMENT | ADMIN & FINANCE

Fax: 671-735-3010

Office: 671-735-2925

eggumataotao@triton.uog.edu

[mailto:gumataotaoemilyg@triton.uog.edu%0dProcurementoffice@triton.uog.edu]Procurementoffice@triton.uog.edu

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From: Chuck Sanchez [mailto:chuck.deesoniis@gmail.com]

Sent: Thursday, November 4, 2021 12:55 PM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Leon Guerrero < johnlg@triton.uog.edu>

Subject: Re: UOG BID NO B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Buenas yan Hafa Adai,

Hope all is well with familia. We are requesting to have our Hvac Tech and Electrician schedule a final walk thru next week 11/10 10-11am

Please kindly advise as well as any added fees for packets from yesterdays pre bid meeting

Thank you for your time and consideration.

Be well and safe.

Godspeed8.

On Thu, Nov 4, 2021, 10:27 AM Chuck Sanchez < chuck.deesoniis@gmail.com > wrote:

Buenas yan Hafa Adai,

Hope all is well with familia. Is a fee implemented for bid packets? II attended this morning's walk through and signed in.

Please kindly advise.

Thank you for your time. Be well and safe.

Godspeed8.

**Chuck Sanchez** 

Sales and Marketing Manager



220 E. Harmon Industrial Park Road, #81, C

Tamuning, GU. 96913 C: (671) 747-1139

T: (671) 647-3736

F: (671) 648-6666

W: www.deesoniis.com

dso\_Deesonii's new ACs (60s).mp4

https://youtu.be/Nsm1Zcd-MLY

https://youtu.be/xCl9hsi7Bq

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#### RFI UOG BID No. B21-17

Camille Zapanta <camille@abilitysolutionsllc.biz>

Wed 11/10/2021 10:02 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

May I inquire when the deadline is to deliver the equipments?

Camille Zapanta Tel: (671) 989-3630

Email: camille@abilitysolutionsllc.biz



#### Re: RFI UOG B21-17

UOG Procurement Bids <uog.bids@triton.uog.edu>

Wed 11/10/2021 10:20 AM

To: Camille Zapanta <camille@abilitysolutionsllc.biz>

Hello Camille,

Was there a reason another request is needed for the bid package? Nacia had requested and we sent the bid package as of

As stated at the Pre-Bid conference, last day for questions/clarifications is on November 12, 2021.

We are in receipt of your questions and will respond accordingly.

Thank you for your patience!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: Camille Zapanta < camille@abilitysolutionsllc.biz>

Sent: Tuesday, November 9, 2021 3:14 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Subject: RFI UOG B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Kindly see the following inquires regarding UOG IFB No. B21-17.

- 1. When is the deadline to submit RFIs?
- 2. Can you provide a copy of the transcript for the sign-in on inspection day?

Regards, Camille Zapanta

**Ability Solutions LLC** 

Tel: (671) 989-3630

Email: camille@abilitysolutionsllc.biz

#### IFB No. B21-17

### GPE INC <guampacific@gmail.com>

Thu 11/11/2021 4:59 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hi Ms. Emily,

Please see attached acknowledgement.

Thank you,
Sedfrey M. Linsangan
Guam Pacific Enterprise, Inc.
Tel: (671) 649-6994/7/8



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## Re: B21-17: RFI/RFC Last day today

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 11/15/2021 4:43 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Cc: Procurement Office crementoffice@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>

Hi John/Glenn,

Any update on responses so I can send out? Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

UOG Procurement

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 15, 2021 10:12 AM

To: John Leon Guerrero < johnlg@triton.uog.edu>; Leon Guerrero, Glenn < glennlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>

Subject: Re: B21-17 : RFI/RFC Last day today

Hi Guys,

otherwise you can forward me the responses and I will input. Thanks! See attached for the questions & answers I will send out by COB today. If you want you can plug into respective sections,

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UDG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: John Leon Guerrero < johnlg@triton.uog.edu>

Sent: Saturday, November 13, 2021 2:25 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Subject: Re: B21-17: RFI/RFC Last day today

Noted...

#### Get Outlook for Android

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 12, 2021 3:00:21 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Cc: Procurement Office <procurementoffice@triton.uog.edu>

Subject: B21-17 : RFI/RFC Last day today

Hi John/Glenn,

Last day for questions today. Can I get the responses please. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### UDG Procurement

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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## Re: Follow up on RFI for UOG Bid B21-17

## UOG Procurement Bids <uog.bids@triton.uog.edu>

Tue 11/16/2021 9:32 AM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer James <a href="mailto:<a href="mailt

#### Håfa Adai & Good Morning Anthony,

multiple vendors, once completed we will issue an amendment, most likely before COB today. Thank you! We appreciate your patience as we work with key personnel to answer all RFI's/RFC's submitted as of Friday November 12, 2021. There were several from

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### UOG Procurement

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Tuesday, November 16, 2021 7:38 AM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer

James <ajames@jwsguam.com>

Subject: Follow up on RFI for UOG Bid B21-17

Good Morning, [EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

status of the bid and if there is any information regarding feedback to the RFIs. Looking forward to hearing back. was going to be extended? I know the current bid submission date is Nov. 22<sup>nd</sup>, which is a little less than a week away. Please let me know the current I just wanted to follow up on the RFIs submitted last week. Still haven't heard any feedback regarding the RFIs and just wanted to see if perhaps the bid

#### Sincerelly

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554 Direct Line: 671-588-5981

Fax: 671-649-0053

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# RE: [External]UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT - Carrier Guam request for information RFI

Llarenas, Bernard < Bernard.Llarenas 2@carrier.com >

Thu 11/18/2021 7:47 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Camacho, Rochelle <rochelle.camacho2@carrier.com>; Viray, Armando <Armando.Viray@Carrier.com> Cc: Procurement Office < procurementoffice@triton.uog.edu>; Francisco, Arnel < Arnel.Francisco@Carrier.com>; Aguigui, Leonard < Leonard.Aguigui@Carrier.com>;

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Further questions please -

- Will amendment RFI responses be emailed to each individual party who attended the Nov.3 pre-bid/site visit? If emailing the amendment RFI responses, kindly please add me to the list as a recipient.
- Please advise approximate posting of amendment RFI responses, as scheduled bidding is soon, November 22; will need some time to prepare equipment selections and proposal based on the RFI responses.

Sincerest Thank You.
BERNARD LLARENAS

Carrier Guam Inc. P.O.Box 23847

Barrigada, Guam 96921 Tel: (671) 647-9288

Cell: (671) 898-1918 Fax: (671) 646-0965

Bernard, Llarenas 2@carrier, com



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From: UOG Procurement Bids <uog.bids@triton.uog.edu> Sent: Thursday, November 18, 2021 12:32 AM

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYINDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAKYOTvM%2F%2F0FrhSXYgBYppys%3D

To: Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

<Leonard.Aguigui@Carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Viray, Armando <Armando.Viray@Carrier.com> Cc: Procurement Office curementoffice@triton.uog.edu>; Francisco, Arnel <Arnel.Francisco@Carrier.com>; Aguigui, Leonard

Subject: Re: [External]UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT - Carrier Guam request for information RFI

Håfa Adai Bernard,

of your questions if not all. In the event the deadline is extended we will accept and answer future questions/clarifications. Thank issuing an amendment for all questions asked by said date. I believe the responses on the amendment will be able to answer most Unfortunately the last day for questions/clarifications was Friday, November 12, 2021. However, we are still in the process of

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

UDG Procurement

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYINDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAKYOTvM%2F%2F0FrhSXYgBYppys%3D

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From: Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

Sent: Wednesday, November 17, 2021 3:54 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

<Leonard.Aguigui@Carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Viray, Armando <Armando.Viray@Carrier.com> Cc: Procurement Office cc: Procurement Office procurementoffice@triton.uog.edu>; Francisco, Arnel <Arnel.Francisco@Carrier.com>; Aguigui, Leonard

Subject: RE: [External]UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT - Carrier Guam request for information RFI

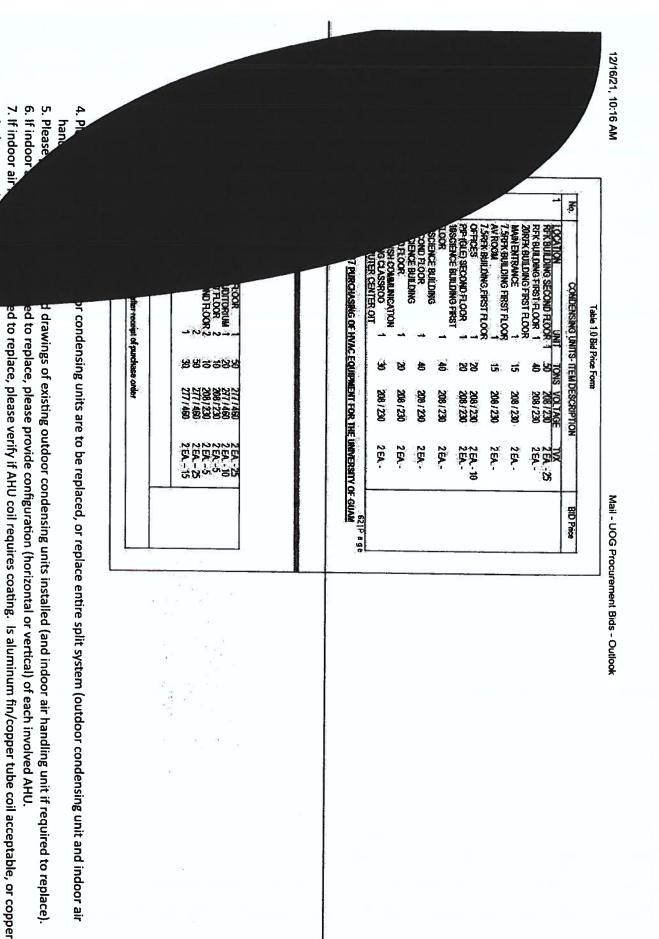
[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement

Kind request for information RFI please regarding UOG IFB B21-17 Purchasing of HVAC Equipment...

#### RFI please:

- 1. Please provide list of Contractors and their contact information who attended the November 3, 10AM PRE-BID conference and site visit.
- 2. Please provide complete equipment schedule containing criteria (cooling capacity/tonnage, supply air flow, external static pressure, voltage/phase, designated area served/location name, etc.) of equipment to replace
- 3. Please confirm Bid Price Form (picture below) containing "CONDENSING UNITS" to replace, and clarify "TVX 2 EA" as listed



8. Per Price Bid Form

RFK BUILDING S

**FLOOR** 

confirm locations bulleted below are separated/written properly,

RFK BUILDING FIRST FLOOR

fin/copper tube

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAKYOTvM%2F%2F0FrhSXYgBYppys%3D

- 7.5RFK BUILDING FIRST FLOOR AV ROOM
- 7.5RFK BUILDING FIRST FLOOR OFFICES
- PIP (GLE) SECOND FLOOR
- **10SCIENCE BUILDING FIRST FLOOR**
- **20SCIENCE BUILDING SECOND FLOOR**
- **20SCIENCE BUILDING THIRD FLOOR**
- 15COMPUTER CENTER OIT BUILDING FIRST FLOOR 10EGLISH COMMUNICATION BUILDING CLASSROOM
- LECTURE HALL AUDITORIUM
- MARINE LAB FIRST FLOOR
- MARINE LAB SECOND FLOOR
- **HSS BUILDING**
- HSS BUILDING.
- 9. Regarding Marine Lab equipment replacement, please confirm existing equipment to be Variable Refrigerant Flow (VRF) type. If VRF systems to be replaced at Marine Lab, please provide equipment schedule, capacities of indoor and outdoor units, drawings/layout, etc.
- 10. Regarding Marine Lab, please verify if VRF replacement equipment must be Buy-American Act compliant.
- 11. Please verify the existing quantities and tonnage of equipment to replace located at Lecture Hall Auditorium.
- 12. Please verify the existing quantities and tonnage of equipment to replace located at HSS Building.
- 13. Please verify if bid date of November 22, 2021 has been extended or remains unchanged

Hoping for RFI response soonest.

Sincerest Thank You.

**BERNARD LLARENAS** 

Carrier Guam Inc. Sales Engineer

Barrigada, Guam 96921 P.O.Box 23847

Tel: (671) 647-9288

Cell: (671) 898-1918

Fax: (671) 646-0965

Bernard.Llarenas2@carrier.com



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From: Llarenas, Bernard

Sent: Tuesday, November 16, 2021 7:58 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office cprocurementoffice@triton.uog.edu>

Subject: RE: [External]UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT

Dear UOG Procurement,

Bid package and amendments received.

BERNARD LLARENAS Thank You.

Sales Engineer

P.O.Box 23847 Carrier Guam Inc.

Barrigada, Guam 96921

Tel: (671) 647-9288

Fax: (671) 646-0965 Cell: (671) 898-1918

Bernard,Llarenas2@carrier.com



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From: UOG Procurement Bids < uog.bids@triton.uog.edu>

Sent: Monday, November 15, 2021 10:18 AM

To: Llarenas, Bernard < Bernard. Llarenas 2@carrier.com >

Cc: Procurement Office cprocurementoffice@triton.uog.edu>

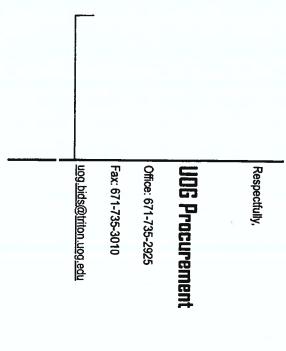
Subject: [External]UOG IFB B21-17: PURCHASING OF HVAC EQUIPMENT

Håfa Adai & Good Morning,

As requested, see attached bid package and amendments.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



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#### RFIs for Bid No. B21-17

## Anthony Scragg <anthonys@jwsguam.com>

Sun 11/7/2021 12:00 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

<ajames@jwsguam.com> Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer James

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good afternoon,

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: <u>anthonys@jwsguam.com</u>

Cell Line: 671-864-8554 Direct Line: 671-588-5981

Fax: 671-649-0053

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#### Re: RFIs for Bid No. B21-17

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 11/8/2021 10:04 AM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer James <ajames@jwsguam.com>

Håfa Adai & Good Morning Mr. Scragg,

Acknowledging receipt of your email. We will issue a response accordingly.

Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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#### Fw: RFIs for Bid No. B21-17

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 11/8/2021 11:47 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

Håfa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### UOG Procurement

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer

James <ajames@jwsguam.com>

Subject: RFIs for Bid No. B21-17

Good afternoon, [EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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Re: RFIs for Bid No. B21-17

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Mon 11/8/2021 11:50 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

John,

Please prepare responses. Please use AMORIENT when needed

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 8, 2021 11:47 AM

**To:** Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office <procurementoffice@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Håfa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer

James <ajames@jwsguam.com>

Subject: RFIs for Bid No. B21-17

Good afternoon, [EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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#### Re: RFIs for Bid No. B21-17

## John Leon Guerrero < johnlg@triton.uog.edu>

Mon 11/8/2021 12:15 PM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

Ok, will do.

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Monday, November 8, 2021 11:50 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office <procurementoffice@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

John,

Please prepare responses. Please use AMORIENT when needed

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 8, 2021 11:47 AM

**To:** Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office cprocurementoffice@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Håfa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG51KTAYckXOjumdCzalqGk%3D



#### **UOG Procurement**

Office: 671-735-2925

uog,bids@triton.uog.edu Fax: 671-735-3010

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>; Answer

James <ajames@jwsguam.com>

Subject: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

#### Anthony R. Scragg

Service Department

VC Patrice to 8 A/C

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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#### Fw: RFIs for Bid No. B21-17

## John Leon Guerrero <johnlg@triton.uog.edu>

Tue 11/16/2021 7:38 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Hafa Adai Emily

Please see attached answers below from JJ Javellana (Amorient).

From: Jonathan Javellana < jonathan.javellana@amorient.com>

Sent: Tuesday, November 9, 2021 1:59 PM

To: John Leon Guerrero < johnlg@triton.uog.edu>

Subject: RE: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

I updated the specs based on and to clarify some of the contractors questions. Revised spec's text is reflected in red. See my response below for JWS's RFI.

- 1. New VRF equipment will require indoor and outdoor equipment replacement if new brand is selected. Indoor and outdoor VRF equipment must be compatible from same manufacturer.
- 2. UOG maintenance to verify if existing condensers serve separate air handling equipment. If so, manufacturer will need to verify if new condenser can serve multiple air handling equipment. There are condensing units available to service multiple air handling units (within a limited capacity variance). Indoor air handlers will need to be equipped with refrigerant control kit if this approach is used.
- 3. See comment on item #2
- 4. As requested by UOG, copper tube and copper fins to be used. Additional coating to be included (e.g. e-coating)
- 5. The power supply for each unit varies, so 208V may not be applicable to all equipment. New equipment to have electrical supply similar to existing revising the 208V requirement. equipment to be replaced. Contractor to verify with UOG staff on power supply available for each unit to be replaced. See attached updated specs
- UOG team to verify.
- UOG team to verify.
- 8. UOG team to verify. If installation and storage is not included in this bid, Amorient can revise specs to remove/revise sections 1.3 & 1.6 "Delivery, Storage, and Handling"

Regards

۳

1/3

From: John Leon Guerrero < johnlg@triton.uog.edu>

Sent: Monday, November 8, 2021 3:01 PM

To: Jonathan Javellana < jonathan.javellana@amorient.com>

Subject: Fw: RFIs for Bid No. B21-17

2

see attached questions below regarding BID NO. B21-17.

From: UOG Procurement Bids < uog.bids@triton.uog.edu>
Sent: Monday, November 8, 2021 11:47 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Håfa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UDG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids < uog\_bids@triton.uog.edu>

Cc: Gumataotao, Emily <egg<u>umataotao@triton.uog.edu</u>>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <<u>louisej@jwsguam.com</u>>; Answer

James <<u>ajames@jwsguam.com</u>>

Subject: RFIs for Bid No. B21-17

Good afternoon [EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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B21-17105

# RFIs for Bid No. B21-17

rrero, Glenn <glennlg@triton.uog.edu>

4:08 PM

**K**ero <johnlg@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Here are the answere to the JWS questions. Please disregard JJ comments as sent by John.

1. It was mentioned that you want to use only one manufacturer for the complete project, but you have Daikin condensers at the Marine intensions on this system. A wer: We will remove the Marine Lab condensers from the list. VRF systems, which mean they communicate with each other so you cannot use different manufacturers. Please clarify your Lab. It also is our understanding that many of the indoor units connected to these Daikin condensers also do not operate. These are

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5. In the specs Page 28 2.2.1.3 it says you want a "208 volt control circuit". Will 115 volts be acceptable? Answer: No.

6. In Exhibit B page 63 Table 2.0 options No. 1 refers to "Service for maintenance and upkeep". Can you please clarify the meaning of that? Answer: Although, UOG is only soliciting for condenser units, we would like to understand what the maintenance and upkeep cost for your units. This will give us an idea of the overall cost of your unit.

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From: John Leon Guerrero < johnlg@triton.uog.edu>

Sent: Tuesday, November 16, 2021 7:37 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Hafa Adai Emily

Please see attached answers below from JJ Javellana(Amorient).

From: Jonathan Javellana <jonathan.javellana@amorient.com>

Sent: Tuesday, November 9, 2021 1:59 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: RE: RFIs for Bid No. B21-17

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Regards,

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From: John Leon Guerrero < johnlg@triton.uog.edu>

Sent: Monday, November 8, 2021 3:01 PM

To: Jonathan Javellana <jonathan.javellana@amorient.com>

Subject: Fw: RFIs for Bid No. B21-17

Sir

12/16/21, 10:49 AM

see attached questions below regarding BID NO. B21-17.

From: UOG Procurement Bids < <a href="mailto:uog.edu">uog.edu</a>>

Sent: Monday, November 8, 2021 11:47 AM

**To:** Leon Guerrero, Glenn <<u>glennlg@triton.uog.edu</u>>; John Leon Guerrero <<u>johnlg@triton.uog.edu</u>>

Cc: Sandra Mary Mcauliffe <<u>smcauliffe@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

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UOG Procurement Bids <uog.bids@triton.uog.edu>

Tue 11/16/2021 4:44 PM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

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Thank you for this. Was the other questions answered from GESI & Ability?

Question 1:Is the purchase funded by Federal Cares Act funds? If so, do the units need to be BAA compliant?

Answer: UOG confirms

**Question 2**:The RFQ Equipment specifications refer to VFR /VRV Units. It does not go into detail on the units being requested.

Answer: UOG confirms

Question 3:Of the units requested, the RFQ does not state whether they are Packaged Units, or Ducted Split Units that require Air Handling Units.

Answer: UOG confirms

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Sent: Tuesday, November 16, 2021 4:08 PM

fo: John Leon Guerrero < johnlg@triton.uog.edu>; UOG Procurement Bids < uog.bids@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

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Cc: Sandra Mary Mcauliffe <<u>smcauliffe@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

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GUAIN OF FAX: 671-735-3010 U09\_bids@triton\_uog\_edu

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Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Wed 11/17/2021 4:21 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Said he answered and sent to you. Let me revisit with John again.

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Sent: Tuesday, November 16, 2021 4:44 PM

**To:** Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Hi Glenn,

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Answer: UOG confirms

Question 2:The RFQ Equipment specifications refer to VFR /VRV Units. It does not go into detail on the units being requested.

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UOG Procurement Bids <uog.bids@triton.uog.edu>

Thu 11/18/2021 12:19 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Hi Glenn,

need to send out amendment by today and would like to send before lunch. The vendors are following up again. I'm thinking they I could not find the email with responses. Unless I missed it. Please have john resend response for the other questions asked. I will ask for an extension, are you willing to extend another week? Advise. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

# UOG Procurement

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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Sent:

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

cement Bids <uog.bids@triton.uog.edu> Desday, November 17, 2021 4:20 AM

**To:** UOG

K Bid No. B21-17 Subject: Re:

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Sent: Tuesday, November 16, 2021 4:44 PN

😢 John Leon Guerrero < johnlg@triton.uog.edu> To: Leon Guerrero, Glenn <glennig@triton.uog.

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Answer: UOG confirms

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Answer: UOG confirms

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Answer: UOG confirms

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Tuesday, November 16, 2021 4:08 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

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Sir

see attached questions below regarding BID NO. B21-17.

From: UOG Procurement Bids < <a href="mailto:uog.edu">uog.edu</a>>

Sent: Monday, November 8, 2021 11:47 AM

**To:** Leon Guerrero, Glenn <<u>glennlg@triton.uog.edu</u>>; John Leon Guerrero <<u>johnlg@triton.uog.edu</u>>

**Cc:** Sandra Mary Mcauliffe <<u>smcauliffe@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

Subject: Fw: RFIs for Bid No. B21-17

Hafa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

# **UDG Procurement**

Office: 671-735-2925

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Fax: 671-735-3010

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From: Anthony Scragg <<u>anthonys@jwsguam.com</u>>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids < <u>uog. bids@triton.uog.edu</u>>

Cc: Gumataotao, Emily <egg<u>umataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com</u>>; 'Louise J' <<u>louisej@jwsguam.com</u>>; Answer James <ajames@jwsguam.com>

Subject: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good afternoon,

Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

Anthony R. Scragg

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYiNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG51KTAYckXOjumdCzalqGk%3D

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Thu 11/18/2021 3:30 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

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Subject: Re: RFIs for Bid No. B21-17

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Thu 11/18/2021 8:16 AM

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Subject: Re: RFIs for Bid No. B21-17

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Subject: Re: RFIs for Bid No. B21-17

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To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Hafa Adai Emily

Please see attached answers below from JJ Javellana(Amorient).

47

From: Jonathan Javellana <jonathan.javellana@amorient.com>

Sent: Tuesday, November 9, 2021 1:59 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: RE: RFIs for Bid No. B21-17

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Regards,

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From: John Leon Guerrero <johnlg@triton.uog.edu>

Sent: Monday, November 8, 2021 3:01 PM

To: Jonathan Javellana <jonathan.javellana@amorient.com>

Subject: Fw: RFIs for Bid No. B21-17

:<u>`</u>

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12/16/21, 10:57 AM

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Respectfully,

#### VOG Procurement

Office: 671-735-2925 Fax: 671-735-3010 uog,bids@triton.uog.edu

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Mail - UOG Procurement Bids - Outlook

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Sorry Emily. Here is the latest with the advice from Rachel Cubacub's input. Also will you provide the sign in sheet

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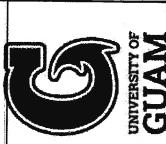
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Thu 11/18/2021 9:10 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Leon Guerrero < johnlg@triton.uog.edu>

Hi Glenn,

Thank you for this and yes, I will provide the sign-in sheet.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

## **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Thursday, November 18, 2021 8:48 AM

lo: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu> 12/16/21, 11:00 AM

Cc: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Sorry Emily. Here is the latest with the advice from Rachel Cubacub's input. Also will you provide the sign in sheet

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Thursday, November 18, 2021 8:44 AM

io: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Hafa adai Emily,

# Please use the attached as the answers to all questions (JWS, GESI, Ability)asked

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Thursday, November 18, 2021 8:16 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

# Please send Abilities questions

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Thursday, November 18, 2021 3:30 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Will do

From: UOG Procurement Bids < uog. bids@triton.uog.edu>

Sent: Thursday, November 18, 2021 12:19 AM

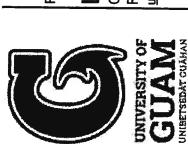
To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Hi Glenn,

need to send out amendment by today and would like to send before lunch. The vendors are following up again. I'm thinking they I could not find the email with responses. Unless I missed it. Please have john resend response for the other questions asked. I will ask for an extension, are you willing to extend another week? Advise. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

# **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

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From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Wednesday, November 17, 2021 4:20 AM

fo: UOG Procurement Bids < uog. bids@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

John,

Said he answered and sent to you. Let me revisit with John again.

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Tuesday, November 16, 2021 4:44 PM

Io: Leon Guerrero, Glenn <glennig@triton.uog.edu>; John Leon Guerrero <johnig@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Hi Glenn,

Thank you for this. Was the other questions answered from GESI & Ability?

Question 1:1s the purchase funded by Federal Cares Act funds? If so, do the units need to be BAA compliant?

Answer: UOG confirms

Question 2: The RFQ Equipment specifications refer to VFR /VRV Units. It does not go into detail on the units being requested.

Answer: UOG confirms

Question 3:Of the units requested, the RFQ does not state whether they are Packaged Units, or Ducted Split Units that require Air Handling Units.

Answer: UOG confirms

**Question 4:**The RFQ does not state efficiency requirements (EER rating)

Answer: UOG confirms

Question 5:Are you asking for direct replacements for the units in each of the buildings?

Answer: UOG confirms

Question 6: The RFQ mentions Storage, some about installation, & providing specs 5 weeks in advance of purchases. However, the Scope states it purchase only.

Answer: UOG confirms

Question 7: Does the bidder need to supply storage?

Answer: UOG confirms

Question 1:May I inquire when the deadline is to deliver the equipment's?

Answer: UOG confirms

From: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Sent: Tuesday, November 16, 2021 4:08 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: RFIs for Bid No. B21-17

Hafa adai Emily,

Here are the answers to the JWS questions. Please disregard JJ comments as sent by John.

- 1. It was mentioned that you want to use only one manufacturer for the complete project, but you have Daikin condensers at the Marine Lab. It also is our understanding that many of the indoor units connected to these Daikin condensers also do not operate. These are VRF systems, which means they communicate with each other so you cannot use different manufacturers. Please clarify your intensions on this system. Answer: We will remove the Marine Lab condensers from the list.
  - 2. On the Science building 3 rd floor you have two 10-ton condensers which you want to remove and replace with a single 20 ton, do those two-line sets go to one AHU with two circuits? Answer: Yes they both connect to one (1) AHU. Again, only requesting for condensing units not installation.
- 3. On the Lecture hall Auditorium you have the exact same issue you have two 10 ton condensers and you want to replace with a single 20 ton, do those two line sets go to one AHU with two circuits. Answer: Yes they both connect to one (1) AHU. Again, only requesting for condensing units not installation.
- 4. In the specs Page 28 2.2.1.1 it says "copper to copper condensing coils" and then it says "condensing coils to have a special coating for corrosion coating". Please clarify you want copper fins and a coating on the copper? Answer: Yes.
  - 5. In the specs Page 28 2.2.1.3 it says you want a "208 volt control circuit". Will 115 volts be acceptable? Answer: No.
- that? Answer: Although, UOG is only soliciting for condenser units, we would like to understand what the maintenance and upkeep 6. In Exhibit B page 63 Table 2.0 options No. 1 refers to "Service for maintenance and upkeep". Can you please clarify the meaning of cost for your units. This will give us an idea of the overall cost of your unit.
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Re: RFIs for Bid No. B21-17

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Thu 11/18/2021 9:45 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Thank you Emily. 👍

Sent from my iPhone

On Nov 18, 2021, at 9:10 AM, UOG Procurement Bids <uog.bids@triton.uog.edu> wrote:

Hi Glenn,

Thank you for this and yes, I will provide the sign-in sheet.

Si Yu'os ma'ase' & Have a nice day!,



וניים עוני עוניים עוניים אוניים אוניים

Respectfully,

**UOG Procurement** 

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu



https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG51KTAYckXOitImdC7aInGk%3D

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Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u>

UNIVERSITY OF

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Sent: Wednesday, November 17, 2021 4:20 AM

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Subject: Re: RFIs for Bid No. B21-17

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**To**: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

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- 5. In the specs Page 28 2.2.1.3 it says you want a "208 volt control circuit". Will 115 volts be acceptable? Answer: No.
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  - 7. In Exhibit B page 63 Table 2.0 options No. 3 refers to "Replacement/trade in program". Can you please clarify the meaning of that? Answer: Although, UOG is only soliciting for condenser units, we would like to understand what the maintenance and upkeep cost for your units. This will give us an idea of the overall cost of your unit.
- Does this contract include installation of purchased equipment? At the site visit, it was stated that the contract did not include installation. However, in the bid packet Exhibit B: 2a. it says: "Any additional cost not stated in this bid but are required to complete the delivery and installation must be included in the bidders price" Please

clarify. Answer: Installation is not included.

From: John Leon Guerrero < johnlg@triton.uog.edu> Sent: Tuesday, November 16, 2021 7:37 AM

To: UOG Procurement Bids < uog. bids@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Subject: Fw: RFIs for Bid No. B21-17

Hafa Adai Emily

Please see attached answers below from JJ Javellana(Amorient).

From: Jonathan Javellana <jonathan.javellana@amorient.com>

Sent: Tuesday, November 9, 2021 1:59 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>

Subject: RE: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

I updated the specs based on and to clarify some of the contractors questions. Revised spec's text is reflected in red. See my response below for JWS's RFI. r and outdoor equipment replacement if new brand is selected. Indoor and outdoor VRF manufacturer.

2. UOG maintenance to verify if existing condensers serve separate air handling equipment. If so, manufacturer will need to verify if new (within a limited capacity variance). Indoor air handlers will need to be equipped with refrigerant control kit if this approach is used. condenser can serve multiple air handling equipment. There are condensing units available to service multiple air handling units

- 3. See comment on item #2
- 4. As requested by UOG, copper tube and copper fins to be used. Additional coating to be included (e.g. e-coating)
- 5. The power supply for each unit varies, so 208V may not be applicable to all equipment. New equipment to have electrical supply similar to existing equipment to be replaced. Contractor to verify with UOG staff on power supply available for each unit to be replaced. See attached updated specs revising the 208V requirement.
  - 6. UOG team to verify.
- 7. UOG team to verify.
- 8. UOG team to verify. If installation and storage is not included in this bid, Amorient can revise specs to remove/revise sections 1.3 & 1.6 "Delivery, Storage, and Handling"

Regards,

\_

From: John Leon Guerrero < johnlg@triton.uog.edu>

Sent: Monday, November 8, 2021 3:01 PM

To: Jonathan Javellana <jonathan.javellana@amorient.com>

Subject: Fw: RFIs for Bid No. B21-17

Sir

see attached questions below regarding BID NO. B21-17.

From: UOG Procurement Bids < <a href="mailto:uog.edu">uog.bids@triton.uog.edu</a>>

Sent: Monday, November 8, 2021 11:47 AM

**ľo:** Leon Guerrero, Glenn <<u>glennig@triton.uog.edu</u>>; John Leon Guerrero <<u>johnig@triton.uog.edu</u>>

Cc: Sandra Mary Mcauliffe <<u>smcauliffe@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

Subject: Fw: RFIs for Bid No. B21-17

Hafa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925
Fax: 671-735-3010
uog.bids:@triton.uog.edu

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Sunday, November 7, 2021 11:59 AM

To: UOG Procurement Bids < uog bids@triton.uog.edu>

Cc: Gumataotao, Emily <<u>eggumataotao@triton.uog.edu>; rogerj@jwsguam.com</u> <<u>rogerj@jwsguam.com</u>>; 'Louise J'

<a href="mailto:com">com</a>; Answer James <a james@jwsguam.com>

Subject: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good afternoon, Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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12/16/21, 11:03 AM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Thu 11/18/2021 3:53 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Hi John,

Please answer one last one that was missed. Thanks!

May I please get more information for the attached? Kindly clarify if it is the ton per unit and column (ton) is the total tonnage.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UDG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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### Re: RFIs for Bid No. B21-17

John Leon Guerrero <johnlg@triton.uog.edu>

Thu 11/18/2021 4:14 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Hafa Adai Emily

Ton Is the Total Tonnage...

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**UDG Procurement** 

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12/16/21, 11:03 AM

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https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAG51KTAYckXOjumdCzalqGk%3D

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Subject: Fw: RFIs for Bid No. B21-17

:5

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Cc: Sandra Mary Mcauliffe <<u>smcauliffe@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

Subject: Fw: RFIs for Bid No. B21-17

12/16/21, 11:03 AM

Hafa Adai & Good Morning,

See questions from bidder attached. Response will be issued in Amendment.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925

Eax: 671-735-3010

uog.bids@triton.uog.edu mibetsedät cuäilan The University of Guam is an equal opportunity provider and employer.

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From: Anthony Scragg <anthonys@jwsguam.com>

**Sent:** Sunday, November 7, 2021 11:59 AM

io: UOG Procurement Bids < uog.bids@triton.uog.edu>

**Cc:** Gumataotao, Emily <<u>eggumataotao@triton.uog.edu>; rogeri@jwsguam.com</u> <<u>rogerj@jwsguam.com</u>>; 'Louise J' <<u>louisej@jwsguam.com</u>>; Answer James <ajames@jwsguam.com>

Subject: RFIs for Bid No. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good afternoon, Attached is a document with a list of RFI questions JWS has regarding University of Guam's current bid opening, No. B21-17.

Please confirm receipt of this attachment.

Looking forward to hearing back soon.

Regards,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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hthe fluithat affice 8RE com/meilidia Anta Chaine canales transmisses as an anistration of anistration

## UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 11/19/2021 4:20 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Guerrero <johnlg@triton.uog.edu>

Håfa Adai & Good Afternoon,

Please see corrected attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

Fri 11/19/2021 4:23 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

Cc: Francisco, Arnel <Arnel.Francisco@Carrier.com>; Aguigui, Leonard <Leonard.Aguigui@Carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Corrected Amendment #3 received.

Thank You.
BERNARD LLARENAS
Carrier Guam Inc.

P.O.Box 23847

Barrigada, Guam 96921 Tel: (671) 647-9288

Cell: (671) 898-1918 Fax: (671) 646-0965 Bernard Llarenas 2@carrier.com



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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 4:21 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External] UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Håfa Adai & Good Afternoon,

Please see corrected attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

12/16/21, 11:06 AM

Please acknowledge receipt.

Thank you & Stay safe!

| Respectfully,

-Si Yu'os ma'aso' & Havo a nico day!;

**UDG Procurement** 

Fax: 671-735-3010

Office: 671-735-2925

uog.bids@triton.uog.edu

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https://outlook.officp365.com/mail/id/AAOka@OznmEvnNa/Eat TEmOTVanDeat.nazne:i uzz.zn.ezzn.ezz.na.e

# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Lynn Scott <lynn@gesiworld.com>

Fri 11/19/2021 4:30 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office cprocurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please provide GESI Amendment #1 & #2

Lynn Scott

President & CEO

Green Energy Solutions, Inc.

Office: 671-647-8111 ext. 1078

Office: 671-647-8111 ext. Mobile: 671-686-5557

Email: lynn@gesiworld.com Website:www.gesiguam.com



GREEN ENERGY SOLUTIONS INC.

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 4:21 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Håfa Adai & Good Afternoon,

Please see corrected attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

**UOG Procurement** Respectfully, Signature <u>Logo</u>

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Deo Lagman <DLagman@jbmoderntech.com>

Fri 11/19/2021 4:55 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Gene Bangayan <GeneBangayan@jbmoderntech.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

Confirming receipt of Amendment 3 from J&B Modern Tech.

Can we also request for the Amendment 1 and 2?

J&B Modern Tech did not receive copy of the previous Amendments.

Regards,

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 4:21 PM

To: Procurement Office cprocurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Håfa Adai & Good Afternoon,

Please see corrected attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	UOG Procurement	Office: 671-735,2025
	Signature	<u>Logo</u>

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Lynn Scott <lynn@gesiworld.com>

Fri 11/19/2021 5:04 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office cprocurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

**GESI** is confirming Receipt

Lynn Scott President & CEO Green Energy Solutions, Inc. Office: 671-647-8111 ext. 1078 Mobile: 671-686-5557 Email: lynn@gesiworld.com Website:www.gesiguam.com



From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 4:21 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3 (Corrected)

Håfa Adai & Good Afternoon,

Please see corrected attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

12/16/21, 11:10 AM

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	UOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog.bids@triton.uog.edu	
		3			

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12/16/21, 11:10 AM

Mail - UOG Procurement Bids - Outlook

### UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 11/19/2021 9:36 AM

Всс: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



**UOG Procurement** 

Respectfully,

Office: 671-735-2925

Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Camacho, Rochelle <rochelle.camacho2@carrier.com>

Fri 11/19/2021 10:04 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

Please find attach acknowledgement.

Thank you & Stay Safe!

Si Yu'us Ma'ase

Chelle C. Camacho

Carrier Commercial Sales & Service

Tel: 671-647-9290/@671-888-1969/188 Tun Joaquin Flores Road, Tamuning GU 96913

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 9:37 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	UOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog.bids@triton.uog.edu	
			2		N. Control of the Con

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

Fri 11/19/2021 10:52 AM

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Amendment #3 received.

Thank You.
BERNARD LLARENAS
Sales Engineer
Carrier Guam Inc.
P.O.Box 23847
Barrigada, Guam 96921
Tel: (671) 647-9288
Cell: (671) 898-1918
Fax: (671) 646-0965
Bernard, Llarenas 2@carrier.com



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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 9:37 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Håfa Adai & Good Morning,

12/16/21, 11:13 AM

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'āse' & Have a nice day!,---

Respectfully,

**UOG Procurement** 

Fax: 671-735-3010

Office: 671-735-2925

uog.bids@triton.uog.edu

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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Lynn Scott <lynn@gesiworld.com>

Fri 11/19/2021 11:06 AM

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

**GESI Acknowledges receipt** 

Lynn Scott President & CEO

Green Energy Solutions, Inc.

Office: 671-647-8111 ext, 1078 Mobile: 671-686-5557

Email: lynn@gesiworld.com

Website:www.gesiguam.com



From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 9:37 AM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Logo
Office: 671-735-2925
Fax: 671-735-3010

uog.bids@triton.uog.edu

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GPE INC <guampacific@gmail.com>

Fri 11/19/2021 11:14 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

My concern is my questions were not answered and not included. Please advise why? Thank you.



Virus-free. www.avg.com

On Fri, 19 Nov 2021 at 09:37, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**VOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu



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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Anthony Scragg <anthonys@jwsguam.com>

Fri 11/19/2021 2:10 PM

Cc: 'Louise J' <louisej@jwsguam.com>; rogerj@jwsguam.com <rogerj@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledged. Please see attached signed amendment.

Regards,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, November 19, 2021 9:37 AM

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UDG Procurement** 

Office: 671-735-2925

Signature Logo

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 11/19/2021 4:22 PM

To: GPE INC <guampacific@gmail.com>

Cc: Procurement Office curementoffice@triton.uog.edu>

Hi Sed,

Apologize for that oversight; corrected version re-sent to all bidders. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: GPE INC <guampacific@gmail.com>

Sent: Friday, November 19, 2021 11:14 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

My concern is my questions were not answered and not included. Please advise why? Thank you. [EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]



Virus-free. www.avg.com

On Fri, 19 Nov 2021 at 09:37, UOG Procurement Bids < uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

JNIBETSEDAT CUAHAN

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYINDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAlhBDurcL%2FIBh1aFdVgYrKc%3D

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GPE INC <guampacific@gmail.com>

Fri 11/19/2021 6:21 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you, have a nice week end

Sent from my iPhone

On Nov 19, 2021, at 4:22 PM, UOG Procurement Bids <uog.bids@triton.uog.edu> wrote:

Hi Sed,

Apologize for that oversight; corrected version re-sent to all bidders. Thanks!

Si Yu'os ma'ase' & Have a nice day!,

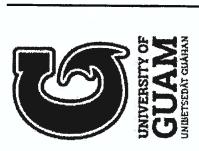
Respectfully,

**UOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu



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From: GPE INC <guampacific@gmail.com>

Sent: Friday, November 19, 2021 11:14 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDIMENT 3

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

My concern is my questions were not answered and not included. Please advise why? Thank you.



Virus-free. www.avg.com

On Fri, 19 Nov 2021 at 09:37, UOG Procurement Bids < uog. bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

GPE INC <guampacific@gmail.com>

Sun 11/21/2021 10:50 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

There is no attachments, please send it again. Thank you

On Fri, 19 Nov 2021 at 16:22, UOG Procurement Bids < uog bids@triton.uog.edu> wrote:

Hi Sed,

Apologize for that oversight; corrected version re-sent to all bidders. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** Office: 671-735-2925

uog.bids@triton.uog.edu

Fax: 671-735-3010

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From: GPE INC < <u>guampacific@gmail.com</u>>

Sent: Friday, November 19, 2021 11:14 AM

To: UOG Procurement Bids < uog. bids@triton.uog.edu>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 3

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

My concern is my questions were not answered and not included. Please advise why? Thank you.



Virus-free. www.avg.com

On Fri, 19 Nov 2021 at 09:37, UOG Procurement Bids < uog. bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 3.

Please acknowledge receipt.

Thank you & Stay safe!

Si Yu'os ma'ase' & Have a nice day!,

**UOG Procurement** Respectfully,

Office: 671-735-2925



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Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

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### RE: UOG IFB B21-17

12/16/21, 11:22 AM

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Mon 11/22/2021 3:48 PM

To: GPE INC <guampacific@gmail.com>

Cc: Procurement Office <procurementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Good Affernoon,

(uog.bids@triton.uog.edu). We created this email specifically for that purpose and to ensure as much as possible no questions are missed as this email is Apologize for that oversight once more. Hence, why it is critical that any questions/inquiries for any active bids for the university be sent to the Bids email monitored daily and throughout the day.

You may CC my personal and procurement office email, however it is still at an influx with our continued shortage of personnel.

We will issue another amendment to address your questions accordingly. Thank you for your patience!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### Emily G. Gumataotao

SUPPLY MANAGEMENT ADMINISTRATOR PROCUREMENT | ADMIN & FINANCE

Office: 671-735-2925

Fax: 671-735-3010

eggumataotao@triton.uog.edu

GUAM MIBETSEDAT CUALLAN

[mailto:gumataotaoemilyg@triton.uog.edu%OdProcurementoffice@triton.uog.edu]Procurementoffice@triton.uog.edu

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12/16/21, 11:22 AM

From: GPE INC [mailto:guampacific@gmail.com]

Sent: Monday, November 22, 2021 11:35 AM To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Subject: Re: UOG IFB B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear Purchasing,

question on waiving the bid bond since the funds to be used is federal financial assistance awards. U.S bases here, both Airforce and Navy Thank you for your email but my other sets of questions were not answered that were raised by my supplier. Please respond and also my does not require bid bonds on supply bids same in the U.S. MAINLAND.

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## UOG IFB No. B21-17, Signed Amendment 4

12/16/21, 11:22 AM

Anthony Scragg <anthonys@jwsguam.com>

Tue 11/23/2021 11:09 AM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledging receipt for amendment 4. Please see attached pdf

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: <u>anthonys@jwsguam.com</u>

Direct Line: 671-588-5981 Cell Line: 671-864-8554

Fax: 671-649-0053

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12/16/21, 11:24 AM

### RE: UOG IFB NO. B21-17

Gene Bangayan <GeneBangayan@jbmoderntech.com>

Wed 11/24/2021 4:05 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Emily, thank on your response. Have a nice day and Happy Thanksgiving.

Senseramante'

Gene

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 3:24 PM

To: Gene Bangayan <GeneBangayan@jbmoderntech.com>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Procurement Office cprocurementoffice@triton.uog.edu>

Subject: Re: UOG IFB NO. B21-17

Hello Gene,

B21-17 is still an active open bid. If a company requests' online as advised on the ad solicitation, they will receive a response.

### ~Happy Thanksgiving~

Si Yu'os ma'ase' & Have a nice day!,

Signature

**UOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: Gene Bangayan < GeneBangayan@jbmoderntech.com>

Sent: Wednesday, November 24, 2021 2:23 PM

To: Gumataotao, Emily < <a href="mailto:eggumataotao@triton.uog.edu">edu</a>>

Cc: UOG Procurement Bids < uog. bids@triton.uog.edu>

Subject: FW: UOG IFB NO. B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Emily, I gladly appreciate your answer our email below. My wife Nelia's company is All Business Enterprises Corporation; This is all woman corporation. Please advise us if our company is qualified to bid.

Thank you.

From: Gene Bangayan

Sent: Tuesday, November 23, 2021 5:19 PM

To: Gumataotao, Emily < <u>eggumataotao@triton.uog.edu</u>>

Cc: UOG Procurement Bids < <a href="mailto:uog.edu">uog.bids@triton.uog.edu</a>>

Subject: UOG IFB NO. B21-17

Hi, Emily, the bis bid submittal is on 11-29-2021 at 2:00 PM. MY inquiry, since the Pre Bid Conference and Site visit was not mandatory, We have a company, All Woman Corporation, can we participate on the bid, even we didn't attend the pre-bid and site visit? We really appreciate your immediate advice on this matter.

Thank you.

Nelia Bangayan

**President** 

All Business Enterprises Corporation

( All Woman corporation )

# UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 11/22/2021 5:00 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

12

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

12/16/21, 11:25 AM

Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

Mon 11/22/2021 5:20 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Amendment #4 received.

**BERNARD LLARENAS** Thank You.

Carrier Guam Inc.

P.O.Box 23847

Barrigada, Guam 96921 Tel: (671) 647-9288

Cell: (671) 898-1918

Fax: (671) 646-0965

Bernard.Llarenas2@carrier.com



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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

**Sent:** Monday, November 22, 2021 5:00 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Håfa Adai & Good Afternoon,

### 12/16/21, 11:25 AM

# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Lynn Scott <lynn@gesiworld.com>

Mon 11/22/2021 5:52 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

**GESI** confirms Receipt

Lynn Scott

President & CEO

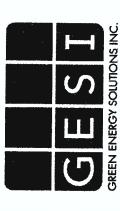
Green Energy Solutions, Inc.

Office: 671-647-8111 ext. 1078

Mobile: 671-686-5557

Email: lynn@gesiworld.com

Website:www.gesiguam.com



From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 22, 2021 5:00 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

12/16/21, 11:25 AM

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature

Logo

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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12/16/21, 11:25 AL

# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

12/16/21, 11:26 AM

GPE INC <guampacific@gmail.com>

Tue 11/23/2021 11:25 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Appreciate your Amendment 4 however my question regarding 15% Bid bond should not be required since it only applies to local funds not federal funds. Gov. Guam cannot implement local laws which is inconsistent with the intentions and purpose of Buy American Act or Made in American Act. because Federal law supersedes Guam law. The purpose of the Buy American Actis to help manufacturers, small business owners and American workers without imposing local laws that are unduly restrictive. Please advise.

On Mon, 22 Nov 2021 at 17:00, UOG Procurement Bids < uog bids@triton.uog.edu > wrote:

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

Please acknowledge receipt.

Thank you & Stay safe!

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Respectfully,

**UOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

12/16/21, 11:26 AM

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

GPE INC <guampacific@gmail.com>

Tue 11/23/2021 12:37 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please take note that UOG had not addressed my concern on the elimination of bid bond since the funds to be used is not local funds but federal funds.

On Tue, 23 Nov 2021 at 11:25, GPE INC < guampacific@gmail.com > wrote:

Appreciate your Amendment 4 however my question regarding 15% Bid bond should not be required since it only applies to local funds not federal funds. Gov. Guam cannot implement local laws which is inconsistent with the intentions and purpose of Buy American Act or Made in American Act. because Federal law supersedes Guam law. The purpose of the Buy American Act is to help manufacturers, small business owners and American workers without imposing local laws that are unduly restrictive. Please advise.

On Mon, 22 Nov 2021 at 17:00, UOG Procurement Bids < <u>uog bids@triton.uog.edu</u> > wrote:

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Please acknowledge receipt.

Thank you & Stay safe!

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Si Yu'os ma'ase' & Have a nice day!,

Respectfully,



### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

UOG Procurement Bids <uog.bids@triton.uog.edu>

Wed 11/24/2021 9:05 AM

To: GPE INC <guampacific@gmail.com>

Håfa Adai & Good Morning,

Will address your concern and respond accordingly.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UDG Procurement**

Office: 671-735-2925

uog.bids@triton.uog.edu Fax: 671-735-3010

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From: GPE INC <guampacific@gmail.com>

Sent: Tuesday, November 23, 2021 12:36 PM

1,4

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

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The purpose of the Buy American Act is to help manufacturers, small business owners and American workers without imposing local laws that are unduly restrictive. Please advise.

On Mon, 22 Nov 2021 at 17:00, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

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Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

GPE INC <guampacific@gmail.com>

Wed 11/24/2021 9:11 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Noted with thanks. Looking forward to your reply because our supplier is the distributor of US made Daikin and other brands. Happy Thanksgiving to all of you.

Sed

On Wed, 24 Nov 2021 at 09:05, UOG Procurement Bids < uog bids@triton.uog.edu > wrote:

Hafa Adai & Good Morning,

Will address your concern and respond accordingly.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

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From: GPE INC <<u>guampacific@gmail.com</u>>

Sent: Tuesday, November 23, 2021 12:36 PM

To: UOG Procurement Bids < <a href="mailto:uog.edu">uog.edu</a>>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

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The purpose of the Buy American Act is to help manufacturers, small business owners and American workers without imposing local laws that are unduly restrictive. Please advise.

On Mon, 22 Nov 2021 at 17:00, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

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Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

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12/16/21, 11:27 AM

Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

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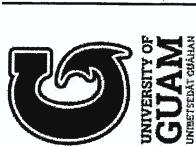
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## Fw: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

12/16/21, 11:30 AM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Wed 11/24/2021 9:18 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Hi Glenn/John,

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Wed 11/24/2021 11:05 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

Good morning Em,

Randy advised that Anthony returns on the 1st of Dec.

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 9:18 AM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Camacho, Rochelle <rochelle.camacho2@carrier.com>

Wed 11/24/2021 4:28 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good afternoon,

Acknowledging receipt of Amendment 4.

Thank you & Stay Safe!

Si Yu'us Ma'ase

Chelle C. Camacho

Carrier Commercial Sales & Service

Tel: 671-647-9290/@671-888-1969/188 Tun Joaquin Flores Road, Tamuning GU 96913

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 22, 2021 5:00 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External] UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Camacho, Rochelle <rochelle.camacho2@carrier.com>

Wed 11/24/2021 4:28 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good afternoon,

Acknowledging receipt of Amendment 4.

Thank you & Stay Safe!

Si Yu'us Ma'ase

Carrier Commercial Sales & Service Chelle C. Camacho

Tel: 671-647-9290/@671-888-1969/188 Tun Joaquin Flores Road, Tamuning GU 96913

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, November 22, 2021 5:00 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External] UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 4

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 4.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	VOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog.bids@triton.uog.edu	

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### UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

UOG Procurement Bids <uog.bids@triton.uog.edu>

Wed 11/24/2021 3:35 PM

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbimoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <amel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **VOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

MESTSEDAT CUAHAN

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## RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Lynn Scott <lynn@gesiworld.com>

Wed 11/24/2021 3:38 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

**GESI** is Confirming Receipt

Green Energy Solutions, Inc. President & CEO Lynn Scott

Office: 671-647-8111 ext. 1078 Website:www.gesiguam.com Email: lynn@gesiworld.com Mobile: 671-686-5557



From: UOG Procurement Bids <uog.bids@triton.uog.edu>

To: Procurement Office procurementoffice@triton.uog.edu> Sent: Wednesday, November 24, 2021 3:36 PM

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UDG Procurement** 

Signature

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

12/16/21, 11:34 AM

GPE INC <guampacific@gmail.com>

Wed 11/24/2021 3:43 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Procurement Office < procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received, thank you.

On Wed, 24 Nov 2021 at 15:35, UOG Procurement Bids < uog bids@triton.uog.edu > wrote: Håfa Adai & Good Afternoon, Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'âse' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

UNIVERSITY OF

GUAM INIBETSEDAT CUAHAN

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### RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Llarenas, Bernard <Bernard.Llarenas2@carrier.com>

Wed 11/24/2021 4:06 PM

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Dear UOG Procurement,

Amendment #5 received.

**BERNARD LLARENAS** Thank You.

Sales Engineer

Carrier Guam Inc.

P.O.Box 23847

Barrigada, Guam 96921

Cell: (671) 898-1918 Tel: (671) 647-9288

Fax: (671) 646-0965

Bernard.Llarenas2@carrier.com



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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 3:36 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External] UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UUG IFD DZ I-1, .....

3

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UDG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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### RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Deo Lagman <DLagman@jbmoderntech.com>

Wed 11/24/2021 4:15 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gene Bangayan <GeneBangayan@jbmoderntech.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai,

Confirming receipt from J&B Modern Tech.

Kindly also see attached acknowledgement receipt of amendment 3,4 and 5.

Regards,

Deo

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 3:36 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference. 

3

12/16/21, 11:35 AM

Respectfully,	<b>UOG Procurement</b>	Office: 671-735-2925
	Signature	Logo

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# RE: [External]UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Camacho, Rochelle <rochelle.camacho2@carrier.com>

Wed 11/24/2021 4:29 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good Afternoon,

Acknowledging receipt of Amendment 5.

Have a wonderful and safe Thanksgiving!

Thank you & Stay Safel Si Yu'us Ma'ase

Chelle C. Camacho

Carrier Commercial Sales & Service

Tel: 671-647-9290/@671-888-1969/188 Tun Joaquin Flores Road, Tamuning GU 96913

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 3:36 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: [External] UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

12/16/21, 11:36 AM

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	UOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog.bids@triton.uog.edu	

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### RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

### Anthony Scragg <anthonys@jwsguam.com>

Wed 11/24/2021 4:40 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>; rogerj@jwsguam.com <rogerj@jwsguam.com>; 'Louise J' <louisej@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledging receipt for amendment 5. Please see attached pdf.

Regards

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Wednesday, November 24, 2021 3:36 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attaction incomes attaction incomes and an incomes attaction incomes atta

2

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature Logo

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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### RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Alexandra Pearson <alex.pearson@onepacgrp.com>

Mon 11/29/2021 7:44 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Received and Thank you

#### Alexandra Pearson

Assistant Sales Manager, Guam

#### ONE PACIFIC

DBA:One Pacific Group - Pacific Guam and One Pacific Distributors

237 Mamis Street

Tamuning, Guam 96913

Ph: 671-646-8744/45/46 & 671-647-8742 Fax: 671-646-8748

Whatsapp: +1671-797-8733

https://www.onepacificgroup.com

From: UOG Procurement Bids [mailto:uog.bids@triton.uog.edu]

Sent: Wednesday, November 24, 2021 3:36 PM

To: Procurement Office

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 5

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 5.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference. Note: All Affiction with the contraction with the contraction of the c

5

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Signature

 $\overline{\text{Logo}}$ 

**UDG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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#### Amedment 6

Nel Bangayan <NBangayan@jbmoderntech.com>

Fri 12/3/2021 5:34 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

December 3, 2021

Please see attached acknowledgement of IFB B21-17 amendment 6.

Thank you.

Nelia Bangayan

All Business Enterprises Corp.

### UOG IFB B21-17: Amendment 3, 4, 5 & 6

Caroline Delos Reyes <caroline@mjmetc.com>

Sat 12/4/2021 9:48 AM

To: Procurement Office curementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hello,

Please see attached to acknowledge receipt of Amendment 3, 4, 5 & 6 for UOG IFB No. B21-17.

Thank you.

#### **Caroline Delos Reyes**

MJM (Guam) International Corporation

181 E. Harmon Industrial Park Rd Suite C

Tamuning, GU 96913

Office: (671) 646-4394 | Fax: (671) 649-5638

Email: caroline@mjmetc.com

### UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 6

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 12/3/2021 4:39 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Nel <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abiilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; amel.francisco@carrier.com Bangayan <NBangayan@jbmoderntech.com>

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 6.

All conditions of the bid remain the same.

Kind reminder, your original bid security should be receipted by our procurement office NLT bid submission deadline, Monday December 6, 2021 by 2pm.

The link for bid opening and link to upload bid submissions to our electronic share folder will also be provided on Monday December 6, 2021. Please submit 1 PDF file.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

**VOG Procurement** 

Respectfully,

Office: 671-735-2925

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAHok0APuuBdErLY5jeG2Y2l%3D

1/2



Fax: 671-735-3010 uog.bids@triton.uog.edu

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INIBETSEDAT CUAHAN

### Re: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 6

GPE INC <guampacific@gmail.com>

Fri 12/3/2021 4:47 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received, thank you.

On Fri, 3 Dec 2021 at 16:39, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 6.

All conditions of the bid remain the same.

Kind reminder, your original bid security should be receipted by our procurement office NLT bid submission deadline, Monday December 6, 2021 by 2pm.

The link for bid opening and link to upload bid submissions to our electronic share folder will also be provided on Monday December 6, 2021. Please submit 1 PDF file.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

**UOG Procurement** Respectfully,

Define: 671-735-2925

https://outlook.office365.com/mail/id/AAQKAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZKZDK1ZDViZmY4MwAQAHok0APuuBdErLY5jeG2Y21%3D

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

UOG Procurement

Office: 671-735-2925

Signature Logo Fax: 671-735-3010

uog.bids@triton.uog.edu

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### RE: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 6

Anthony Scragg <anthonys@jwsguam.com>

Mon 12/6/2021 8:08 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

Cc: 'Louise J' <louisej@jwsguam.com>; rogerj@jwsguam.com <rogerj@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please see attached acknowledgement of receipt.

Regards

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, December 3, 2021 4:39 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - AMENDMENT 6

Håfa Adai & Good Afternoon,

2

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 6.

12/16/21, 11:44 AM

All conditions of the bid remain the same.

Kind reminder, your original bid security should be receipted by our procurement office NLT bid submission deadline, Monday

December 6, 2021 by 2pm.

The link for bid opening and link to upload bid submissions to our electronic share folder will also be provided on Monday

December 6, 2021. Please submit 1 PDF file.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,

Signature Logo

Respectfully,

**UOG Procurement** 

https://outlook.office365.com/mail/id/AAQKAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQAHok0APuuBdErLY5jeG2Y21%3D

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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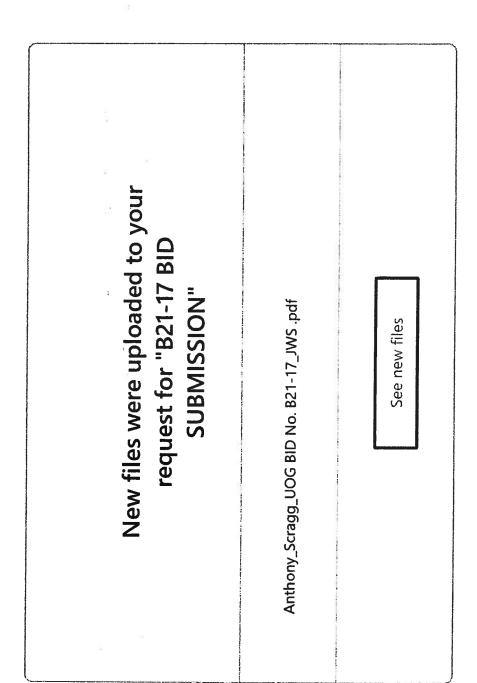
## Anthony Scragg uploaded new files to your request for B21-17 BID SUBMISSION

SharePoint Online <no-reply@sharepointonline.com>

Mon 12/6/2021 10:48 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]



Privacy Statement | Notification Settings

12/16/21, 11:45 AM

# Re: Nelia Bangayan uploaded new files to your request for B21-17 BID SUBMISSION

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 1:25 PM

To: Nel Bangayan <NBangayan@jbmoderntech.com>

Cc: Procurement Office curementoffice@triton.uog.edu>

Håfa Adai & Good Afternoon,

Confirming receipt of bid submission. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925

uog.bids@triton.uog.edu Fax: 671-735-3010

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From: SharePoint Online <no-reply@sharepointonline.com>

Sent: Monday, December 6, 2021 11:31 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Nelia Bangayan uploaded new files to your request for B21-17 BID SUBMISSION

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

See new files	Nelia_Bangayan_UOG BID NO. B21-17 ALL BUSINESS ENTERPRISES CORPORATION	New files were uploaded to your request for "B21-17 BID SUBMISSION"	
---------------	--	---	--

## Re: Mike Ecalnea uploaded new files to your request for B21-17 BID SUBMISSION

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 1:26 PM

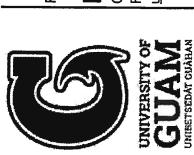
To: Michael Ecalnea <mike@tonysworkshop.com>

Cc: Procurement Office curementoffice@triton.uog.edu>

Håfa Adai & Good Afternoon,

Confirming receipt of bid submission. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: SharePoint Online <no-reply@sharepointonline.com>

Sent: Monday, December 6, 2021 1:21 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Subject: Mike Ecalnea uploaded new files to your request for B21-17 BID SUBMISSION

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

New file req	New files were uploaded to your request for "B21-17 BID SUBMISSION"
Mike_Ecalnea_Tony's Wor	ike_Ecalnea_Tony's Workshop Bid Package UOG B21-17.pdf
	See new files

# Re: Anthony Scragg uploaded new files to your request for B21-17 BID SUBMISSION

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 1:27 PM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: Procurement Office cprocurementoffice@triton.uog.edu>

Hafa Adai & Good Afternoon,

Confirming receipt of submission. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UDG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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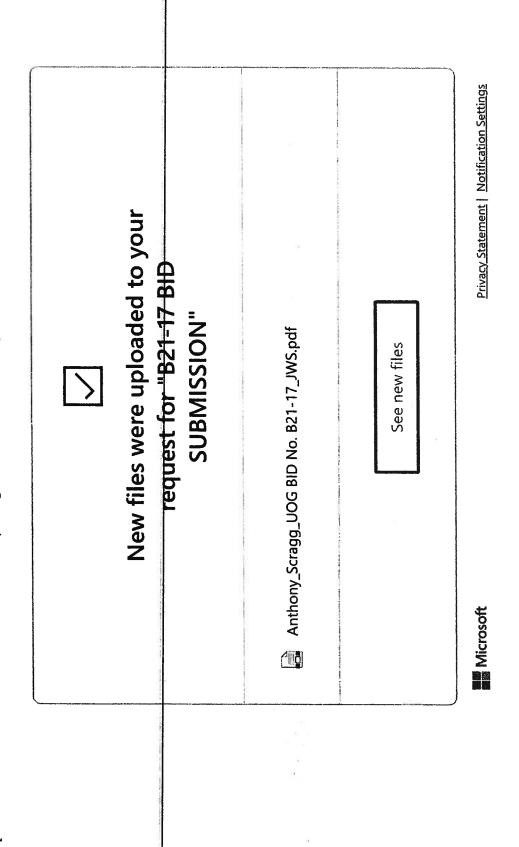
From: SharePoint Online <no-reply@sharepointonline.com>

Sent: Monday, December 6, 2021 11:33 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Anthony Scragg uploaded new files to your request for B21-17 BID SUBMISSION

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]



1/2

12/16/21, 11:46 AM

# UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 8:18 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Nel <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Bangayan <NBangayan@jbmoderntech.com>

Håfa Adai & Good Morning

Please utilize the link below to drop your bid submission into our share folder.

https://uguamliveuog-

my.sharepoint.com/:f/g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-CDg

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Bid Opening will be conducted @ 3:15pm this afternoon, via ZOOM link below:

### https://zoom.us/j/92050190340

### Good Luck & Stay Safe!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### UOG Procurement

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

UNIVERSITY OF

Intretendit Cuahan

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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Anthony Scragg <anthonys@jwsguam.com>

Mon 12/6/2021 11:02 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: robertp@jwsguam.com <robertp@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good Morning,

Earlier today, JWS, uploaded our PDF file for UOG IFB B21-17 However, we now have to make a correction to an incorrect document within our electronic submission. We are preparing our revised submission , but I just wanted to let UOG Procurement know that we will be uploading a second PDF to the drop box. Please use this second file with the later upload timestamp as JWS' final bid submission. Please let me know if there is any issue with uploading a revised submission. I will shoot an email after uploading the new PDF, to confirm that it has been received

Be in touch soon.

Sincerely,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Direct Line: 671-588-5981 Cell Line: 671-864-8554

Fax: 671-649-0053

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12/16/21, 11:47 AM

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 8:18 AM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Håfa Adai & Good Moming,

Please utilize the link below to drop your bid submission into our share folder.

### https://uguamliveuog-

my.sharepoint.com/:f:/g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-CDg

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### https://zoom.us/j/92050190340

Please let me know if you have any issues.

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Signature Logo

**UOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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12/16/21, 11:47 AM

# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 11:07 AM

To: Anthony Scragg <anthonys@jwsguam.com>

Cc: robertp@jwsguam.com <robertp@jwsguam.com>

Håfa Adai & Good Morning,

Noted. Please be advised I will delete the current file uploaded.

You may upload your final submission before deadline at 2pm. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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12/16/21, 11:47 AM

From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Monday, December 6, 2021 11:01 AM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: robertp@jwsguam.com <robertp@jwsguam.com>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good Morning,

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Be in touch soon.

Sincerely,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: <u>anthonys@jwsgnam.com</u>

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 8:18 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Håfa Adai & Good Morning,

Please utilize the link below to drop your bid submission into our share folder.

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my.sharepoint.com/:f//g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-CDg

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Bid Opening will be conducted @ 3:15pm this afternoon, via ZOOM link below:

# https://zoom.us/j/92050190340

Please let me know if you have any issues.

Good Luck & Stay Safe!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,



### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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B21-17286

# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Anthony Scragg <anthonys@jwsguam.com>

Mon 12/6/2021 11:19 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: robertp@jwsguam.com <robertp@jwsguam.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you. The new PDF has just been uploaded. Please confirm receipt of new PDF file.

I am also going to head over to turn in the Bid security.

Appreciate all the help!

Regards,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 11:07 AM

**To:** Anthony Scragg <anthonys@jwsguam.com>

Cc: robertp@jwsguam.com

Håfa Adai & Good Morning,

Noted. Please be advised I will delete the current file uploaded.

You may upload your final submission before deadline at 2pm. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature Logo

Office: 671-735-2925

Fax: 671-735-3010

uog, bids@triton.uog, edu

12/16/21, 11:47 AM

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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Monday, December 6, 2021 11:01 AM

To: UOG Procurement Bids < <u>uog. bids@triton.uog.edu</u>>

Cc: robertp@jwsguam.com <robertp@jwsguam.com>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good Morning,

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Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids < <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a>>

Sent: Monday, December 6, 2021 8:18 AM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

### Håfa Adai & Good Morning,

Please utilize the link below to drop your bid submission into our share folder.

### https://uguamliveuog-

my.sharepoint.com/:f:/g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-CDg

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# https://zoom.us/j/92050190340

Please let me know if you have any issues.

Good Luck & Stay Safe!

Si Yu'os ma'ase' & Have a nice day!,

2/6

12/16/21, 11:47 AM

Mail - UOG Procurement Bids - Outlook

Signature Logo

**UOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Nel Bangayan <NBangayan@jbmoderntech.com>

Mon 12/6/2021 12:18 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

We just uploaded the bid submit tap of ALL

**BUSINESS ENTERPRISES CORPORATION, 1** 

Would like to know if went thru or you received

it. Your advise is great appreciated.

Thank you.

Nelia Bangayan

**President** 

671-483-8810

nbangayan@jbmoderntech.com

Sent from my iPhone

On Dec 6, 2021, at 8:18 AM, UOG Procurement Bids <uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Morning,

Please utilize the link below to drop your bid submission into our share folder.

https://uguamliveuog-

my.sharepoint.com/:f://g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-

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Respectfully,

**UOG Procurement** Office: 671-735-2925

uog.bids@triton.uog.edu Fax: 671-735-3010

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# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Michael Ecalnea <mike@tonysworkshop.com>

Mon 12/6/2021 12:26 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

Cc: tonysworkshop@teleguam.net <tonysworkshop@teleguam.net>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Confirmed receipt of amendment #6.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 8:18 AM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - Bid Opening & Bid Submission Link

Håfa Adai & Good Morning,

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my.sharepoint.com/:f:/g/personal/uog\_bids\_triton\_uog\_edu/ErgOSJyjK8BOmMLg7Z\_Mik0BcEgLdN2tS9bKcQWpKJ-CDg

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Please let me know if you have any issues.

### Good Luck & Stay Safe!

Si Yu'os ma'ase' & Have a nice day!,

12/16/21, 11:48 AM

Respectfully,

### **UDG Procurement**

Signature

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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www.avast.com

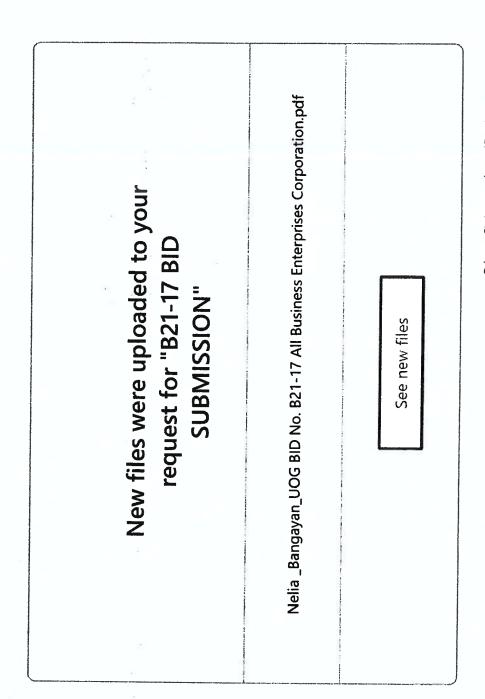
# Nelia Bangayan uploaded new files to your request for B21-17 BID SUBMISSION

SharePoint Online <no-reply@sharepointonline.com>

Mon 12/6/2021 2:29 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

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SharePoint Online <no-reply@sharepointonline.com>

Mon 12/6/2021 2:30 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Nelia\_Bangayan\_UOG BID NO 1. B21-17 ALL BUSINESS ENTERPRISES New files were uploaded to your request for "B21-17 BID **SUBMISSION**" See new files CORPORATION

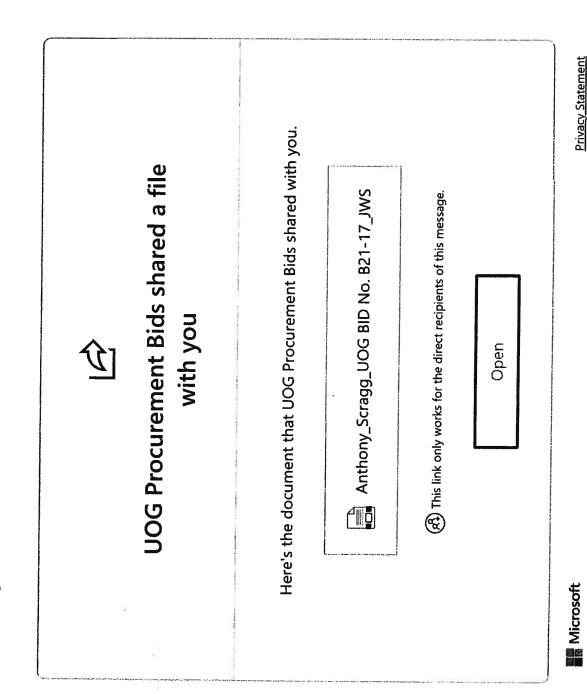
Privacy Statement | Notification Settings

# UOG Procurement Bids shared "Anthony\_Scragg\_UOG BID No. B21-17\_JWS" with you.

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 4:12 PM

To: John Leon Guerrero < johnlg@triton.uog.edu>



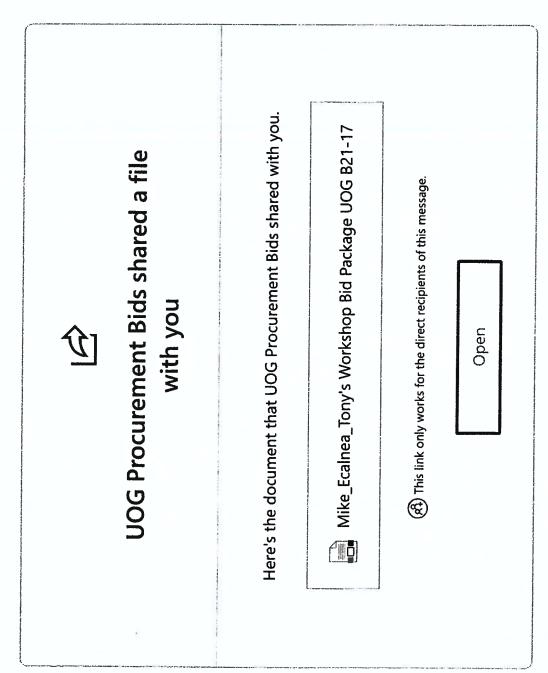
Mail - UOG Procurement Bids - Outlook

UOG Procurement Bids shared "Mike\_Ecalnea\_Tony's Workshop Bid Package UOG B21-17" with you.

UOG Procurement Bids < uog.bids@triton.uog.edu>

Mon 12/6/2021 4:12 PM

To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>



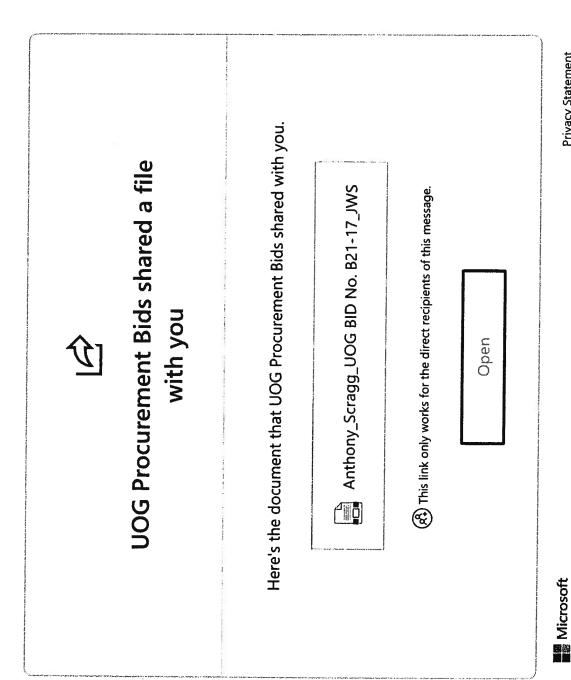
Mail - UOG Procurement Bids - Outlook

# UOG Procurement Bids shared "Anthony\_Scragg\_UOG BID No. B21-17\_JWS" with you.

UOG Procurement Bids < uog.bids@triton.uog.edu>

Mon 12/6/2021 4:13 PM

To: Leon Guerrero, Glenn <glennlg@triton.uog.edu>



John Leon Guerrero successfully used the link to "Anthony\_Scragg\_UOG BID No. B21-17\_JWS"

SharePoint Online <no-reply@sharepointonline.com>

Mon 12/6/2021 4:14 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

John Leon Guerrero < johnlg@triton.uog.edu > has opened the link you sent to "Anthony\_Scragg\_UOG BID No. B21-17\_JWS"! If this is unexpected, you can open your document and manage its sharing permissions by clicking here.

This link only works for the direct recipients of this message.

Anthony\_Scragg\_UOG BID No. B21-17\_JWS

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Notification Settings

#### **Bid Status**

Jessiree A. Patao <alvarezjm@triton.uog.edu>

Tue 12/7/2021 11:14 AM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Kaimana Kalei Terlaje <aquinok6970@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

As requested, please see attached Bid Status for JWS referencing B21-17.

Si Yu'os ma'åse',



Jessiree A. Patao

Buyer II

Procurement

<u>alvarezjm@triton.uog.edu</u> Office: +1 (671) 735-2925

https://www.uog.edu/procurement

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12/16/21, 11:54 AM

# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - ANALYSIS MEMO TO PRESIDENT

Abigail Martin <martinarp@triton.uog.edu>

Tue 12/7/2021 5:29 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Hi Em,

To reiterate our conversation, table 2.0 is optional and is not part of the bid determination. See attached for the signed copy.

Thanks,

Abby

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Tuesday, December 7, 2021 4:28 PM

To: Abigail Martin <martinarp@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - ANALYSIS MEMO TO PRESIDENT

Hi Abby,

Kindly requesting your urgent review and approval. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 



INIBETSEDAT CUÁHAN

UNIVERSITY OF

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

UOG Procurement Bids < uog.bids@triton.uog.edu>

Mon 12/6/2021 5:03 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Bcc: John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Anthony Scragg <anthonys@jwsguam.com>; Teddy Garcia <teddygarcia@jrngu.com>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Nel <smcauliffe@triton.uog.edu>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; <arnel.francisco@carrier.com>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; joeann@mjmetc.com <joeann@mjmetc.com>; arnel.francisco@carrier.com Bangayan <NBangayan@jbmoderntech.com>

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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in error, please destroy immediately.

# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Lynn Scott <lynn@gesiworld.com>

Mon 12/6/2021 6:08 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please confirm the each of these units conform to the By American Act & are copper coil with copper fin spec'd

Thank you

Lynn Scott

President & CEO

Green Energy Solutions, Inc.

Office: 671-647-8111 ext. 1078

Mobile: 671-686-5557

Email: lynn@gesiworld.com

Website:www.gesiguam.com

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 5:03 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,	VOG Procurement	Office: 671-735-2925	Fax: 671-735-3010	uog.bids@triton.uog.edu	,

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

GPE INC <guampacific@gmail.com>

Tue 12/7/2021 7:28 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Received, thank you

Sent from my iPhone

On Dec 6, 2021, at 5:03 PM, UOG Procurement Bids < uog.bids@triton.uog.edu> wrote:

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu



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# Mail - UOG Procurement Bids - Outlook

RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Michael Ecalnea <mike@tonysworkshop.com>

Tue 12/7/2021 7:38 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

Cc: tonysworkshop@teleguam.net <tonysworkshop@teleguam.net>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Confirmed receipt of notice of intent of award.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 5:03 PM

To: Procurement Office procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD DE CONTROLLE DE CO

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Office: 671-735-2925

Signature Logo

Fax: 671-735-3010

uog.bids@triton.uog.edu

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www.avast.com

# RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Julie Sugatan <tonysworkshop@teleguam.net>

Tue 12/7/2021 9:57 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office cprocurementoffice@triton.uog.edu>

Cc: mike@tonysworkshop.com <mike@tonysworkshop.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good morning,

Please see attached license and equipment submittals.

Thanks,



P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

TEL: (671) 637-3060

FAX: (671) 637-3139

Website: www.tonysworkshop.com

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From: Michael Ecalnea <mike@tonysworkshop.com>

Sent: Tuesday, December 7, 2021 7:37 AM

To: 'UOG Procurement Bids' <uog.bids@triton.uog.edu>; 'Procurement Office' <procurementoffice@triton.uog.edu>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD 

1/4

Confirmed receipt of notice of intent of award.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com



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From: UOG Procurement Bids < uog.bids@triton.uog.edu>

Sent: Monday, December 6, 2021 5:03 PM

Io: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

12/16/21, 11:57 AM

Respectfully, Signature Logo

#### **UOG Procurement**

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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12/16/21, 11:57 AM

# Fw: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

UOG Procurement Bids <uog.bids@triton.uog.edu>

Tue 12/7/2021 10:08 AM

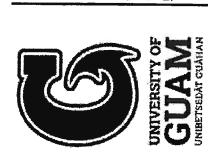
To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Hi John,

Please review ASAP and let me know; need to issue award at soonest. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

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From: Julie Sugatan <tonysworkshop@teleguam.net>

Sent: Tuesday, December 7, 2021 9:56 AM

**To:** UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

GPE INC <guampacific@gmail.com>

Tue 12/7/2021 10:11 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

This is to inform your office that an Appeal to the OPA will be filed today or tomorrow in this IFB Bid 21-17. Thank you.



Virus-free. www.avg.com

On Mon, 6 Dec 2021 at 17:03, UOG Procurement Bids < uog bids @triton.uog edu > wrote:

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



**UOG Procurement** Respectfully,

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

John Leon Guerrero < johnlg@triton.uog.edu>

Tue 12/7/2021 10:57 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Hafa Adai Emily

I would recommend to proceed.

Regards,

John LG

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Tuesday, December 7, 2021 10:08 AM

To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: Fw: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Hi John,

Please review ASAP and let me know; need to issue award at soonest. Thanks!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

12/16/21, 12:08 PM



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Ilie Sugatan <tonysworkshop@teleguam.net>

esday, December 7, 2021 9:56 AM

Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office curementoffice@triton.uog.edu>

@tonysworkshop.com <mike@tonysworkshop.com>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good morning,

Please see attached license and equipment submittals.

Thanks,

Julie



P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

TEL: (671) 637-3060

FAX: (671) 637-3139

Website: www.tonysworkshop.com

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From: Michael Ecalnea <mike@tonysworkshop.com>

Sent: Tuesday, December 7, 2021 7:37 AM

**To:** 'UOG Procurement Bids' <uog.bids@triton.uog.edu>; 'Procurement Office' <procurementoffice@triton.uog.edu>

Cc: tonysworkshop@teleguam.net

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Confirmed receipt of notice of intent of award.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com

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From: UOG Procurement Bids < <a href="mailto:uog.edu">uog.edu</a>

Sent: Monday, December 6, 2021 5:03 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IEB B21-17 · Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu



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# Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

UOG Procurement Bids < uog.bids@triton.uog.edu>

Tue 12/7/2021 10:59 AM

To: John Leon Guerrero <johnlg@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Noted, with Thanks!

I will issue award.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: John Leon Guerrero < johnlg@triton.uog.edu>

To: UOG Procurement Bids <uog.bids@triton.uog.eau>; Levin Successions and Bids <uog.bids@triton.uog.eau>; Levin Successions and Bids <uog.bids@triton.uog.eau>; Levin Successions and Bids <uod.uog.eaus and B

1/5

12/16/21, 12:09 PM

Cc: Procurement Office cprocurementoffice@triton.uog.edu>

Subject: Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Hafa Adai Emily

I would recommend to proceed.

Regards, John LG From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Tuesday, December 7, 2021 10:08 AM

To: John Leon Guerrero Sjohnlg@triton uog.edu>; Leon Guerrero, Glenn Sglennlg@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: Fw: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Hi John,

Please review ASAP and let me know; need to issue award at soonest. Thanks!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement** Office: 671-735-2925

Fax: 671-735-3010 uog.bids@triton.uog.edu The University of Guam is an equal opportunity provider and employer.

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From: Julie Sugatan <tonysworkshop@teleguam.net>

Sent: Tuesday, December 7, 2021 9:56 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>; Procurement Office <procurementoffice@triton.uog.edu>

Cc: mike@tonysworkshop.com <mike@tonysworkshop.com>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Good morning,

Please see attached license and equipment submittals.

Thanks,



Barrigada, Guam 96921-3066 P.O. Box 23066 GMF

TEL: (671) 637-3060

FAX: (671) 637-3139

Website: www.tonysworkshop.com

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From: Michael Ecalnea <mike@tonysworkshop.com>

Sent: Tuesday, December 7, 2021 7:37 AM

To: 'UOG Procurement Bids' <uog.bids@triton.uog.edu>; 'Procurement Office' <procurementoffice@triton.uog.edu>

Cc: tonysworkshop@teleguam.net

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Confirmed receipt of notice of intent of award.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com



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From: UOG Procurement Bids <<u>uog.bids@triton.uog.edu</u>>

Sent: Monday, December 6, 2021 5:03 PM

**To:** Procurement Office procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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# RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Anthony Scragg <anthonys@jwsguam.com>

Tue 12/7/2021 11:29 AM

Cc: robertp@jwsguam.com <robertp@jwsguam.com>; rogerj@jwsguam.com <rogerj@jwsguam.com>; John Scragg <johnscragg9@aol.com>; 'Louise J' douisej@jwsguam.com>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Good afternoon,

Data Submittals for the Dunham Bush equipment being offered, as well as a copy of JWS Guam Business License. Please confirm receipt of this email and Confirming receipt of attached documents "B21-17 Abstract Analysis" & "B21-17\_Notice of Intent to Award". In addition to this I have attached finalized supporting documents. Let me know if you have any questions regarding either attachments.

Sincerely,

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Direct Line: 671-588-5981 Cell Line: 671-864-8554

Fax: 671-649-0053

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Sent: Monday, December 6, 2021 5:03 PM

13

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature Logo

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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### Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7, 2021

chrisap@pacificlawyers.law <chrisap@pacificlawyers.law>

Wed 12/8/2021 12:19 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: djberman@pacificlawyers.law <djberman@pacificlawyers.law>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

To Whom It May Concern:

Please see attached Freedom of Information Act Request from Attorney Daniel J. Berman dated December 8, 2021.

The original will follow by Certified Mail, Return Receipt Requested.

Regards,

Christine A. Pangelinan, Secretary to Daniel J. Berman, Esq.

Berman Law Firm

111 W Chalan Santo Papa Ste 503

Hagatna, Guam 96910

Tel: (671) 477-2778

Fax: (671) 477-4366

Email: chrisap@pacificlawyers.law

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#### Berman Law Firm

111 W Chalan Santo Papa Ste 503

Hagatna GU 96910

1/2

(671) 477-2778 (Office)

(671) 477-4366 (Fax)

Guam@PacificLawyers.law

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UOG Procurement Bids <uog.bids@triton.uog.edu>

Thu 12/9/2021 2:34 PM

To: Jonas Macapinlac <jmac@triton.uog.edu>

Hi Jonas,

See FOIA received earlier today.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **VOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

uog.bids@triton.uog.edu

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From: chrisap@pacificlawyers.law <chrisap@pacificlawyers.law>

Sent: Wednesday, December 8, 2021 12:18 PM

To: UOG Procurement Bids <uog.bids@triton.uog.eau>

https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhiLWZkZDk1ZDViZmY4MwAQADMtjk1NV0A%2Bi5P28h3Wr2Y%3D

Cc: djberman@pacificlawyers.law <djberman@pacificlawyers.law> 12/16/21, 12:13 PM

Subject: Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7,

2021

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

To Whom It May Concern:

Please see attached Freedom of Information Act Request from Attorney Daniel J. Berman dated December 8, 2021.

The original will follow by Certified Mail, Return Receipt Requested.

Regards,

Christine A. Pangelinan, Secretary to Daniel J. Berman, Esq.

Berman Law Firm

111 W Chalan Santo Papa Ste 503

Hagatna, Guam 96910

Tel: (671) 477-2778

Fax: (671) 477-4366

Email: <u>chrisap@pacificlawyers.law</u>

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#### **Berman Law Firm**

111 W Chalan Santo Papa Ste 503

Hagatna GU 96910

(671) 477-2778 (Office)

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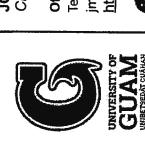
### Re: Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7, 2021

Jonas Macapinlac <jmac@triton.uog.edu>

Thu 12/9/2021 3:05 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Received. Thank you.



#### JONAS D. MACAPINLAC

Chief Marketing & Communications Officer

#### Office of the President

Tel: +1 (671) 735-2944 https://www.uog.edu imac@triton.uog.edu







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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Thursday, December 9, 2021 2:34 PM

To: Jonas Macapinlac < jmac@triton.uog.edu>

Subject: Fw: Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December

Hi Jonas,

12/16/21, 12:11 PM



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 <u>uog.bids@triton.uog.edu</u> The University of Guam is an equal opportunity provider and employer.

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From: chrisap@pacificlawyers.law <chrisap@pacificlawyers.law>

Sent: Wednesday, December 8, 2021 12:18 PM

Io: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: djberman@pacificlawyers.law <djberman@pacificlawyers.law>

Subject: Freedom of Information Act Request for Documents - UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment Award dated December 7,

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To Whom It May Concern:

Please see attached Freedom of Information Act Request from Attorney Daniel J. Berman dated December 8, 2021.

The original will follow by Certified Mail, Return Receipt Requested.

12/16/21, 12:11 PM

Christine A. Pangelinan, Secretary to Daniel J. Berman, Esq.

Berman Law Firm

111 W Chalan Santo Papa Ste 503

Hagatna, Guam 96910

Tel: (671) 477-2778

Fax: (671) 477-4366

Email: chrisap@pacificlawyers.law

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### UOG Procurement Bids < uog.bids@triton.uog.edu>

Tue 12/7/2021 11:18 AM

To: Anthony Scragg <anthonys@jwsguam.com>; Nel Bangayan <NBangayan@jbmoderntech.com>; Michael Ecalnea <mike@tonysworkshop.com>; tonyworkshop@teleguam.net <tonyworkshop@teleguam.net>

alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; GPE INC <guampacific@gmail.com>; arnel.francisco@carrier.com <arnel.francisco@carrier.com>; <camille@abilitysolutionsllc.biz>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Camacho, Rochelle Cc: Procurement Office <procurementoffice@triton.uog.edu>; John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Teddy Garcia joeann@mjmetc.com <joeann@mjmetc.com>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <teddygarcia@jrngu.com>; Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net <arthur.adriano@medpahrmusa.net> <rochelle.camacho2@carrier.com>; Engineer Surface Solutions <engineers.surfacesolutions@gmail.com>

Bcc: John Leon Guerrero <johnlg@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>

Håfa Adai & Good Morning,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010

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Jog.bids@triton.uog.edu

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Mail - UOG Procurement Bids - Outlook

12/16/21, 12:15 PM

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## Re: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD

GPE INC <guampacific@gmail.com>

Tue 12/7/2021 11:46 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

tonyworkshop@teleguam.net <tonyworkshop@teleguam.net>; Procurement Office <procurementoffice@triton.uog.edu>; John Ryan <jtryan@me.com>; Deo Lagman <arthur.adriano@medpahrmusa.net>; alex.pearson@onepacgrp.com <alex.pearson@onepacgrp.com>; amel.francisco@carrier.com <arnel.francisco@carrier.com <arnel.francisco@carrier.com>; <camille@abilitysolutionsIlc.biz>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Camacho, Rochelle <DLagman@jbmoderntech.com>; Teddy Garcia <teddygarcia@jrngu.com>; Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net Cc: Anthony Scragg <anthonys@jwsguam.com>; Nel Bangayan <NBangayan@jbmoderntech.com>; Michael Ecalnea <mike@tonysworkshop.com>; joeann@mjmetc.com <joeann@mjmetc.com>; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez <chuck.deesoniis@gmail.com>; Camille Zapanta <rochelle.camacho2@carrier.com>; Engineer Surface Solutions <engineers.surfacesolutions@gmail.com>

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On Tue, 7 Dec 2021 at 11:18, UOG Procurement Bids < <u>uog bids@triton.uog.edu</u> > wrote:

Håfa Adai & Good Morning,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**VOG Procurement** Office: 671-735-2925

Fax: 671-735-3010



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## RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD

Michael Ecalnea <mike@tonysworkshop.com>

Tue 12/7/2021 12:11 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Cc: tonysworkshop@teleguam.net <tonysworkshop@teleguam.net>; 'Tony Mendoza' <tony@tonysworkshop.com>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Attached signed notice of award.

Thanks,

Mike

P.O. Box 23066 GMF

Barrigada, Guam 96921-3066

Mobile: (671) 888-3159

Tel: (671) 637-3060

Fax: (671) 637-3139

Website: www.tonysworkshop.com

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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Tuesday, December 7, 2021 11:18 AM

To: Anthony Scragg <anthonys@jwsguam.com>; Nel Bangayan <NBangayan@jbmoderntech.com>; Michael Ecalnea <mike@tonysworkshop.com>; tonyworkshop@teleguam.net

Cc: Procurement Office <procurementoffice@triton.uog.edu>; John Ryan <jtryan@me.com>; Deo Lagman <DLagman@jbmoderntech.com>; Teddy Garcia Cc: Procurement Office cc

2

12/16/21, 12:16 PM

<teddygarcia@jrngu.com>; Nacia Atalig <nacia@abilitysolutionsllc.biz>; arthur.adriano@medpahrmusa.net; alex.pearson@onepacgrp.com; GPE INC <guampacific@gmail.com>; arnel.francisco@carrier.com; joeann@mjmetc.com; Lynn Scott <lynn@gesiworld.com>; Chuck Sanchez

<chuck.deesoniis@gmail.com>; Camille Zapanta <camille@abilitysolutionsllc.biz>; Llarenas, Bernard <Bernard.Llarenas2@carrier.com>; Gene Bangayan <GeneBangayan@jbmoderntech.com>; Camacho, Rochelle <rochelle.camacho2@carrier.com>; Engineer Surface Solutions

<engineers.surfacesolutions@gmail.com>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD

Håfa Adai & Good Morning,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

Signature UOG Pr

**VOG Procurement** 

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

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## Re: UOG IFB B21-17: Purchasing of HVAC Equipment - BID STATUS & NOTICE OF AWARD

Mail - UOG Procurement Bids - Outlook

Engineer Surface Solutions <engineers.surfacesolutions@gmail.com>

Thu 12/9/2021 4:05 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Acknowledge receipt. Thank you.

#### Emer Ocampo

On Tue, Dec 7, 2021 at 11:18 AM UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

**1006 Procurement** Respectfully, Signature Logo

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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#### **Surface Solutions**

928 N Marine Corps Dr, Suite 101, Tamuning GU 96913

(671) 482-6555

engineers.surfacesolutions@gmail.com

#### **RE: BID IFB B21-17**

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Fri 12/10/2021 9:46 AM

To: Gene Bangayan < GeneBangayan@jbmoderntech.com>

Cc: Procurement Office <procurementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Håfa Adai & Good Morning Mr. Bangayan

Pursuant to bid requirements as well as continuous reminders on emails, all information pertaining to UOG IFB/RFPs, which include bid B21-17 must be emailed to uog.bids@triton.uog.edu

recognizes), hence the reason we require all communication/correspondence to be sent to our bids email to ensure it is not missed and it is addressed accordingly as the bid email is frequently monitored throughout each work day by all our personnel. You may cc my personal and procurement office email. I have also identified your email I did not receive any of your emails prior to today as it was directed into my junk folder, (see attachment; it may be something with your domain that the computer address to safe, so hopefully future emails go straight to my inbox. Also, just to be sure we have received your email you may follow-up with a courtesy call

Please forward and send your requests' to our bids email at soonest and we will respond accordingly. Thank you!

~ Morry Christmas & Fappy Folidays ~

Si Yu'os ma'ase' & Have a nice day!



Respectfully,

### Emily G. Gumataotao

SUPPLY MANAGEMENT ADMINISTRATOR PROCUREMENT | ADMIN & FINANCE

Office: 671-735-2925

Fax: 671-735-3010

egg<u>umataotao@triton.uog.edu</u>

[mailto:gumataotaoemilyg@triton.uog.edu%0dProcurementoffice@triton.uog.edu]Procurementoffice@triton.uog.edu

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From: Gene Bangayan [mailto:GeneBangayan@jbmoderntech.com]

Sent: Thursday, December 9, 2021 3:19 PM

Fo: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: FW: BID IFB B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Emily, this to follow if your received our email below, dated 12-7-21. This follow up serve as our legal

and final protest and we hope you will response on our FOIA on Tony's Work Shop submittal and its brochures

material data and same with JWS too. We appreciate your immediate response on this matter.

Thank you.

Gene M. Bangayan

CC: Corporate Lawyer.

ce colporate camper

**From:** Gene Bangayan

Sent: Tuesday, December 7, 2021 4:55 PM

fo: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Procurement Office procurementoffice@triton.uog.edu>

Subject: BID IFB B21-17

EMILY, on behalf of wife and her company, All business Enterprises Corporation I just consulted our corporate adviser of All Business Enterprises Corporation

with regards on my wife email to you on the Sunshine Act, "FOIA" and according to the advice the request serve as a protect and that you can't award until

you satisfy the Sunshine Act, " FOIA ". My wife emailed you requesting Tony's work Shop submittal and the brochures that you had asked to Tony' Work

and also the JWS submittal. We appreciate your advice on the matter.

Thank you.

Gene M. Bangayan

Mail - UOG Procurement Bids - Outlook

## RE: UOG Bid Result - IFB B21-17

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Fri 12/10/2021 10:19 AM

To: Nel Bangayan <NBangayan@jbmoderntech.com>

Cc: Procurement Office <procurementoffice@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Håfa Adai & Good Morning Nel

As addressed to your husband's email, Mr. Gene Bangayan, pursuant to bid requirements as well as continuous reminders on emails, all information pertaining to UOG IFB/RFPs, which include bid B21-17 must be emailed to uog.bids@triton.uog.edu

recognizes), hence the reason we require all communication/correspondence to be sent to our bids email to ensure it is not missed and it is addressed accordingly as the bid email is frequently monitored throughout each work day by all our personnel. You may cc my personal and procurement office email. I have also identified your email I did not receive any of your emails prior to today as it was directed into my junk folder, (see attachment; it may be something with your domain that the computer address to safe, so hopefully future emails go straight to my inbox. Also, just to be sure we have received your email you may follow-up with a courtesy call

Please forward and send your requests' to our bids email at soonest and we will respond accordingly. Thank you!

~ Morry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!



Respectfully,

### Emily G. Gumataotao

SUPPLY MANAGEMENT ADMINISTRATOR

PROCUREMENT | ADMIN & FINANCE

Office: 671-735-2925

Fax: 671-735-3010

eggumataotao@triton.uoq.edu

[mailto:gumataotaoemilyg@triton.uog.edu%OdProcurementoffice@triton.uog.edu]Procurementoffice@triton.uog.edu

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From: Nel Bangayan [mailto:NBangayan@jbmoderntech.com]

Sent: Monday, December 6, 2021 6:23 PM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG Bid Result - IFB B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

#### December 6, 2021

Hi Emily, the bid had just finished this afternoon. I was surprise how fast the Intent to Award was issued. I would like to request thru Sunshine Act FOIA the submittal copy of Tony's Workshop and JWS including the ACCU Unit Brochures. I appreciate your advice when it is available for pick up. Thank you.

Nelia Bangayan All Business Enterprises Corp Mobile: 671 483-8310

12/16/21, 12:21 PM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 12/10/2021 11:11 AM

To: Gene Bangayan <GeneBangayan@jbmoderntech.com>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Håfa Adai & Good Morning Gene,

Confirming receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: Gene Bangayan <GeneBangayan@jbmoderntech.com>

12/16/21, 12:21 PM

Sent: Friday, December 10, 2021 10:59 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Subject: FW: EMAIL FOIA: BID IFB B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Emily, re-forward due to undelivered.

----Original Message----

From: Gene Bangayan

Sent: Friday, December 10, 2021 10:54 AM

To: uog.bids@triton.guam.edu

Cc: Procurement Office <procurementoffice@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Subject: FW: EMAIL FOIA: BID IFB B21-17

Hi Emily, please see the attachment on the above subject matter for your perusal..

Kindly advice upon received.. stay safe.

Thank you.

Gene

----Original Message----

From: xerox@moderntech.com <xerox@moderntech.com>

Sent: Friday, December 10, 2021 10:42 AM

To: Gene Bangayan <GeneBangayan@jbmoderntech.com>

Subject: Scanned from a Xerox Multifunction Printer

Please open the attached document. It was sent to you using a Xerox multifunction printer.

Attachment File Type: pdf, Multi-Page

Multifunction Printer Location:

Multifunction Printer Name: XRX9C934E9753B0

C2a652fdf10c34e4f9e94369090abfd04%7C0%7C637746947959632294%7CUnknown%7CTWEpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIj oiV2luMzIiLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C0&sdata=JUobRK9G3o%2BxY9Ea0Oayuufi5sQxrZP19HM3oTr2KDM%3D&reserve  $\underline{url=http\%3A\%2F\%2F\%2Fwww.xerox.com\%2F\&data=04\%7C01\%7Cuog.bids\%40triton.uog.edu\%7Cc303d361d8924554a9b108d9bb785ca2\%7}{}$ For more information on Xerox products and solutions, please visit https://nam04.safelinks.protection.outlook.com/?

12/16/21, 12:21 PM

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 12/10/2021 11:21 AM

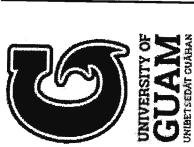
To: Jonas Macapinlac <jmac@triton.uog.edu>

Cc: Procurement Office cc Procurementoffice@triton.uog.edu>

Hi Jonas,

Another FOIA received. See below and email attached.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: Gene Bangayan <GeneBangayan@jbmoderntech.com>

Sent: Friday, December 10, 2021 10:59 AM

Cc: Gumataotao, Emily <eggumataotao@triton.uog.edu>

12/16/21, 12:21 PM

Subject: FW: EMAIL FOIA: BID IFB B21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Emily, re-forward due to undelivered.

----Original Message----

From: Gene Bangayan

Sent: Friday, December 10, 2021 10:54 AM

fo: uog.bids@triton.guam.edu

Subject: FW: EMAIL FOIA : BID IFB B21-17

Hi Emily, please see the attachment on the above subject matter for your perusal...

Kindly advice upon received.. stay safe.

Thank you.

----Original Message----

From: xerox@moderntech.com <xerox@moderntech.com>

Sent: Friday, December 10, 2021 10:42 AM

To: Gene Bangayan <GeneBangayan@jbmoderntech.com>

Subject: Scanned from a Xerox Multifunction Printer

Please open the attached document. It was sent to you using a Xerox multifunction printer.

Attachment File Type: pdf, Multi-Page

Multifunction Printer Location:

Multifunction Printer Name: XRX9C934E9753B0

For more information on Xerox products and solutions, please visit https://nam04.safelinks.protection.outlook.com/? https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My042DhiLWZkZDk1ZDViZmY4MwAQAOQMShjkY0e%2FqJpwux8UYk8%3D

oiV2luMzIiLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C0&sdata=JUobRK9G3o%2BxY9Ea0Oayuufi5sOxrZP19HM3oTr2KDM%3D&reserve C2a652fdf10c34e4f9e94369090abfd04%7C0%7C637746947959632294%7CUnknown%7CTWEpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIj <u>url=http%3A%2F%2Fwww.xerox.com%2F&amp;data=04%7C01%7Cuog.bids%40triton.uog.edu%7Cc303d361d8924554a9b108d9bb785ca2%7</u> 0=p

Mail - UOG Procurement Bids - Outlook

## JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

Robert Perez <robertp@jwsguam.com>

Tue 12/7/2021 1:20 PM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: 'John Scragg' < johnscragg9@aol.com>; UOG Procurement Bids < uog.bids@triton.uog.edu>; Procurement Office < procurementoffice@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Gumataotao,

Please see attached letter of protest.

Kindly acknowledge receipt.

Thank you. Sincerely,

Roberto Perez

JWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

**Direct Line:588-5979** 

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



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From: Anthony Scragg <anthonys@jwsguam.com>

Sent: Tuesday, December 7, 2021 11:28 AM

To: 'UOG Procurement Bids' <uog.bids@triton.uog.edu>; 'Procurement Office' <procurementoffice@triton.uog.edu>

Cc: robertp@jwsguam.com; rogerj@jwsguam.com; John Scragg <johnscragg9@aol.com>; 'Louise J' <louisej@jwsguam.com>; B 12 12 24 8 https://outlook.office365.com/mail/id/AAQKAGQZNmExNWE4LTFmOTYtNDk4My04ZDhiLWZKZDK1ZDViZmY4MwAQAOu%2FIZ%2FSzEcAmpNolsDq3OE%3D

eggumataotao@triton.uog.edu

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Good afternoon,

Data Submittals for the Dunham Bush equipment being offered, as well as a copy of JWS Guam Business License. Please confirm receipt of this email and Confirming receipt of attached documents "B21-17 Abstract Analysis" & "B21-17\_Notice of Intent to Award". In addition to this I have attached finalized supporting documents. Let me know if you have any questions regarding either attachments.

Sincerely,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

<u> Email: anthony:@jwcguam.com</u>

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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**From:** UOG Procurement Bids <<u>uog.bids@triton.uog.edu</u>>

Sent: Monday, December 6, 2021 5:03 PM

To: Procurement Office curementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully, Signature

**UOG Procurement** 

Office: 671-735-2925

Logo\_

Fax: 671-735-3010

uog.bids@triton.uog.edu

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# Re: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

UOG Procurement Bids <uog.bids@triton.uog.edu>

Fri 12/10/2021 8:47 AM

To: robertp@jwsguam.com <robertp@jwsguam.com>

Cc: 'John Scragg' <johnscragg9@aol.com>; **Procurement Office <procurementoffice@triton.uog.edu>**; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Håfa Adai & Good Morning Mr. Perez,

Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, UOG finds no merit to your complaint because Tony's Workshop's bid submitted Asa Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest concerning the in response to UOG-IFB-B21-17 complied with the IFB's specifications. Please see Tony's Workshop's Bid submitted in response to UOG-IFB-B21-17 (Purchasing of HVAC Equipment), and the brochure for the equipment bid by Tony's Workshop which you requested, and which are attached herein. UOG's award forUOG-IFB-B21-17 (Purchasing of HVAC Equipment). Until you do so, UOG will treat this matter as a complaint and not a Protest courtesy I have also attached to this email an excerpt from UOG's Procurement Regulations containing Section 9.2.3.1 and Section 9.2.3.3.

Thank you & Stay safe!

## ~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: Robert Perez <robertp@jwsguam.com>

in error, please destroy immediately.

12/16/21, 12:22 PM

Sent: Tuesday, December 7, 2021 1:19 PM

**lo:** Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Scragg' < johnscragg 9@aol.com>; UOG Procurement Bids < uog.bids@triton.uog.edu>; Procurement Office < procurementoffice@triton.uog.edu>

Subject: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Gumataotao,

Please see attached letter of protest.

Kindly acknowledge receipt.

Thank you.

Roberto Perez

Sincerely,

JWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

**Direct Line:588-5979** 

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



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https://outlook.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYtNDk4My04ZDhit\_WZkZDk1ZDViZmY4MwAQAOu%2FIZ%2FSzEcAmpNolsDq3OE%3D

**Cc:** robertp@jwsguam.com; rogerj@jwsguam.com; John Scragg <johnscragg9@aol.com>; 'Louise J' <louisej@jwsguam.com>; **To:** 'UOG Procurement Bids' <uog.bids@triton.uog.edu>; 'Procurement Office' <procurementoffice@triton.uog.edu>

eggumataotao@triton.uog.edu

Subject: RE: UOG IFB B21-17 : Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Good afternoon,

Data Submittals for the Dunham Bush equipment being offered, as well as a copy of JWS Guam Business License. Please confirm receipt of this email and Confirming receipt of attached documents "B21-17 Abstract Analysis" & "B21-17\_Notice of Intent to Award". In addition to this I have attached finalized supporting documents. Let me know if you have any questions regarding either attachments.

Sincerely,

### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids < 1008. bids. atriton. 1008. edu>

Sent: Monday, December 6, 2021 5:03 PM

**To:** Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

770

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

### **UDG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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# RE: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

Robert Perez <robertp@jwsguam.com>

Fri 12/10/2021 4:39 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Hafa Adai and Good Afternoon,

Please refer to the attached letter which you will find self- explanatory.

Thank you. Sincerely,

Roberto Perez

JWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

Direct Line:588-5979

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



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From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, December 10, 2021 8:47 AM

To: robertp@jwsguam.com

**Cc:** 'John Scragg' <johnscragg9@aol.com>; Procurement Office <procurementoffice@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Subject: Re: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest concerning the UOG's award forUOG-IFB-B21-17 (Purchasing of HVAC Equipment). Until you do so, UOG will treat this matter as a complaint and not a Protest.

Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, UOG finds no merit to your complaint because Tony's Workshop's bid submitted Asa in response to UOG-IFB-B21-17 complied with the IFB's specifications. Please see Tony's Workshop's Bid submitted in response to UOG-IFB-B21-17 (Purchasing of HVAC Equipment), and the brochure for the equipment bid by Tony's Workshop which you requested, and which are attached herein. courtesy I have also attached to this email an excerpt from UOG's Procurement Regulations containing Section 9.2.3.1 and Section 9.2.3.3.

Thank you & Stay safe!

## ~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,

**UOG Procurement** 

Signature

Office: 671-735-2925

Fax: 671-735-3010

uog.bids@triton.uog.edu

12/16/21, 12:22 PM

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Sent: Tuesday, December 7, 2021 1:19 PM

To: Gumataotao, Emily <<u>eggumataotao@triton.uog.edu</u>>

**Cc:** 'John Scragg' <<u>johnscragg9@aol.com</u>>; UOG Procurement Bids <<u>uog.bids@triton.uog.edu</u>>; Procurement Office <<u>procurementoffice@triton.uog.edu</u>>

Subject: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Gumataotao,

Please see attached letter of protest.

Kindly acknowledge receipt.

Thank you.

Sincerely,

Roberto Perez

IWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

Direct Line:588-5979

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



# Re: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17 : Purchasing of HVAC Equipment

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/13/2021 9:09 AM

To: robertp@jwsguam.com <robertp@jwsguam.com>

Cc: 'John Scragg' <johnscragg9@aol.com>; **Procurement Office <procurementoffice@triton.uog.edu>**; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Håfa Adai & Good Morning Mr. Perez,

Acknowledging receipt of your email.

Thank you & Stay safe!

~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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INIBETSEDAT CUAHAN

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In error, please destroy immediately.

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4/6

From: Robert Perez <robertp@jwsguam.com>

Sent: Friday, December 10, 2021 4:39 PM

To: UOG Procurement Bids < uog. bids@triton.uog.edu>

Cc: John Scragg' <johnscragg9@aol.com>; Procurement Office procurementoffice@triton.uog.edu>; Gumataotao, Emily

<eggumataotao@triton.uog.edu>

Subject: RE: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17: Purchasing of HVAC Equipment

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Hafa Adai and Good Afternoon,

Please refer to the attached letter which you will find self- explanatory.

Thank you. Sincerely,

Roberto Perez

JWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

Direct Line:588-5979

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



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From: UOG Procurement Bids < uog. bids@triton.uog.edu>

**Sent:** Friday, December 10, 2021 8:47 AM

To: robertp@jwsguam.com

Cc: John Scragg' < johnscragg 9@aol.com>; Procurement Office < procurementoffice@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>

Subject: Re: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17: Purchasing of HVAC Equipment

https://o.itlonk.office365.com/mail/id/AAQkAGQzNmExNWE4LTFmOTYINDk4My04ZDhit.WZkZDK1ZDViZmY4MwAQAOu%2FIZ%2FSzEcAmpNoIsDq3OE%3D

12/16/21, 12:22 PM

Håfa Adai & Good Morning Mr. Perez,

Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, UOG finds no merit to your complaint because Tony's Workshop's bid submitted Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest concerning the in response to UOG-IFB-B21-17 complied with the IFB's specifications. Please see Tony's Workshop's Bid submitted in response to UOG-IFB-B21-17 (Purchasing of HVAC Equipment), and the brochure for the equipment bid by Tony's Workshop which you requested, and which are attached herein. UOG's award forUOG-IFB-B21-17 (Purchasing of HVAC Equipment). Until you do so, UOG will treat this matter as a complaint and not a Protest. courtesy I have also attached to this email an excerpt from UOG's Procurement Regulations containing Section 9.2.3.1 and Section 9.2.3.3.

Thank you & Stay safe!

~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: Robert Perez < robertp@jwsguam.com>

Sent: Tuesday, December 7, 2021 1:19 PM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>

Cc: John Scragg' < johnscragg 9@aol.com>; UOG Procurement Bids < uog bids@triton.uog.edu>; Procurement Office < procurementoffice@triton.uog.edu>

Subject: JWS Refrigeration & Air Conditing Ltd - Protest For UOG IFB B21-17: Purchasing of HVAC Equipment

EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Ms. Gumataotao,

Please see attached letter of protest.

Kindly acknowledge receipt.

Thank you. Sincerely,

Roberto Perez

JWS Refrigeration & Air Conditioning, Ltd

290 Tun Jose Salas Street Ste A. Tamuning Guam 96913

email:robertp@jwsguam.com

**Direct Line:588-5979** 

Office:671-646-7662, Cell Phone:671-988-7733,Fax: 671-649-0053



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From: Anthony Scragg <a href="mailto:rom">anthonys@jwsguam.com</a>

Sent: Tuesday, December 7, 2021 11:28 AM

to: 'UOG Procurement Bids' <a href="mailto:vog.edu">vog.edu</a>; 'Procurement Office' <a href="mailto:procurementoffice@triton.uog.edu">procurementoffice@triton.uog.edu</a>

Cc: robertp@jwsguam.com; rogerj@jwsguam.com; John Scragg <<u>johnscragg9@aol.com</u>>; 'Louise J' <<u>louisej@jwsguam.com</u>>;

<u>eggumataotao@triton.uog.edu</u>

Subject: RE: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Good afternoon,

Mail - UOG Procurement Bids - Outlook

Ring offered, as well as a copy of JWS Guam Business License. Please confirm receipt of this email and 17 Abstract Analysis" & "B21-17\_Notice of Intent to Award". In addition to this I have attached finalized supporting documents. Let me know if you have any questions regarding either attachments. Data Submittans

Sincerely,

#### Anthony R. Scragg

Service Department

JWS Refrigeration & A/C Ltd.

Email: anthonys@jwsguam.com

Cell Line: 671-864-8554

Direct Line: 671-588-5981

Fax: 671-649-0053

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From: UOG Procurement Bids <<u>uog.bids@triton.uog.edu</u>>

Sent: Monday, December 6, 2021 5:03 PM

To: Procurement Office < procurementoffice@triton.uog.edu>

Subject: UOG IFB B21-17: Purchasing of HVAC Equipment - BID ABSTRACT ANALYSIS & NOTICE OF INTENT TO AWARD

Håfa Adai & Good Afternoon,

See attached for your reference.

Please confirm receipt. Thank you!

Si Yu'os ma'ase' & Have a nice day!,

Respectfully,



#### **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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## Fw: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG - DON

UOG Procurement Bids <uog.bids@triton.uog.edu>

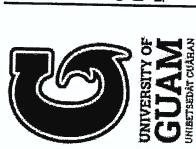
Thu 12/16/2021 8:20 AM

To: Cynthia Guerrero <cguerrero@triton.uog.edu>

Cyn,

This is the email Carm sent to all with copy of determination of need.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

#### **UOG Procurement**

uog.bids@triton.uog.edu Office: 671-735-2925 Fax: 671-735-3010

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From: Carmelita Blas <cgblas@triton.uog.edu>

Sent: Tuesday, September 21, 2021 1:44 PM

Randall V. Wiegand <wiegandr@triton.uog.edu>; Leon Guerrero, Glenn <glennlg@triton.uog.edu>; Sandra Mary Mcauliffe <smcauliffe@triton.uog.edu>; **To:** Christine Mabayag <ckamm@triton.uog.edu>; Gumataotao, Emily <eggumataotao@triton.uog.edu>; Dr. Anita Enriquez <abe@triton.uog.edu>; 

7/7

Rachel F. Cubacub <rachelfc@triton.uog.edu>; Cynthia Guerrero <cguerrero@triton.uog.edu>; Leah Aquino <leah@triton.uog.edu>; MERLITA AZICATE <mazicate@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>; June Calvo <jcalvo@triton.uog.edu> Subject: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Thank you, Chris!! Forwarding to all parties involved for your records and further processing at Procurement.

Carm

From: Christine Mabayag <ckamm@triton.uog.edu>

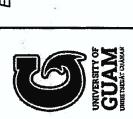
Sent: Tuesday, September 21, 2021 11:37 AM

Io: Carmelita Blas <cgblas@triton.uog.edu>

Subject: Re: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

## Attached is the fully executed RFP.

Si Yu'os ma'åse',



#### Chris Kamminga Mabayag Executive Secretary

Office of the President Tel: (671) 735-2990/1 Fax: (671) 734-2296 ckamm@triton.uog.edu

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From: Carmelita Blas <cgblas@triton.uog.edu>

**Sent:** Monday, September 20, 2021 05:15 PM

To: Christine Mabayag <ckamm@triton.uog.edu>

Subject: UOG RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Hi Chris,

Please forward to the BOR Chair and Treasurer for approval signatures on this RFP bid valued at \$647,574 and send back to me for distribution to all parties involved.

Thank you,

Carm

Si Yu'os ma'ase',



#### Administrative Officer CARMELITA BLAS

**ADMINISTRATION AND FINANCE** Office: +1 (671) 735-2900

cgblas@triton.uog.edu

https://www.uog.edu/administration/administration-finance/

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or phone. Thank you.

should be strictly prohibited. If you have received this message in error, please destroy all copies of the original message (including att.).

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#### IFB Bid Packet



#### **ADMINISTRATION & FINANCE** Consolidated Procurement Office

#### RFP / BID ROUTING SLIP

Date:

June 2, 2021

From:

Emily G. Gumataotao, SMA – UOG Procurement Office

Subject:

UOG BID NO. B21-17: Purchasing of HVAC Units for the University of Guam

Unit:

Administration and Finance

Estimate:

\$647,574

G/L Account Number: 63-2J-363049-T-5

**Budget Verified by:** 

VIRGILIA AQUINO VIRGILIA AC

Signature

Liza J. Provido, Chairperson **UOG Board of Regents** 

Mike W. Naholowaa, Treasurer **UOG Board of Regents** 

Thomas W. Krise, Ph.D., President Review: (Estimate over \$100 K)

Sep 20, 2021 Signature Date Mike Naholowaa Sep 20, 2021 Signature Date

MERLITA AZICATE

Sep 20, 2021 e (Sep 20, 2021 11:14 GMT+10)

Signature

**Date** 

Approved to form:

Anthony R. Camacho, General Counsel

Randall V. Wiegand, Vice President Administration and Finance

Dr. Anita B. Enriquez Senior Vice President & Provost

Abigail Martin, Interim Comptroller Review: (Budget & Procurement)

Sep 20, 2021 Signature **Date** Sep 20, 2021 Anita Borja Enriquez (Sep 20, 2021 10:30 GMT+10) Date

Signature

Sep 20, 2021

Signature

Date

#### \*RETURN TO PROCUREMENT FOR PROCESSING\*

T: +1 671.735.2925 F: +1 671.735.3010 W: www.uog.edu E: uog.bids@triton.uog.edu Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913 The University of Guam is a U.S. Land Grant institution accredited by the Western Association of Schools and Colleges Senior College and University Commission and is an equal opportunity provider and employer.

#### RE: Written Determination of need for HVAC Equipment.

Greetings,

This determination is made to comply with 5 G.C.A. §5249(e) and Section 3.27.3.5, UOG Procurement Regulations. The University of Guam's Facilities Management & Services has determined that the purchasing of new HVAC equipment for UOG's RFK Library, PIP/GIE Building, Science Building, English Communication Building, the Computer Center, the Lectur Hall Auditorium, Marine Lab, and the HSS Building are required to replace old and worn out units that require greater maintenance to operate, and to maintain a healthy climate in those buildings.

SUBMITTED this 15th day of September, 2021 by:

GLENN A. LEON GUERRERO, MBA.

Bla for Jam

Director, UOG Facilities Management & Services

RE: Written Determination to solicit for and use a Multi-Term Contract for UOG-IFB-B21-17 (Purchasing of HVAC Units for UOG)

Greetings,

This determination is made to comply with Section 3.21.4, UOG Procurement Regulations. Prior to the issuance of the UOG-IFB-B21-17 (Purchasing of HVAC Units for UOG), the undersigned hereby determined the following:

- 1. The furnishing of long-term optional services for the HVAC Units, such as services for maintenance and upkeep of the new HVAC Units, services for their disposal, and a replacement or trade in program are required to meet the University's need for new HVAC Units.
- 2. A multi-term contract will serve the best interest of the University by promoting economies in the University's procurement because a change of the vendor providing the optional services stated above from one fiscal year to the next involves phase-in and phase-out costs during transition periods.
- 3. The cost and burden of contract solicitation, award, and administration of procuring contractors to perform the optional services described above may be reduced with a multi-term contract.

SUBMITTED this 15th day of September, 2021 by:

EMILY G. GUMATAOTAO

Supply Management Administrator



#### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

Date:	June :	2, 2021	
TO:	Pacific Daily News (PDN) / Guam Daily Post (POST)		
FROM:	Emily Gumataotao, SMA UOG Procurement Office (uog.bids@triton.uog.edu)		
Please charge	attache	d print advertisemer	nt to our purchase order
Advertisement for:		B21-17 HVAC Units for the University of Guam FMS  Start Land Glenn Leon Guerrero, Director FMS	
Dates to run		<del></del>	VIRGILIA AQUIGAS-P 20, 2021 08:40 GMT+10)  Certified by
3x4 Sizes			63-2J-363049-T-5201035 / FMS Account No. / Department



### INVITATION FOR BID (IFB) UOG BID NO. B21-17

## The University of Guam is soliciting sealed bids for the PURCHASING OF HVAC EQUIPMENT For The University of Guam

Copies of the Bid Package and Instructions and Information may be obtained from:

OFFICE: UOG Procurement Office

TELEPHONE: (671) 735-2925 FAX NO.: (671) 735-3010

LOCATION: UOG Administration Building (ANNEX BUILDING) Mangilao, Guam

E-MAIL: uog.bids@triton.uog.edu

A non-refundable fee of \$25.00 is required to obtain a bid package. Payment may be made via cash, check or credit card at the UOG Business Office, Cashier Services located at the UOG Administration Building Mon-Fri from 8 am - 4 pm by appointment only. Pay by phone is available from 8 am - 4 pm. You may schedule an appointment with our cashier services at 735-2923/45/46, please reference Bid number and title when making payment. Send proof of receipt to the Procurement Office.

In accordance with 5 G.C.A. §5220(a), a digital copy of this solicitation shall be posted on UOG's website at uog.bids@triton.uog.edu. No fees shall be assessed to potential bidders or other parties for accessing or downloading a copy of this solicitation from UOG's website. Potential bidders who access or download a copy of this solicitation from UOG's website must register their contact information with UOG to ensure that they receive any notices regarding any changes or updates to this solicitation. In accordance with 5 G.C.A. §5220(b), UOG shall not be liable for failure to provide notice to any party who accesses or downloads a copy of this solicitation from UOG's website and who fails to register their contact information with UOG as required herein. Please have subject line reference as indicated the UOG Bid number, Bid Title, and your Company or Requestor's Name to register for UOG's Bid Distribution Registry.

Deadline for Submission of Bid Packages is on,	, 2021 on or before
2:00 P.M. via electronic submission to electronic Bid Share folder provided	, 2021 on or before
Office.	by dod Procurement

/s/ Thomas W. Krise, Ph.D. President

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AUTHORIZED FOR ANNOUNCEMENT

Thomas W. Krise, Ph.D. President



### UOG BIDDERS DISTRIBUTION REGISTRY FORM FOR UOG BID NO. B21-017

INFORMATION ON INTERESTED BIDDER FOR BID REGISTRY ENTRY MUST BE RECEIVED BY UGG'S PROCUREMENT OFFICE PRIOR TO RECEIVING ANY DISTRIBUTED COPY SET OF THIS IFB (WITH OR WITHOUT THE BID PEE)

NOTICE:				
ALL DISTRIBUTIONS OF THIS BI CONSOLIDATED PROCUREMENT	D PACKET MUST BE RECORDED IN THE BID'S REGISTRY (LOG) AT UOG'S OFFICE.			
THE BID REGISTRY ALSO PROVI FUTURE AMENDMENTS, ADDEN	IDES THE NECESSARY CONTACT INFORMATION NEEDED TO DISTRIBUTE IDUMS, AND CLARIFICATIONS FOR THIS BID PACKET.			
UOG PAYMENT RECEIPT NO	DATE:// TIME:			
PAYMENT METHOD: [ ] CASH				
NAME OF COMPANY:				
PHYSICAL ADDRESS:				
MAILING ADDRESS:				
CONTACT PERSON & TITLE:				
CONTACT NUMBERS:	TELEPHONE FAX CELLULAR			
E-MAIL ADDRESS:				
OTHER CONTACT INFORMATION OR				
HELPFUL INSTRUCTIONS FOR UOG WHEN FORWARDING				
FUTURE UPDATES:				

UNIVERSITY OF GUAM - CONSOLIDATED PROCUREMENT OFFICE USO STATION, Mangilao, Guam 76923 Tel. (671) 735.2925 Fax. (671) 735.3010 AUS. LAND GRAIT ABTITUTES ACCESSIVED BY THE WISTERN ASSOCIATION OF SCHOOLS & COLLEGES THE CHONGRESTY OF GHAMES AMERICA. CHRONICATION FROM PROVIDER





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## UNIVERSITY OF GUAM INVITATION FOR BID UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM

DATE ISSUED:

JUNE 1, 2021

**UOG SECTION:** 

FACILITIES MANAGEMENT & SERVICES (FMS),

**ADMINISTRATION & FINANCE** 

ISSUED BY:

**UOG CONSOLIDATED PROCUREMENT OFFICE** 

TELEPHONE NO.: (671) 735-2925 FAX

FAX NO.: (671) 735-3010

E-MAIL: uog.bids@triton.uog.edu

#### **INSTRUCTIONS TO BIDDERS**

1. RECEIPT AND OPENING OF BIDS: Sealed bids for UOG **B21-17** PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM (UOG) must be received by the Procurement Office nolater than:

TIME: 2:00 P.M. DATE: \_\_\_\_\_, 2021

Bids submitted after the time and date specified above shall be rejected. Bid opening will be conducted electronically via Zoom Link at 4:00 pm; link will be provided through email to all registered offerors.

Attention is called to the fact that bidders not only offer to assume the obligations and liabilities imposed upon the contractor in the form of a contract, but are expressly made certain of the representations and warrants made herein. No effort is made to emphasize any particular provision of the contract, but biddersmust familiarize themselves with every provision and its effect. This Bid is subject to General Terms and Conditions of the Invitation for Sealed Bids (Attachment A) and the Special General Provisions (Attachment B).

In consideration of the expense of the University of Guam of opening, tabulating, and evaluating this and other bids, and other considerations, the undersigned agrees that this bid shall remain firm and irrevocablewithin sixty (60) calendar days from the date of opening to supply any or all of items for which prices are quoted.

- 2. BIDDER QUALIFICATIONS (Attachment C): The University of Guam may require bidders to presentsatisfactory evidence that they have sufficient experience and that they are fully prepared, thus it is required that the bidder completely fill out the Bidder's Qualifications Form.
- 3. NON-COLLUSION AFFIDAVIT (Attachment D): Each person submitting a bid for any portion of the work covered by the bidding documents shall execute an affidavit, in the form provided with the Bid to theeffect that he has not colluded with any other person, firm or corporation in regard to any bid submitted. Such affidavit shall be attached to the proposal.





- 4. MAJOR SHAREHOLDERS AFFIDAVIT (Attachment E): As a condition to submitting of bids or proposals, any partnership, sole proprietorship or corporation doing business with the University of Guam shall submit an affidavit that lists the name and address of any person who has held more than ten percent (10) of outstanding shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a proposal. The affidavit shall contain thenumber of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have been held by each person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for the procuring or assisting in obtaining business related to the bid or proposal for the Offeror and shall contain the amounts of any shall commission, gratuity or other compensation. The affidavit shall be open and available for inspection and copying.
- AFFIDAVIT RE GRATUITIES, KICKBACKS AND FAVORS (Attachment G): The bidder, offeror or contractor represents that it will not violate the prohibition against gratuities and kickbacks and favors set forth (Gratuities and Kickbacks) in 5 GCA, Chapter 5, Article 11, Ethics in Public Contracting and Section 11.7 (Gratuities and Kickbacks and Favors) of the UOG Procurement Manual.
- 6. AFFIDAVIT RE ETHICAL STANDARDS (Attachment H): The bidder, offeror, or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a government employee to breach any of the ethical standards set forth in 5 GCA, Chapter 5, Article 11, and in Chapter 11 (Ethics in Public Contracting) of the UOG Procurement Manual.
- 7. COVENANT AGAINST CONTINGENT FEES (Attachment I): The prospective contractor represents aspart of such contractor's bid or proposal that such contractor has/has not (Circle applicable word or words) retained any person or agency on a percentage, commission, or other contingent arrangement, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.
- B. DECLARATION RE COMPLIANCE WITH U.S. DEPARTMENT OF LABOR WAGE DETERMINATION (Attachment J): In accordance with 5 GCA §§ 5801 and 5802, as may be applicable, each bidder certifies that any of its employees whose purpose, in whole or in part, is the direct delivery of service contracted by the University shall be paid in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the University, including health and other similar benefits. Theupdated wage rate with the most current revision shall be included in the bid submission.
- 9. RIGHT TO ACCEPT AND REJECT BIDS: The President of the University of Guam reserves the unqualified right, in his sole and absolute discretion, to reject any and all bids, or to accept that bid or combination of bids, if any, which in his sole and absolute judgment will under all circumstances best servethe interests of the University of Guam. In the event that the successful bidder fails to execute the contract upon his part or to furnish a satisfactory performance and payment bond, the University, after declaring thesecurity deposit of such bidder forfeited, reserves the option to accept the bid of any other bidder within ten (10) days from such default, in which case such acceptance shall have the same effect as to such bidderas though he was the originally successful bidder.
- 10. MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS: The University reserves the right to revise or amend the specifications prior to the date set for opening bids. Such revisions and amendments, if any, will be announced by an amendment or amendments to this Invitation for Bids and shall be identified as such. It is required that the bidders acknowledge in writing receipt of all amendments issued and such acknowledgment must be included in the bid. The



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amendment shall refer to the portions of the Invitation forBids it amends. Amendments shall be sent to all prospective Bidders known to have received an Invitation for Bids. Amendments shall be distributed within a reasonable time to allow prospective Bidders to considerthe amendment in preparing their Bids. If the time and date set for receipt of bids will not permit such preparation, such time shall be increased to the extent possible in the amendment or, if necessary, by email or telephone and confirmed in the amendment.

- 11. CANCELLATION OF SOLICITATION: Prior to the date set for opening bids, a solicitation may be cancelled in whole or in part when the President or his designee determines in writing that the cancellation of the solicitation is in the University's best interest, in accordance with the University's Procurement Rulesand Regulations.
- 12. METHOD OF AWARD: Bid shall be awarded to the [x] lowest, [ ] highest, responsible and responsive bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids. A responsible bidder is one who has the capability in all respects to perform fully the contract requirements, and the integrity and reliability which will assure good faith performance. A responsive bidder is one who has submitted a bid which conforms in all material respects to the Invitation for Bids. The University reserves the right to waive any minor information of irregularity in Bids received. The President shall have the authority to award or reject Bids, in whole or in part for any one or more items if he determines it is in the public interest.

Award issued to the [x] lowest, [] highest, responsible and responsive bidder within the specified time foracceptance as indicated in the Bid, results in a binding contract without further action by either party provided the successful bidder executes a formal contract with the University. In case of any error in the extension of prices, unit price will govern. It is the policy of the Government of Guam to award Bids to qualified local vendors.

### 13. SUBMISSION OF BIDS:

- **a.** Bids and modifications thereof shall be submitted through electronic submission to the Share folder that UOG procurement office provides and addressed to the office specified in the Solicitation. The electronic file submission will show the hour and date of submission as specified in the Solicitation for receipt. The file should identify the Solicitation number, and the name of the bidder.
- b. Bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 9 of these instructions).
- **c.** Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the University, at no expense to the University. If not destroyed by testing, sampleswill be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
- d. Samples or descriptive literature should not be submitted unless it is required on this Solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any ofthe provisions of this Solicitation.





- 14. FAILURE TO SUBMIT BID: If no bid is to be submitted, do not return the Solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation is desired.
- 15. PRE-BID CONFERENCES. Pre-Bid conferences will be permitted any time prior to the date established herein for submission of bid. The conferences will be conducted only to explain the procurement requirements for this Request for Proposal. The Authority will notify all Bidders of any substantive clarification provided in response to any inquiry. The Authority will extend the due date if such information significantly amends the solicitation or makes compliance with the original proposed due date impractical.
- 16. BID PACKET. The prospective bidder is required to read each and every page of the Bid Packet and bythe act of submitting a proposal shall be deemed to have accepted all conditions contained therein. In no case will failure to inspect constitute grounds for claim or for the withdrawal of a bid after opening. Bid submission shall be sent electronically. Erasures or other changes in a bid must be explained or noted over the signature of the offeror. Bid submission containing any conditions, omissions, unexplained erasure or alterations or items not called for in the Bid packet, or irregularities of any kind may be rejected by the University as being incomplete.
- 17. BID PACKET FORM. A non-refundable fee of \$25.00 (U.S.) shall be charged for each hard copy or CD ROM bid packet. All payments shall be made by cash, certified check or money order to the University of Guam. Cashier services are located at the UOG Administration Building Mon-Fri from 8am-4pm by appointment only. Payby phone is also available from 8am-4pm at 735-2923/45/46.
- 18. NOTICE OF AWARD. UOG will notify all bidders the status of the Bid and Notice of Award. Written notice of award will be public information and made a part of the contract file.
- 19. LOCAL PROCUREMENT PREFERENCE: "All procurement of supplies and services shall be made from among businesses licensed to do business on Guam in accordance with Guam Code Annotated Title 5 Chapter 5 Section 5008 and Section 3.9.14.5, UOG Procurement Regulation."
- 20. BIODEGRADABLE, REUSEABLE, RECYCLABLE MATERIALS: Section 1.5, UOG Procurement Regulations. UOG's President or his designee, whenever possible, shall procure products that are biodegradable, recyclable, or made of recycled material, or any of these in any combination. The cost (prior to any adjustments for local vendors) of appropriate biodegradable, reusable, recyclable, or recycled products may be as much as ten percent (10%) greater than the cost of the non-biodegradable, non-recyclable, or non-recycled products they are replacing.
- 21. SERVICE-DISABLED VETERAN PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by a service-disabled veteran(s) who served in the active U.S. military: (1) Who was discharged or released under honorable conditions and whose disability is service-connected as demonstrated by a DD Form 214, and certified by an award letter from the U.S. Department of Veterans Affairs; (2) That submitted the DD Form 214 and Disability award letter from the U.S. Department of Veterans Affairs with their bid submitted in response to this solicitation; (3) The service-disabled veteran(s) owner of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (4) The business concern is licensed to do business on Guam; (5) The business concern maintains its headquarters on Guam; (6) the supply or service offered by the business concern is available within the period required by UOG; and (7) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Service-Disabled Veteran Preference is given in addition to any other procurement benefit the service-disabled veteran owned business may qualify for under Guam law.





- 22. WOMEN OWNED BUSINESS PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by women, who manage day-to-day operations and make long-term decisions, and: (1) The owner(s) of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (2) The business concern is licensed to do business on Guam; (3) The business concern maintains its headquarters on Guam; (4) the supply or service offered by the business concern is available within the period required by UOG; (5) The business concern is certified as a Women-Owned Small business (WOSB) or an Economically Disadvantaged Women-Owned Small Business (EDWOSB) by the U.S. Small Business Administration; and (6) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Women Owned Business Preference is given in addition to any other procurement benefit the women owned business may qualify for under Guam law.
- 23. DETERMINING LOWEST PRICE IF BIDDERS CLAIM PREFERENCES. In accordance with 5 G.C.A. §5013(a), UOG shall determine the lowest price in the case of more than one (1) women-owned business, or a women-owned business and a service-disabled veteran owned business, who are competing for the same government contract.
- 24. MULTIPLE OR ALTERNATIVE BIDS. UOG shall not accept any multiple or alternative bid and shall reject any multiple or alternate bids its received. However, if a bidder clearly indicates a base bid, such base bid shall be considered for award as though it were the only bid submitted by the bidder. If UOG is not able to distinguish which bid is the base bid, it will reject all the multiple or alternative bids submitted by the bidder.
- 25. MULTI-TERM CONTRACT. If a multi-term contract is awarded for this solicitation, the amount of supplies or services stated on the bid price form of this solicitation shall be the amount of supplies or services required for the proposed contract period and the unit prices given by the bidder awarded the contract shall be the same throughout the multi-term contract period, except to the extent that price adjustments may be provided in this solicitation and the resulting contract, and UOG may cancel, after giving timely notice to the contractor, the multi-term contract if funds are not appropriated or otherwise made available to support continuation of performance in any fiscal period succeeding the first. However, this will not effect either UOG's rights or the contractor's rights under any termination clause in the contract. If the contract is canceled, the contractor will be reimbursed the unamortized, reasonably incurred, nonrecurring costs.





#### **ATTACHMENT A**

### GENERAL TERMS AND CONDITIONS FOR THE INVITATION FOR BIDS

- 1. COMPLIANCE WITH SPECIFICATIONS: Bidder should comply with specifications outlined.
- 2. LATE BIDS, LATE WITHDRAWALS, AND LATE MODIFICATIONS:

Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of abid received after the time and date set for opening of bids at the place designated for opening is late. (Section 3.9.11.1, University of Guam Procurement Manual).

- 3. DETERMINATION OF LOWEST RESPONSIBLE BIDDERS: In determining lowest responsible bidder, the University shall be guided by the following:
  - (a) Price of bid items.
  - (b) The ability, capacity, and skill of the bidder to perform.
  - (c) Whether the bidder can perform promptly or within the specified time.
  - (d) The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
  - (e) The quality of performance of the bidder with regards to awards previously made to him.
  - (f) The previous and existing compliance by the bidder with laws and regulations relative toprocurement.
  - (g) The sufficiency of the financial resources and ability of the bidder to perform.
  - (h) The quality, availability, and adaptability of the supplies for the use of the subject of the award.
  - (i) The ability of the bidder to provide future maintenance and services for the use of the subject of theaward.
  - (j) The number and scope of the conditions attached to the bid.
- 4. LOW TIE BIDS: Low tie bids are low responsive bids from responsible bidders that are identical in price and which meet all the requirements and criteria set forth in the Invitation for Bids. Award shall not bemade by drawing lots, except as set forth UOG Procurement Regulations Section 3.9.15, or by dividing business among identical bidders.
- 5. TAXES: Bidders are cautioned that they are subject to Guam Business Privilege Taxes, including 4% Gross Receipt Tax and Guam Income Taxes on Guam Transactions. Specific information of taxes may be obtained from the Director of Revenue and Taxation.
- 6. LICENSING: Bidders are cautioned that the University will not consider for award any Bid Offer submitted by a bidder who has not complied with Guam Licensing Law. Specific information on licensesmay be obtained from the Director of Revenue and Taxation.
- 7. EQUAL EMPLOYMENT OPPORTUNITY: Section 3.01(1) of the President Executive Order No. 10935dated March 7, 1965, requires the bidder not to discriminate against any employee or applicant for employment because of race, creed, color or national origin. The bidder will take affirmative action to



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ensure that applicants are employed and the employees are treated equally during employment without regard to their race, creed, color or national origin.

- 8. DETERMINATION OF RESPONSIBILITY OF BIDDER: The University reserves the right for securing from bidders information necessary to determine whether or not they are responsible and to determine the responsibility in accordance with Section 3 of the General Terms and Conditions.
- 9. JUSTIFICATION OF DELAY: Vendors who are awarded items under the Bid guarantee that the goodswill be delivered to their destination within the time specified. If the vendor is not able to meet the specified delivery date, he is required to notify the purchasing agent of such delay. Notification shall be in writing and should be received by the agent at least twenty-four (24) hours before the specified delivery date. Notification of delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The University of Guam reserves the right to reject delay justification if in the opinion of the President such justification is not adequate.
- 10. EQUAL OPPORTUNITY EMPLOYER AND PROVIDER: It is the policy of the University of Guam to provide equal opportunity in its higher educational mission and as employer. The University complies with all federal and local statutes, rules and regulations which prohibit discrimination in its policies and practicesand direct affirmative action, including but not limited to Titles VII and IX of the Civil Rights Act of 1964 (asamended), Executive Order 11246, and the Equal Pay act of 1963 (as amended). The University shall promote a full realization of equal opportunity through a positive, continuing program, including a requirement that those doing business with the University also are equal opportunity employers.
- EMPLOYMENT RESTRICTION: If a contract for services is awarded to the bidder or offeror, then 11. the service provider must warrant that no person in its employment who has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 of the Guam Code Annotated or of an offense defined in Article 2 of Chapter 28 of Title 9 of the Guam Code Annotated, or who has been convicted in any other jurisdiction of an offense with the same elements as heretofore define, or who is listed on the Sex Offender Registry, shall provide services on behalf of the service provider while on University of Guam property, with the exception of public highways. If any employee of a service provider is providing services on University property and is convicted subsequent to an award of a contract, then the service provider warrants that it will notify the University of the Conviction, within twenty-four hours of the conviction, and will immediately remove such convicted person from providing services on University property. If the service provider is found to be in violation of any of the provisions of this paragraph, then the University will give notice to the service provider to take corrective action. The service provider shall take corrective action within twenty-four hours of notice from the University, and the service provider shall notify the University when action has been taken. If the service provider fails to take corrective steps within twenty-four hours ofnotice from the University, then the University in its sole discretion may suspend temporarily any contract for services until corrective action has been taken.
- 12. (X) (Required if checked) BID SECURITY REQUIREMENT (Attachment D): Bidder is required to submit a Bid Security or standby irrevocable Letter of Credit or Certified Check or Cashier's Check or othersecurity supplied in a form satisfactory to the University in the same bid envelope to be held by the University of Guam (UOG). A bidder should contact the University for Pre-approval of the bid security requirement before the deadline for submission of bid packages if it is proposing security in a form not specifically listed above. The bid security required under any applicable invitation for Bid shall not be released upon award of the bid, but instead shall continue in full force and effect until delivery of the supplies or services required by any contract awarded to contractor under the associated Invitation for Bid



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is completed. The Bid Security, Letter of Credit, Certified Check or Cashier's Check must be issued by anylocal surety or banking institution licensed to do business on Guam and made payable to the University of Guam in the amount of fifteen percent (15%) of the total amount bid. The Original Bid Security must be submitted to the UOG Procurement office on or before bid submission deadline. Personal Checks will not be accepted as Bid Security.

If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribedtime, such Bid guarantee will be forfeited to the University of Guam. Bids will be disqualified if not accompanied by Bid Security, Letter of Credit, Certified Check or Cashier's Check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services, exceeding \$25,000.00, a 15% Bid Security of the total bid price must accompany the bid package.) When the Invitation for Bids requires bid security, non-compliance requires that the bid be rejected unless, pursuant to Policy Office regulations, it isdetermined that the bid fails to comply in a non-substantial manner with the security requirements.

- 13. INDEPENDENT CONTRACTOR: Contractor shall operate its business as an independent contractorand shall discharge all of its duties as such. No act performed or representation made, whether oral or written by Contractor with respect to third parties shall be binding on UOG.
- 14. INDEMNITY: Contractor agrees to indemnify and hold harmless UOG and its officers and employeesfrom any claim, damage, liability, injury, expense or loss, including defense costs and attorney's fees, arising out of Contractor's duties under this agreement resulting from Contractor's negligence, save and except those caused by the negligence on the part of UOG.



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#### **ATTACHMENT B**

#### SPECIAL GENERAL

#### **PROVISIONS**

- 1. GENERAL INTENTION: It is the declared and acknowledged intention and meaning of this Special General Provision for the Bidder to provide the University of Guam with materials, supplies, or equipmentcompletely assembled, and ready for use.
- 2. COMPETENCY OF BIDDERS: Bids will be considered only from such bidders who, in the opinion ofthe University, can show evidence of their ability, experience, and facilities to render satisfactory service.

unsinvitation, please des	ignate a persor	n wnom we may contact for prompt administration.
NAME:		TITLE:
NAME OF COMPANY:_		ADDRESS:
TEL:	FAX:	E-Mail Address

3. CONTACT FOR CONTRACT ADMINISTRATION: If your firm receives a contract as a result of

- 4. INSPECTION: All supplies, materials, or equipment delivered under this contract shall be subject to the inspection and test conducted by the University at destination. If, in any case, the supplies, materials, or equipment are found to be defective in material, workmanship, performance or otherwise does not conform to the specifications, the University shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the University of Guam.
- 6. BID ELECTRONIC FILE: Bid file shall be marked with the bidder's name, bid invitation number, andbid title.

NOTE: UNDER NO CIRCUMSTANCES WILL LATE BIDS BE ACCEPTED BY THIS OFFICE.

- 7. RECEIPT, OPENING AND RECORDING OF BIDS: Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bid. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 8, below. Materials so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary.
- 8. CONFIDENTIAL DATA: The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of UOG Procurement Regulations, the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data.

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9. INQUIRIES: All inquiries or questions and concerns must be submitted to the President of theUniversity of Guam in writing through the procurement office at <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a>. Oral communications will not be considered.

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#### **ATTACHMENT C**

#### **BIDDER'S QUALIFICATIONS**

To be submitted in accordance with the provisions set forth in the INSTRUCTIONS TO BIDDERS contained in the bidding documents for the project.

The undersigned Bidder makes the following representations relating to its proposal to the UNIVERSITY OF GUAM.

The word "it", used herein by way of reference to the undersigned, shall be deemed to mean "he or she" ifthe Bidder is an individual and "they" if the Bidder is a partnership

1.	It maintains a permanent place of business at
2 61	
apros	FANDARD FOR DETERMINATION OF QUALIFIED BIDDER: In order to qualify as responsible, pective bidder must meet the following standards as they relate to the particular procurement consideration:
(a	Has adequate financial resources for performance, or has the ability to abtain each account

- (a) Has adequate financial resources for performance, or has the ability to obtain such resources asrequired during performance.
- (b) Has the necessary experience, organization, technical qualifications, skills, and facilities, or has theability to obtain them.
- (c) Is able to comply with the proposed or required performance schedule.
- (d) Has a satisfactory record of integrity, judgment, and performance.
- (e) Must be able to conform to the requirements of the Equal Employment Opportunity Act.
- 3. It hereby represents and warrants that all statements set forth herein are true and correct. (If the Bidderis a partnership, the partnership name must be signed, followed by the signature of at least one of the partners. If the Bidder is a corporation, the corporate name must be signed, followed by the signature of a duly authorized officer and the corporate seal affixed. A typewritten copy of all such names and signatures shall be appended. No alterations, erasures, corrections or interlineations will be permitted).

NAME OF BIDDER

### ATTACHMENT D BID SECURITY

### BID BOND NO. B21-17

	V ALL MEN E			that			as Principal
hereinafter	called		"Principal",		(Bo	onding	Company)
Territory of Gu Guam for the	am, as Surety, sum of_ and truly to b	hereinafter	called the "Su	etv" are held	firmly bo	und unto th	e laws of the e University of for payment o
executors, adn	ninistrators, suc	e made, the cessors and	said Principa assigns, jointly	ol and the said y and severally	Surety of the su	bind oursel y these pre	ves, our heirs sents.
Whereas, the	Principal has s	ubmitted a	bid for (ident	ify project by	number	and brief	description)
orbonds as ma performance of thereof. In the the Principal shape the amounts so faith contract was as specified in full force and e	FORE, if the United with the University be specified in function of the familiary to the University and the Invitation for the Invitation Invi	rsity of Guar n bidding or C and for the p ilure of the F Jniversity of bid and suc rty to perforn or Bid, then t	n in accordance ontract Docum rompt paymen rincipal to enter Guam the differ harger amount work covered his obligation s	e with the term nents with good t of labor and n er such Contra erence not to e nt for which th d by said bid o shall be null an	ns of suc I and suff naterial fu ict and gi exceed th e Univers r an appi d void, b	h bid, and gicient surety irnished in to ve such booke penalty his ity of Guar ropriate liquit otherwise	give such bond y for the faithfu he prosecution nd or bonds, it ereof between m may in good
				(PRINCIPAL	L)	(SEAL)	
(WITN	NESS)						
(ТІТ	LE)		(MAJOF	R OFFICER OF	SURET	Y)	
(MAJOR OFFI	CER OF SURE	TY)	<del></del>	(TITLE	≣)		
(TITI	LE)		(RESID	ENT GENERA	AGENT	<u></u>	

### ATTACHMENT E MAJOR SHAREHOLDER DISCLOSURE AFFIDAVIT

CITY	DF	)		
ISLAN	D OF GUAM	) ss. )		
A.	I, the undersign the offerorand t	ned, being first duly sworn depos that (please check only one):	ose and say that I am an authorized represe	entative of
( )	The offeror is a	n individual or sole proprietor a	and owns the entire (100%) interest in the o	ffering
bu			chip, joint venture, or association known as (please state name of offeror	
of the s	andrea or inferest	the persons, companies, partic in the offering business during e as follows (if none, please so s	ners, or joint ventures who have held more to the 365 days immediately preceding the su state):	han 10% bmission
	NAME	<u>ADDRESS</u>	% of <u>Interest</u>	
В.	or other compet	nat the persons who have receivensation for procuring or assisting vitis submitted are as follows (if	ived or are entitled to receive a commission ng in obtaining business related to the bid or f none, please so state):	ı, gratuity proposal
	NAME	<u>ADDRESS</u>	Compe	nsation
C.	ric time an awa	ard is made or a contract is en	d change between the time this affidavit is natered into, then I promise personally to upring another affidavit to the government.	nade and odate the
			Signature of one of the following: Offeror, if the offeror is an individual; Partner, if the offeror is a partnership;Officer, if the offeror is a corporation	
Subscr	ibed and sworn to	o before		
me Thi	sday of	, 20		
My con	RY PUBLIC nmission expires			
(AG Pr	ocurement Form	002 (Rev. Nov 17, 2005)		

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### ATTACHMENT F **AFFIDAVIT re NON-**COLLUSION CITY OF ) ss. **ISLAND OF GUAM** ١ \_\_ (state name of affiant singing below), being first dulysworn deposes and says that: 1. The name of the offering company or individual is (state name of company) 2. The proposal for the solicitation identified above is genuine and not collusive or a sham. The offeror has not colluded, conspired, connived or agreed, directly or indirectly, with any other offeror or person, to put in a sham proposal or to refrain from making an offer. The offeror has not in any manner, directly or indirectly, sought by an agreement or collusion, or communication or conference, with any person to fix the proposal price of offeror or of any other offeror, or to fix any overhead, profit or cost element of said proposal price, or of that of any other offeror, or to secure any advantage against the government of Guam or any person interested in the proposed contract. All statements in this affidavit and in the proposal are true to the best of the knowledge of the undersigned. This statement is made pursuant to 2 GAR Division 4 § 3126(b). 3. I make this statement on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees. Signature of one of the following: Offeror, if the offeror is an individual; Partner, if the offeror is a partnership; Officer, if the offeror is a corporation Subscribed and sworn to before me This\_\_\_\_\_day of\_\_\_\_\_, 20\_ NOTARY PUBLIC My commission expires (AG Procurement Form 003 (Jul. 12, 2010)

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### ATTACHMENT G <u>AFFIDAVIT re GRATUITIES, KICKBACKS AND FAVORS</u>

CITY OF_		
ISLAND O	) ss. F GUAM )	
sworn,dep	oses and says that:	(state name of affiant signing below), being first duly
3.	of the following: the offeror, a foregoing identified bid or proportion of the best of affiant's known representatives, agents subconfagainst gratuities, kickbacks are Further, affiant promises, on be kickbacks and favors as set for To the best of affiant's known representatives, agents, subcount and government of Guam em kickback, gratuity or offer of em I make this statement on behalf	arm or individual is (state name of offeror company)  = Affiant is
		Signature of one of the following:  Offeror, if the offeror is an individual;  Partner, if the offeror is a  partnership;Officer, if the offeror is a  corporation
Subscribed	and sworn to before me	
This	day of, 20_	
NOTARY P My commis (AG Procur	Sion expires	

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### ATTACHMENT H AFFIDAVIT RE ETHICAL STANDARDS

CITY OF)	
) ss. ) ss. )	
donocce and court hat	(state name of affiant signing below), being first duly sworn,
deposes and says that:	
have knowingly influenced any government of forth in 5 GCA Chapter 5, Article 11. Furth reprehensive, agent, subcontractor, or employed	(state one of the following: the offeror, a partner of the foregoing identified bid or proposal. To the best of affiant's presentatives, agents, subcontractors or employees of offeror of Guam employee to breach any of the ethical standards set er, affiant promises that neither he or she, nor any officer, we of offeror will knowingly influence any government of Guam et forth in 5 GCA Chapter 5, Article 11. These statements are Section 11.3.3.
	Signature of one of the following:  Offeror, if the offeror is an individual; Partner, if the offeror a partnership; Officer, if the offeror is a corporation.
Subscribed and sworn to before me	
Thisday of, 20	)_
NOTARY PUBLIC	_
My commission expires	<del></del> -
(AG Procurement Form 005 (Jul. 12, 2010)	

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### ATTACHMENT I <u>DECLARATION re COMPLIANCE WITH U.S. DOL WAGE DETERMINATIONS</u>

Procurement No.: <u>UOG BID B21-17</u>

That I am(please select one: the offeror, a partner of the offeror, an officer of the offeror) making the bid or proposal in the foregoing identified procurement;
That I have read and understand the provisions of 5 GCA § 5801and 5802 which read:
§ 5801. Wage Determination Established.
In such cases where the government of Guam enters into contractual arrangements with a solo proprietorship, a partnership or a corporation ("contractor") for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.
The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, whicl shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause then at the time of renewal adjustments, there shall be made stipulations contained in the contract for applying the Wage Determination, as required by this Article, so the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply
§ 5802. Benefits.
In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimun of ten (10) paid holidays per annum per employees.
That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the the procurement referenced herein;
That I have attached the most recent wage determination applicable to Guam issued by the U.S.Department of Labor. (INSTRUCTIONS – Please attach most updated version to bid package)
Procurement Form 006 (Feb. 16, 2010)

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"REGISTER OF WAGE DETERMINATIONS UNDER | U.S. DEPARTMENT OF LABOR

THE SERVICE CONTRACT ACT By direction of the Secretary of Labor **EMPLOYMENT STANDARDS ADMINISTRATION** WAGE AND HOUR DIVISION WASHINGTON D.C. 20210

Wage Determination No.: 2015-5693 Daniel W. Simms Division of Revision No.: 13

Director Wage Determinations | Date Of Last Revision: 08/04/2021

Note: Under Executive Order (EO) 13658 an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2015. If this contract is covered by the EO the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination if it is higher) for all hours spent performing on the contract in calendar year 2021. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

States: Guam Northern Marianas Wake Island

01262 - Personnel Assistant (Employment) II

01263 - Personnel Assistant (Employment) III

01270 - Production Control Clerk

01290 - Rental Clerk

Area: Guam Statewide

Northern Marianas Statewide

Wake Island Statewide

OCCUPATION CODE - TITLE **FOOTNOTE** RATE 01000 - Administrative Support And Clerical Occupations 01011 - Accounting Clerk I 13.57 01012 - Accounting Clerk II 15.23 01013 - Accounting Clerk III 17.04 01020 - Administrative Assistant 21.43 01035 - Court Reporter 17.40 01041 - Customer Service Representative I 11.51 01042 - Customer Service Representative II 12.94 01043 - Customer Service Representative III 14.12 01051 - Data Entry Operator I 12.15 01052 - Data Entry Operator II 13.25 01060 - Dispatcher Motor Vehicle 17.39 01070 - Document Preparation Clerk 13.85 01090 - Duplicating Machine Operator 13.85 01111 - General Clerk I 10.35 01112 - General Clerk II 11.29 01113 - General Clerk III 12.68 01120 - Housing Referral Assistant 19.39 01141 - Messenger Courier 11.37 01191 - Order Clerk I 12.57 01192 - Order Clerk II 13.71 01261 - Personnel Assistant (Employment) I

\*\*Fringe Benefits Required Follow the Occupational Listing\*\*

15.95

17.85

19.89

21.78

11.10

01300 - C-11-3	
01300 - Scheduler Maintenance	15.55
01311 - Secretary I	15.55
01312 - Secretary II	17.40
01313 - Secretary III	19.39
01320 - Service Order Dispatcher	15.40
01410 - Supply Technician	21.43
01420 - Survey Worker	
01460 - Switchboard Operator/Receptionist	16.96
01531 - Travel Clerk I	10.36
01532 - Travel Clerk II	13.01
01533 - Travel Clerk III	14.12
01533 - Havel Clerk III	15.09
01611 - Word Processor I	14.53
01612 - Word Processor II	16.31
01613 - Word Processor III	18.26
05000 - Automotive Service Occupations	-5120
05005 - Automobile Body Repairer Fiberglass	15.46
05010 - Automotive Electrician	
05040 - Automotive Glass Installer	14.52
05070 - Automotive Worker	13.58
05110 - Mobile Equipment Servicer	13.58
05130 - Motor Equipment Metal Mechanic	11.65
05150 - Motor Equipment Metal Mechanic	15.46
05160 - Motor Equipment Metal Worker	13.58
05190 - Motor Vehicle Mechanic	15.46
05220 - Motor Vehicle Mechanic Helper	10.66
05250 - Motor Vehicle Upholstery Worker	12.64
05280 - Motor Vehicle Wrecker	13.58
05310 - Painter Automotive	14.52
05340 - Radiator Repair Specialist	
05370 - Tire Repairer	13.58
05400 - Transmission Repair Specialist	12.67
07000 - Food Preparation And Service Occupations	15.46
07010 - Baker	
	10.47
07041 - Cook I	13.26
07042 - Cook II	15.46
07070 - Dishwasher	9.31
07130 - Food Service Worker	9.45
07210 - Meat Cutter	
07260 - Waiter/Waitress	12.13
09000 - Furniture Maintenance And Repair Occupations	9.27
09010 - Electrostatic Spray Painter	
09040 - Furniture Handler	18.04
09080 - Furniture Refinisher	10.95
20000 - Furniture Refinisher	18.04
09090 - Furniture Refinisher Helper	13.27
09110 - Furniture Repairer Minor	15.70
09130 - Upholsterer	18.04
11000 - General Services And Support Occupations	25104
11030 - Cleaner Vehicles	9.35
11060 - Elevator Operator	
11090 - Gardener	9.54
11122 - Housekeeping Aide	13.00
11150 - Janitor	9.54
	9.54
11210 - Laborer Grounds Maintenance	9.82
11240 - Maid or Houseman	9.32
11260 - Pruner	8.79
11270 - Tractor Operator	11.90
11330 - Trail Maintenance Worker	9.82
11360 - Window Cleaner	10.66
12000 - Health Occupations	10.66
12010 - Ambulance Driver	
12011 - Breath Alcohol Technician	18.23
12012 - Contified Occumational Thomas	18.23
12012 - Certified Occupational Therapist Assistant	25.01
12015 - Certified Physical Therapist Assistant	25.01
12020 - Dental Assistant	16.32
12025 - Dental Hygienist	36.12
12030 - EKG Technician	25.99
	23.33

12035 - Electroneurodiagnostic Technologist		25.99
12040 - Emergency Medical Technician		18.23
12071 - Licensed Practical Nurse I		16.30
12072 - Licensed Practical Nurse II		18.23
12073 - Licensed Practical Nurse III		20.32
12100 - Medical Assistant		12.26
12130 - Medical Laboratory Technician		18.82
12160 - Medical Record Clerk		13.61
12190 - Medical Record Technician		17.77
12195 - Medical Transcriptionist		16.30
12210 - Nuclear Medicine Technologist		40.06
12221 - Nursing Assistant I		11.34
12222 - Nursing Assistant II		12.75
12223 - Nursing Assistant III		13.91
12224 - Nursing Assistant IV		15.61
12235 - Optical Dispenser		18.23
12236 - Optical Technician		16.30
12250 - Pharmacy Technician		15.49
12280 - Phlebotomist		16.30
12305 - Radiologic Technologist		25.33
12311 - Registered Nurse I		23.18
12312 - Registered Nurse II		28.36
12313 - Registered Nurse II Specialist		28.36
12314 - Registered Nurse III		34.32
12315 - Registered Nurse III Anesthetist		34.32
12316 - Registered Nurse IV		41.13
12317 - Scheduler (Drug and Alcohol Testing)		
12320 - Substance Abuse Treatment Counselor		22.58
13000 - Information And Arts Occupations		22.58
13011 - Exhibits Specialist I		24 20
13012 - Exhibits Specialist II		21.20
13013 - Exhibits Specialist III		26.27
13041 - Illustrator I		32.13
13042 - Illustrator II		21.20
13043 - Illustrator III		26.27
13047 - Librarian		32.13
13050 - Library Aide/Clerk		29.09
13054 - Library Information Technology Systems		16.88
Administrator		26.27
13058 - Library Technician		
13061 - Media Specialist I		16.64
13062 - Media Specialist II		18.96
13063 - Media Specialist III		21.20
13071 - Photographer I		23.63
13072 - Photographer II		18.96
		21.20
13073 - Photographer III		26.27
13074 - Photographer IV		32.13
13075 - Photographer V		38.88
13090 - Technical Order Library Clerk		21.20
13110 - Video Teleconference Technician		18.96
14000 - Information Technology Occupations		
14041 - Computer Operator I		15.71
14042 - Computer Operator II		17.22
14043 - Computer Operator III		19.19
14044 - Computer Operator IV		21.33
14045 - Computer Operator V		23.62
14071 - Computer Programmer I	(see 1)	15.73
14072 - Computer Programmer II	(see 1)	19.50
14073 - Computer Programmer III	(see 1)	23.84
14074 - Computer Programmer IV	(see 1)	-3.0.
14101 - Computer Systems Analyst I	(see 1)	24.23
14102 - Computer Systems Analyst II	(see 1)	- * • • •
14103 - Computer Systems Analyst III	(see 1)	
14150 - Peripheral Equipment Operator	\ <b></b> /	15.71
14160 - Personal Computer Support Technician		21.33
		44.33

44470	
14170 - System Support Specialist	21.24
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	24.23
15020 - Aircrew Training Devices Instructor (Rated)	29.32
15030 - Air Crew Training Devices Instructor (Pilot)	34.91
15050 - Computer Based Training Specialist / Instructor 15060 - Educational Technologist	24.23
15070 - Flight Instructor (Pilot)	27.61
15080 - Graphic Artist	34.91
15085 - Maintenance Test Pilot Fixed Jet/Prop	20.47
15086 - Maintenance Test Pilot Rotary Wing	34.91
15088 - Non-Maintenance Test/Co-Pilot	34.91
15090 - Technical Instructor	34.91
15095 - Technical Instructor/Course Developer	17.67
15110 - Test Proctor	23.78 15.70
15120 - Tutor	15.70
16000 - Laundry Dry-Cleaning Pressing And Related Occupations	13.70
16010 - Assembler	10.12
16030 - Counter Attendant	10.12
16040 - Dry Cleaner	11.56
16070 - Finisher Flatwork Machine	10.12
16090 - Presser Hand	10.12
16110 - Presser Machine Drycleaning	10.12
16130 - Presser Machine Shirts	10.12
16160 - Presser Machine Wearing Apparel Laundry	10.12
16190 - Sewing Machine Operator	12.04
16220 - Tailor	12.52
16250 - Washer Machine	10.60
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	19.46
19040 - Tool And Die Maker	24.46
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	13.96
21030 - Material Coordinator	21.78
21040 - Material Expediter	21.78
21050 - Material Handling Laborer 21071 - Order Filler	11.37
	9.76
21080 - Production Line Worker (Food Processing) 21110 - Shipping Packer	13.96
21130 - Shipping Facker 21130 - Shipping/Receiving Clerk	17.12
21140 - Store Worker I	17.12
21150 - Stock Clerk	15.22
21210 - Tools And Parts Attendant	21.40
21410 - Warehouse Specialist	13.96
23000 - Mechanics And Maintenance And Repair Occupations	13.96
23010 - Aerospace Structural Welder	25 04
23019 - Aircraft Logs and Records Technician	25.04 19.47
23021 - Aircraft Mechanic I	23.84
23022 - Aircraft Mechanic II	25.04
23023 - Aircraft Mechanic III	26.30
23040 - Aircraft Mechanic Helper	16.58
23050 - Aircraft Painter	22.39
23060 - Aircraft Servicer	19.47
23070 - Aircraft Survival Flight Equipment Technician	22.39
23080 - Aircraft Worker	21.03
23091 - Aircrew Life Support Equipment (ALSE) Mechanic	21.03
I	
23092 - Aircrew Life Support Equipment (ALSE) Mechanic	23.84
II	
23110 - Appliance Mechanic	19.46
23120 - Bicycle Repairer	15.61
23125 - Cable Splicer	19.59
23130 - Carpenter Maintenance 23140 - Carpet Layer	16.07
23160 - Carpet Layer 23160 - Electrician Maintenance	18.20
TOTOG FIECU ICIAN MAINTENANCE	18.05

22101 - 51	
23181 - Electronics Technician Maintenance I	18.20
23182 - Electronics Technician Maintenance II	19.46
23183 - Electronics Technician Maintenance III	20.72
23260 - Fabric Worker	16.94
23290 - Fire Alarm System Mechanic	16.77
23310 - Fire Extinguisher Repairer	15.61
23311 - Fuel Distribution System Mechanic	20.72
23312 - Fuel Distribution System Operator	15.61
23370 - General Maintenance Worker	12.01
23380 - Ground Support Equipment Mechanic	23.84
23381 - Ground Support Equipment Servicer	19.47
23382 - Ground Support Equipment Worker	21.03
23391 - Gunsmith I	15.61
23392 - Gunsmith II	18.20
23393 - Gunsmith III	20.72
23410 - Heating Ventilation And Air-Conditioning	17.50
Mechanic	17.50
23411 - Heating Ventilation And Air Contidioning	18.61
Mechanic (Research Facility)	10.01
23430 - Heavy Equipment Mechanic	19.27
23440 - Heavy Equipment Operator	
23460 - Instrument Mechanic	17.76
23465 - Laboratory/Shelter Mechanic	20.72
23470 - Laborer	19.46
23510 - Locksmith	11.37
23530 - Machinery Maintenance Mechanic	19.46
23550 - Machinist Maintenance	23.13
23530 - Maintenance	20.72
23580 - Maintenance Trades Helper	10.67
23591 - Metrology Technician I	20.72
23592 - Metrology Technician II	22.03
23593 - Metrology Technician III	23.33
23640 - Millwright	20.72
23710 - Office Appliance Repairer	19.46
23760 - Painter Maintenance	14.08
23790 - Pipefitter Maintenance	18.39
23810 - Plumber Maintenance	17.27
23820 - Pneudraulic Systems Mechanic	20.72
23850 - Rigger	20.72
23870 - Scale Mechanic	18.20
23890 - Sheet-Metal Worker Maintenance	17.35
23910 - Small Engine Mechanic	
23931 - Telecommunications Mechanic I	18.20
23932 - Telecommunications Mechanic II	19.76
23950 - Telephone Lineman	21.01
23960 - Welder Combination Maintenance	18.24
23965 - Well Driller	18.31
23970 - Woodcraft Worker	21.13
23980 - Woodworker	20.71
24000 - Personal Needs Occupations	15.61
24550 - Case Manager	
24570 - Child Care Attendant	15.01
24580 - Child Care Center Clerk	10.09
24500 - Child Care Center Clerk 24610 - Chore Aide	13.25
	12.78
24620 - Family Readiness And Support Services	15.01
Coordinator	
24630 - Homemaker	16.12
25000 - Plant And System Operations Occupations	
25010 - Boiler Tender	20.72
25040 - Sewage Plant Operator	21.59
25070 - Stationary Engineer	20.72
25190 - Ventilation Equipment Tender	14.29
25210 - Water Treatment Plant Operator	21.59
27000 - Protective Service Occupations	
27004 - Alarm Monitor	10.90
27007 - Baggage Inspector	9.48
	2.40

27000	
27008 - Corrections Officer	12.05
27010 - Court Security Officer	12.05
27030 - Detection Dog Handler	10.90
27040 - Detention Officer	12.05
27070 - Firefighter	12.05
27101 - Guard I	9.48
27102 - Guard II	10.90
27131 - Police Officer I	12.05
27132 - Police Officer II	
28000 - Recreation Occupations	13.40
28041 - Carnival Equipment Operator	43.04
28042 - Carnival Equipment Repairer	13.24
28043 - Carnival Worker	14.46
	9.78
28210 - Gate Attendant/Gate Tender	13.18
28310 - Lifeguard	11.01
28350 - Park Attendant (Aide)	14.74
28510 - Recreation Aide/Health Facility Attendant	11.84
28515 - Recreation Specialist	18.26
28630 - Sports Official	11.74
28690 - Swimming Pool Operator	17.71
29000 - Stevedoring/Longshoremen Occupational Services	17.71
29010 - Blocker And Bracer	20.00
29020 - Hatch Tender	25.98
29030 - Line Handler	25.98
29041 - Stevedore I	25.98
29042 - Stevedore II	24.18
30000 - Technical Occupations	27.79
30010 - Air Traffic Control Specialist Center (HFO) (see 2)	40.29
30011 - Air Traffic Control Specialist Station (HFO) (see 2)	27.78
30012 - Air Traffic Control Specialist Terminal (HFO) (see 2)	30.59
30021 - Archeological Technician I	<b>1</b> 7.49
30022 - Archeological Technician II	19.56
30023 - Archeological Technician III	24.21
30030 - Cartographic Technician	23.18
30040 - Civil Engineering Technician	23.08
30051 - Cryogenic Technician I	25.57
30052 - Cryogenic Technician II	
30061 - Drafter/CAD Operator I	28.24
30062 - Drafter/CAD Operator II	17.49
30063 - Drafter/CAD Operator III	19.56
30064 - Drafter/CAD Operator IV	20.77
30004 - Draiter/CAD Operator IV	25.57
30081 - Engineering Technician I	14.84
30082 - Engineering Technician II	16.66
30083 - Engineering Technician III	18.64
30084 - Engineering Technician IV	23.08
30085 - Engineering Technician V	28.24
30086 - Engineering Technician VI	34.16
30090 - Environmental Technician	23.08
30095 - Evidence Control Specialist	23.08
30210 - Laboratory Technician	
30221 - Latent Fingerprint Technician I	20.77
30222 - Latent Fingerprint Technician II	25.57
30240 - Mathematical Technician	28.24
30361 - Paralegal/Legal Assistant I	23.34
30363 - Panalogal/Legal Assistant II	19.54
30362 - Paralegal/Legal Assistant II	24.21
30363 - Paralegal/Legal Assistant III	29.61
30364 - Paralegal/Legal Assistant IV	35.83
30375 - Petroleum Supply Specialist	28.24
30390 - Photo-Optics Technician	21.93
30395 - Radiation Control Technician	28.24
30461 - Technical Writer I	23.08
30462 - Technical Writer II	28.24
30463 - Technical Writer III	34.16
30491 - Unexploded Ordnance (UXO) Technician I	25.60
30492 - Unexploded Ordnance (UXO) Technician II	
	30.98

30403 - Unovaladed Ordanas (UVO) Tasketata and	
30493 - Unexploded Ordnance (UXO) Technician III	37.13
30494 - Unexploded (UXO) Safety Éscort 30495 - Unexploded (UXO) Sweep Personnel	25.60
30501 - Weather Forecaster I	25.60
30502 - Weather Forecaster II	25.57
20020 11-44-00	31.09
30620 - Weather Observer Combined Upper Air Or (see 2) Surface Programs	20.77
30621 - Noathon Observer Contra	
31000 - Transportation/Medile Southment Operation (See 2)	23.08
31000 - Transportation/Mobile Equipment Operation Occupations 31010 - Airplane Pilot	
31020 - Bus Aide	30.98
31030 - Bus Driver	8.15
31043 - Driver Courier	10.66
31260 - Parking and Lot Attendant	9.69
31290 - Shuttle Bus Driver	9.91
31310 - Taxi Driver	11.65
	11.41
31361 - Truckdriver Light 31362 - Truckdriver Medium	10.59
31363 - Truckdriver Medium 31363 - Truckdriver Heavy	11.61
	14.64
31364 - Truckdriver Tractor-Trailer	14.64
99000 - Miscellaneous Occupations	
99020 - Cabin Safety Specialist 99030 - Cashier	15.10
99050 - Cashler 99050 - Desk Clerk	9.63
	9.70
99095 - Embalmer	25.60
99130 - Flight Follower	25.60
99251 - Laboratory Animal Caretaker I	23.38
99252 - Laboratory Animal Caretaker II	25.54
99260 - Marketing Analyst	21.54
99310 - Mortician	25.60
99410 - Pest Controller	14.61
99510 - Photofinishing Worker	13.45
99710 - Recycling Laborer	17.32
99711 - Recycling Specialist	23.38
99730 - Refuse Collector	16.40
99810 - Sales Clerk	9.87
99820 - School Crossing Guard	17.27
99830 - Survey Party Chief	23.01
99831 - Surveying Aide	13.08
99832 - Surveying Technician	17.00
99840 - Vending Machine Attendant	23.38
99841 - Vending Machine Repairer	29.78
99842 - Vending Machine Repairer Helper	23.38

Note: Executive Order (EO) 13706 Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2017. If this contract is covered by the EO the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness injury or other health-related needs including preventive care; to assist a family member (or person who is like family to the employee) who is ill injured or has other health-related needs including preventive care; or for reasons resulting from or to assist a family member (or person who is like family to the employee) who is the victim of domestic violence sexual assault or stalking. Additional information on contractor requirements and worker protections

under the EO is available at www.dol.gov/whd/govcontracts.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.60 per hour up to 40 hours per week or \$184.00 per week or \$797.33 per month

HEALTH & WELFARE EO 13706: \$4.23 per hour up to 40 hours per week or \$169.20 per week or \$733.20 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706 Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; and 4 weeks after 3 years. Length of service includes the whole span of continuous service with the present contractor or successor wherever employed and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day Martin Luther King Jr.'s Birthday Washington's Birthday Memorial Day Independence Day Labor Day Columbus Day Veterans' Day Thanksgiving Day and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b) this wage determination does not apply to any employee who individually qualifies as a bona fide executive administrative or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals (29 C.F.R. 541. 400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage

determination.

Additionally because job titles vary widely and change quickly in the computer industry job titles are not determinative of the application of the computer professional exemption. Therefore the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures including consulting with users to determine hardware software or system functional specifications;
- (2) The design development documentation analysis creation testing or modification of computer systems or programs including prototypes based on and related to user or system design specifications;
- (3) The design documentation testing creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties the performance of which requires the same level of skills. (29 C.F.R. 541.400).
- 2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

### \*\* HAZARDOUS PAY DIFFERENTIAL \*\*

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance explosives and incendiary materials. This includes work such as screening blending dying mixing and pressing of sensitive ordnance explosives and pyrotechnic compositions such as lead azide black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization modification renovation demolition and maintenance operations on sensitive ordnance explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with or in close proximity to ordnance (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands face or arms of the employee engaged in the operation irritation of the skin minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving unloading storage and hauling of ordnance explosive and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance explosives and incendiary material differential pay.

#### \*\* UNIFORM ALLOWANCE \*\*

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract by the employer by the state or local law etc.) the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition where uniform cleaning and maintenance is made the responsibility of the employee all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount or the furnishing of contrary affirmative proof as to the actual cost) reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However in those instances where the uniforms furnished are made of ""wash and wear"" materials may be routinely washed and dried with other personal garments and do not require any special treatment such as dry cleaning daily washing or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract by the contractor by law or by the nature of the work there is no requirement that employees be reimbursed for uniform maintenance costs.

### \*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\*

The duties of employees under job titles listed are those described in the ""Service Contract Act Directory of Occupations"" Fifth Edition (Revision 1) dated September 2015 unless otherwise indicated.

\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE Standard Form 1444 (SF-1444) \*\*

#### Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e. the work to be performed is not performed by any classification listed in the wage determination) be classified by the contractor so as to provide a reasonable relationship (i.e. appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification wage rate and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested

parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- When preparing the bid the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award the contractor prepares a written report listing in order the proposed classification title(s) a Federal grade equivalency (FGE) for each proposed classification(s) job description(s) and rationale for proposed wage rate(s) including information regarding the agreement or disagreement of the authorized representative of the employees involved or where there is no authorized representative the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action together with the agency's recommendations and pertinent information including the position of the contractor and the employees to the U.S. Department of Labor Wage and Hour Division for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt the Wage and Hour Division approves modifies or disapproves the action via transmittal to the agency contracting officer or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See 29 CFR 4.6(b)(2)(iii)).

Information required by the Regulations must be submitted on SF-1444 or bond paper.

When preparing a conformance request the ""Service Contract Act Directory of Occupations" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember it is not the job title but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split combine or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."

## ATTACHMENT J AFFIDAVIT re CONTINGENT FEES

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#### EXHIBIT B

### UOG BID NO. B21-

17

### PURCHASING OF HVAC EQUIPMENT OF THE UNIVERSITY OF GUAM

#### Scope of Work

### 1. Scope of the Work

This bid is to select and award a contract for the purchasing of multiple Air Conditioning units for the University of Guam.

### 2. Bid Submittals

- a) Bid prices shall be submitted on Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional cost not stated in this bid but are required to complete the delivery and installation must be included in the bidder's price.
- b) Bidder shall submit an electronic copy to the Share folder that UOG procurement officeprovides.

Contractor is required to submit prices for Table 1.0.

Bid award to be based on the required items in Table 1.0 and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package, BID NO. B21-17.

Table 1.0 Bid Price Form

	W DEGO	RIPTIO	IV	ł	BID Price
LOCATION	JNIT	TONS	VOLTAGE	TVX	
		50	208 / 230	2 EA 25	
		40	208 / 230	2 EA	
MAIN ENTRANCE 7.5RFK BUILDING FIRST FLOO	1 OR	15	208 / 230	2 EA	
	1 OR	15	208 / 230	2 EA	
OFFICES	1	20	208 / 230	2 EA 10	
10SCIENCE BUILDING FIRST	1	20	208 / 230	2 EA	
20SCIENCE BUILDING	1	40	208 / 230	2 EA	
SECOND FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	
THIRD FLOOR 10EGLISH COMMUNICATION	1	20	208 / 230	2 EA	
BUILDING CLASSROO 15COMPUTER CENTER OIT	1	30	208 / 230	2 EA	
	RFK BUILDING SECOND FLOOR RFK BUILDING FIRST FLOOR 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 7.5RFK BUILDING FIRST FLOOR AV ROOM 7.5RFK BUILDING FIRST FLOOR OFFICES PIP (GLE) SECOND FLOOR 10SCIENCE BUILDING FIRST FLOOR 20SCIENCE BUILDING SECOND FLOOR 20SCIENCE BUILDING THIRD FLOOR 10EGLISH COMMUNICATION BUILDING CLASSROO	RFK BUILDING SECOND FLOOR 1 RFK BUILDING FIRST FLOOR 1 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 1 7.5RFK BUILDING FIRST FLOOR AV ROOM 1 7.5RFK BUILDING FIRST FLOOR OFFICES 1 PIP (GLE) SECOND FLOOR 1 10SCIENCE BUILDING FIRST FLOOR 1 20SCIENCE BUILDING SECOND FLOOR 1 20SCIENCE BUILDING THIRD FLOOR 1 10EGLISH COMMUNICATION BUILDING CLASSROO 1	RFK BUILDING SECOND FLOOR 1 50 RFK BUILDING FIRST FLOOR 1 40 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 1 15 7.5RFK BUILDING FIRST FLOOR AV ROOM 1 15 7.5RFK BUILDING FIRST FLOOR OFFICES 1 20 PIP (GLE) SECOND FLOOR 1 20 10SCIENCE BUILDING FIRST FLOOR 1 40 20SCIENCE BUILDING SECOND FLOOR 1 40 20SCIENCE BUILDING THIRD FLOOR 1 20 10EGLISH COMMUNICATION BUILDING CLASSROO 1 30	RFK BUILDING SECOND FLOOR 1 50 208 / 230  RFK BUILDING FIRST FLOOR 1 40 208 / 230  20RFK BUILDING FIRST FLOOR  MAIN ENTRANCE 1 15 208 / 230  7.5RFK BUILDING FIRST FLOOR  AV ROOM 1 15 208 / 230  7.5RFK BUILDING FIRST FLOOR  OFFICES 1 20 208 / 230  PIP (GLE) SECOND FLOOR 1 20 208 / 230  10SCIENCE BUILDING FIRST  FLOOR 1 40 208 / 230  20SCIENCE BUILDING  SECOND FLOOR 1 40 208 / 230  20SCIENCE BUILDING  THIRD FLOOR 1 20 208 / 230  10EGLISH COMMUNICATION  BUILDING CLASSROO 1 30 208 / 230	RFK BUILDING SECOND FLOOR 1 50 208 / 230 2 EA 25 RFK BUILDING FIRST FLOOR 1 40 208 / 230 2 EA 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 1 15 208 / 230 2 EA 7.5RFK BUILDING FIRST FLOOR AV ROOM 1 15 208 / 230 2 EA 7.5RFK BUILDING FIRST FLOOR OFFICES 1 20 208 / 230 2 EA 10 PIP (GLE) SECOND FLOOR 1 20 208 / 230 2 EA 10 SCIENCE BUILDING FIRST FLOOR 1 40 208 / 230 2 EA 20 SCIENCE BUILDING SECOND FLOOR 1 40 208 / 230 2 EA 20 SCIENCE BUILDING THIRD FLOOR 1 20 208 / 230 2 EA 10 EGLISH COMMUNICATION BUILDING CLASSROO 1 30 208 / 230 2 EA

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Delive	ry:weeks after receipt of	purchase	e order		
Grand	Total				
	HSS BUILDING 1	30	277 / 460	2 EA. – 15	
	HSS BUILDING 2	50	277 / 460	2 EA. – 25	
	MARINE LAB SECOND FLOOR 2	10	208 / 230	2 EA. – 5	
	MARINE LAB FIRST FLOOR 2	10	208 / 230	2 EA 5	
	LECTURE HALL AUDITORIUM 1	20	277 / 460	2 EA 10	
	BUILDING FIRST FLOOR 1	50	277 / 460	2 EA 25	

#### **OPTIONS**

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to excercise any or part of the options requested. Insert any additional options recommended.

### **Table 2.0 Options**

Item Description	Price
Services for Maintenance and upkeep.	
Services for disposal.	
Replacement/trade in program	
	Services for Maintenance and upkeep.  Services for disposal.

### OTHER NOTES:

- 1. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
- 2. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

NOTE: Name and title of author of specifications:

University of Guam

Glenn Leon Guerrero, Director, Facilities Mangement & Services, Email: glennlg@triton.uog.edu

Emily Gumataotao, Supply Management Administrator, Email: eggumataotao@triton.uog.edu



### **EXHIBIT A**

**University of Guam** 

# BID SPECIFICATIONS OR EQUIVALENT

BID NO. <u>B21-17</u>

JR0529 UOG HVAC EQUIPMENT PURCHASE 4/27/2021

Prepared by:



Prepared for:

**UNIVERSITY OF GUAM** 





## **SECTION 23 81 00 DECENTRALIZED UNITARY HVAC EQUIPMENT**

#### PART 1

#### **GENERAL**

#### **REFERENCES** 1.1

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

## AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. (AMCA)

AMCA 500-D (2018) Laboratory Methods of Testing Dampers for Rating AMCA 500-L (2015) Laboratory Methods of Testing Louvers for Rating

## AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

**AHRI 540** (2015) Performance Rating Of Positive Displacement Refrigerant Compressors

**And Compressor Units** 

**AHRI 700** (2016) Specifications for Fluorocarbon Refrigerants

(2008; Add 1 2011; Add 2 2012) Performance Rating of Unitary Air-Conditioning ANSI/AHRI 210/240

& Air-Source Heat Pump Equipment

ANSI/AHRI 270 (2008) Sound Rating of Outdoor Unitary Equipment

(2005) Performance Rating of Remote Mechanical-Draft Air-Cooled Refrigerant ANSI/AHRI 460

Condensers

#### AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34 (2013) ANSI/ASHRAE Standard 15

Safety Standard for refrigeration systems and ANSI/ASHRAE Standard

34-Designtion and Safety Classification of Refrigerants

**ASHRAE 15 & 34** (2013) ASHRAE Standard 34-2016 Safety

Standard for Refrigeration Systems/ASHRAE Standard 34-2016

Designation and Safety Classification of Refrigerants-ASHRAE Standard

34-2016

**ASHRAE 52.2** (2012) Method of Testing General Ventilation Air-Cleaning Devices for

Removal Efficiency by Particle Size

**ASHRAE 55** (2010) Thermal Environmental Conditions for Human Occupancy

**ASHRAE 62.1** (2010) Ventilation for Acceptable Indoor Air Quality

**ASHRAE 64** (2011) Methods of Testing Remote Mechanical-Draft Evaporative

**Refrigerant Condensers** 

ASHRAE 90.1 - IP (2013) Energy Standard for Buildings Except Low-Rise Residential

**Buildings** 

**ASHRAE 90.1 - SI** (2013) Energy Standard for Buildings Except Low-Rise Residential

Buildings





## **ASTM INTERNATIONAL (ASTM)**

ASTM A307 (2014; E 2017) Standard Specification for Carbon Steel Bolts,

Studs, andThreaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM C1071 (2019) Standard Specification for Fibrous Glass Duct Lining Insulation

(Thermal and Sound Absorbing Material)

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2020) Standard Test Method for Surface Burning Characteristics of

**Building Materials** 

ASTM F104 (2011; R 2020) Standard Classification System for onmetallic Gasket

**Materials** 

## NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA ICS 6 (1993; R 2016) Industrial Control and Systems:Enclosures

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and Generators

## NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA20-1; TIA 20-2; TIA 20-3;

TIA 20-4) National Electrical Code

## **UNDERWRITERS LABORATORIES (UL)**

UL 586 (2009; Reprint Dec 2017) UL Standard for Safety High-Efficiency

Particulate, Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment



## AMORIENT

#### 1.2 SUBMITTALS

SD-03 Product Data Spare Parts

Posted Instructions

Coil Corrosion Protection System Performance Tests Training

**Inventory** 

Environmental Data

**Supplied Products** 

**SD-06 Test Reports** 

Refrigerant Tests, Charging, and Start-Up

System Performance Tests

**SD-07 Certificates Service** 

**Organizations** 

SD-10 Operation and Maintenance Data

**Operation and Maintenance Manuals** 

## 1.3 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventory of all the stored items. Replace any materials found to be damaged, at no additional cost to the Government. During installation, cap piping and similar openings capped to keep out dirt and other foreign matter.

## 1.4 ENVIRONMENTAL REQUIREMENTS

For proper Indoor Environmental Quality, maintain pressure within the building as indicated. Ventilation must meet or exceed ASHRAE 62.1 and all published addenda. Meet or exceed filter media efficiency as tested in accordance with ASHRAE 52.2. Thermal comfort must meet or exceed ASHRAE 55.

#### 1.5 WARRANTY

Provide equipment with the 1 year manufacturer's warranty

#### PART 2 PRODUCTS

#### 2.1 MATERIALS

Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, etc. in adequate detail to demonstrate compliance with contract requirements. Data includes manufacturer's recommended installation instructions and procedures. If vibration isolation is specified for a unit, include vibration isolator literature





containing catalog cuts and certification that the isolation characteristics of the isolators provided meet the manufacturer's recommendations. Submit data for each specified component. Minimum efficiency requirementsmust be in accordance with ASHRAE 90.1.

#### 2.1.1 Standard Products

Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard productsmust have been in satisfactory commercial or industrial use for 2 years prior to bid opening. The 2 year use includes applications of equipment and materials under similar circumstances and of similar size. The 2 years' experience must be satisfactorily completed by a product which has been sold or is offered for sale on the commercial market through advertisements, manufacturer's catalogs, or brochures. Products having less than a 2 year field service record will be acceptable if a certified record of satisfactory field operation, for not less than 6000 hours exclusive of the manufacturer's factory tests, can be shown. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.

#### 2.1.2 Product Sustainability Criteria

#### 2.1.2.1 Energy Efficient Equipment

Provide equipment meeting the minimum efficiency requirement as required by ASHRAI 90.1.

#### 2.1.2.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated, all motors of 1 horsepower and above with open, drip proof, totally enclosed, or explosion proof fan cooled enclosures, must be the premium efficiency type in accordance with NEMA MG 1. Field wiring must be in accordance with manufacturer's instructions. Each motor must conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at the specified capacity without exceeding the nameplate rating of the motor. Motors must be continuous duty with theenclosure specified. Motor starters must be provided complete with thermal overload protection and other appurtenances necessary for the motor control indicated. Motors must be furnished with a magnetic across-the-line or reduced voltage type starter as required by the manufacturer. Motor duty requirements must allow for maximum frequency start-stop operation and minimum encountered interval between start and stop. Motors must be sized for the applicable loads. Motor torque must be capable of accelerating the connected load within 20 seconds with 80 percent of the rated voltage maintained at motor terminals during one starting period. Motor bearings must be fitted with grease supply fittings and grease relief to outside of enclosure. Manual or automatic control and protective or signal devices required for the operation specified and any control wiring required for controls and devices specified, but not shown, must be provided.

#### 2.1.2.3 Ozone Depleting Substances

Unitary air conditioning equipment must not use CFC-based refrigerants. Refrigerant shall be R-410A or may be an approved alternative refrigerant in accordance with EPA's Significant New Alternative Policy (SNAP) listing.

#### 2.1.3 Nameplates

Major equipment including compressors, condensers, receivers, heat exchanges, fans, and motors must have the manufacturer's name, address, type or style, model or serial number, and catalog number on a plate secured to the item of equipment. Plates must be durable and legible throughout equipment life and made of stainless steel. Fix plates in prominent locations with nonferrous screws or bolts.





#### 2.1.4 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices. Safety devices must be installed so that proper operation of equipment is not impaired. Welding and cutting safety requirements must be in accordance with AWS Z49.1.

#### 2.2 EQUIPMENT

## 2.2.1 Large-Capacity Split-System Air Conditioners (Greater Than 65,000 Btu/h)

Provide an air-cooled, split system which employs a remote condensing unit, a separate indoor unit, and interconnecting refrigerant piping. Provide the air conditioning type unit conforming to applicable Underwriters Laboratories (UL) standards including UL 1995. Unit must be rated in accordance with ANSI/AHRI 210/240. Provide unit with necessary fans, air filters, and cabinet construction as specified in paragraph UNITARY EQUIPMENT ACCESSORIES. Provide double-width, double inlet, forward curved centrifugal scroll type evaporator or supply fans. Provide the manufacturer's standard for the unit specified and may be centrifugal scroll type condenser or outdoorfans. Enclose fan condenser motors in totally enclosed enclosures and permanently lubricate ball bearings. Air Conditioners must have a minimum energy efficiency ratio (EER) of 12.

#### 2.2.1.1 Air-To-Refrigerant Coil

Provide coils with copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Provide casing of galvanized steel. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil testing and prior to evaluation and charging. Provide each unit with a factory operating charge of refrigerant and oil. Field charge unit shipped with a holding charge with refrigerant and oil. Provide separate expansion devices for each compressor circuit. Condenser coil must have special coating for corrosion resistance. Condenser coil must be copper finned. Coat condenser and evaporator coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surface areas without material bridging between fins. Apply coating at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation and be capable of withstanding a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.

#### 2.2.1.2 Refrigeration Circuit

Refrigerant-containing components must comply with ASHRAE 15 & 34 and be factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves and connections, and pumpdown valves foreach circuit.

#### 2.2.1.3 Unit Controls

Provide unit internally prewired with a 208 volt control circuit powered by an internal transformer. Provide terminal blocks for power wiring and external control wiring. Unit must have cutoffs high and low pressure, and low oil pressure for compressors with positive displacement oil pumps, supply fan failure, and safety interlocks on all service panels. Stage multiple compressors by means of a time delay. Internally protect unit by a circuit breaker in accordance with UL 1995.





#### 2.2.1.4 Condensing Unit

Fit each remote condenser coil with a manual isolation valve and an access valve on the coil side. Saturated refrigerant condensing temperature must not exceed 120 degrees F at 95 degrees F ambient. Fan and condensermotors must have totally enclosed enclosures.

#### 2.2.1.4.1 Air-Cooled Condenser

Provide unit rated in accordance with ANSI/AHRI 460 and conform to the requirements of UL 1995. Provide factoryfabricated, tested, packaged, and self-contained unit. Unit must be complete with casing, propeller or centrifugal type fans, heat rejection coils, connecting piping and wiring, and all necessary appurtenances.

- Provide interconnecting refrigeration piping, electrical power, and control wiring between the condensing unit and the indoor unit as required and as indicated.
   Provide electrical and refrigeration piping terminal connections between condensing unit and evaporator units.
- b. Low ambient control for multi-circuited units serving more than one evaporator coil must provide independent condenser pressure controls for each refrigerant circuit. Set controls to produce a minimum of 95 degrees F saturated refrigerant condensing temperature. Provide unitwith a liquid subcooling circuit that ensures proper liquid refrigerant flow to the expansion device over the specified application range of the condenser. Unit must be provided with manufacturer's standard liquid subcooling. Liquid seal the subcooling circuit.
- c. Coils must have copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Protect coil in accordance with paragraph COIL CORROSION PROTECTION. Casing must be galvanized steel or aluminum. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil after testing and prior to evaluation and charging. Provide each unit with a factory operating charge ofrefrigerant and oil or a holding charge. Field charge unit shipped with a holding charge. Provide separate expansion devices for each compressor circuit.
- d. Provide a complete control system with required accessories for regulating condenser pressure by fan cycling, solid-state variable fan speed, modulating condenser coil or fan dampers, flooding the condenser, or a combination of the above. Construct unit mounted control panels or enclosures in accordance with applicable requirements of NFPA 70 and house in NEMA ICS 6, Class 1 or 3A enclosures. Controls must include overload protective devices, interface with local and remote components, and intercomponent wiring to terminal block points.

#### 2.2.1.4.2 Compressors

Provide compressor rated in accordance with AHRI 540. Provide direct drive, semi-hermetic or hermetic reciprocating, or scroll type compressor capable of operating at partial load conditions. Compressor must be capable of continuous operation down to the lowest step of unloading as specified. Provide units 120,000 Btuh and larger with capacity reduction devices to produce automatic capacity reduction of at least 50 percent. If standard with the manufacturer, two or more compressors may be used in lieu of a single compressor with unloading capabilities, in which case the compressors operate in sequence, and each compressor must have an independent refrigeration circuit through the condenser and evaporator. Each compressor must start in the unloaded position. Provide each compressor with vibration isolators, crankcase heater, lubrication pump, thermal overloads, and high and low pressure safety cutoffs and protection against short cycling.





#### 2.2.1.5 Filters

Provide filters of the sectional or panel type, capable of filtering the entire air supply. Mount filter(s) integral within the unit and make accessible by hinged access panel(s). Factory supply 2.0 inch, MERV 13, throwaway filters. Filters must have an average dust spot efficiency of 90-95 percent and an average arrestance of 90 percentwhen tested in accordance with ASHRAE 52.2. Provide UL Class 1 filters.

#### 2.4 COMPONENTS

#### 2.4.1 Refrigerant and Oil

The air-conditioning system shall use R410A. Refrigerants must have number designations and safety classifications in accordance with ASHRAE 15 & 34. Refrigerants must meet the requirements of AHRI 700 as a minimum. Provide a complete charge of refrigerant for the installed system as recommended by the manufacturer. Lubricating oil must be of a type and grade recommended by the manufacturer for each compressor. Where color leak indicator dye is incorporated, charge must be in accordance with manufacturer's recommendation.

#### 2.4.2 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the cfm required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanized steel. Mill- galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive. Propeller fans must be V-belt drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenanceaccessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields. Vbelt drives mustbe fitted with guards where exposed to contact by personnel and fixed pitch sheaves.

#### 2.4.3 Air Filters

Provide filters to filter outside air and return air and locate inside combination air filter mixing box. Provide replaceable (throw-away) high efficiency type. Filters must conform to UL 900, Class 1. Polyurethane filters cannot be used on units with multiframe filters. Air filters must be listed in accordance with requirements of UL 900, except high efficiency particulate air filters of 99.97 percent efficiency by the DOP Test Method mustbe as listed under the label service and must meet the requirements of UL 586.

#### 2.4.3.1 High Efficiency Filters

Additional high efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure drop across





clean filter shall not exceed 1 inches of water gage.

#### 2.4.5 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally sized openings, each capable offull air flow. Arrangement must be as indicated.

#### 2.4.6 Cabinet Construction

Casings for the specified unitary equipment must be constructed of galvanized steel with a weather and corrosion resistant enamel finish or aluminum sheet metal and galvanized or aluminum structural members. If cabinet is enamel-finished galvanized steel, the cabinet finish shall be tested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000 hours. Such documentation shall be included in all submittals. Minimum thickness of single wall exterior surfaces must be 18 gauge galvanized steel or 0.071 inch thick aluminum on units with a capacity above 20 tons and 20 gauge galvanized steel or 0.064 inch thick aluminum on units with a capacity less than 20 tons. Casing must be fitted with lifting provisions, access panels or doors, fan vibration isolators, electrical control panel, corrosion-resistant components, structural support members, insulated condensate drip pan and drain, and internal insulation in the cold section of the casing. Where double-wall insulated construction is proposed, minimum exterior galvanized sheet metal thickness must be 20 gauge. Provisions to permit replacement of major unit components must be incorporated. Penetrations of cabinet surfaces, including the floor, must be sealed. Unit must be fitted with a drain pan which extends under all areas where water may accumulate. Drain pan must be fabricated from Type 300 stainless steel, galvanized steel with protective coating as required, or an approved plastic material. Pan insulation must be water impervious. Extent and effectiveness of the insulation of unit air containment surfaces must prevent, within limits of the specified insulation, heat transfer between the unit exterior and ambient air, heat transfer between the two conditioned airstreams, and condensation on surfaces. Insulation must conform to ASTM C1071.

#### 2.4.6.1 Indoor Cabinet

Indoor cabinets must be suitable for the specified indoor service and enclose all unit components.

#### 2.4.6.2 Outdoor Cabinet

Outdoor cabinets must be suitable for outdoor service with a weathertight, insulated and corrosion-protected structure. Cabinets constructed exclusively for indoor service which have been modified for outdoor service arenot acceptable.

#### 2.6 FINISHES

#### 2.6.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surface areas without material bridging between fins. Submit product data on the type coating selected, the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable of with standing a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percentsodium chloride solution.





## 2.6.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must have weather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coatingmust show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

#### 2.6.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Providea minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

## 2.6.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the firsttwo finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coilsurfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

#### 2.6.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
- c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

#### 2.6.3 Factory Applied Insulation



## AMORIENT

Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higherthan 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actualconstruction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

## 2.7 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unit is in compliance with ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - IP have been met.





## DIVISION23-HEATING, VENTILATING, AND AIRCONDITIONING (HVAC)

## (HVAC) SECTION 23 81 29 VARIABLE REFRIGERANTFLOWHVACSYSTEMS

#### PART 1 **GENERAL**

#### 1.1 SUMMARY

Provide a complete Air Source, Cooling Only type Variable Refrigerant Flow (VRF) System consisting of one or moreoutdoor compressor units and multiple indoor fan coil units as specified in this Section and in accordance with the following:

- a. The complete system must be a tested combination in accordance with AHRI 1230.
- b. Provide cooling only control for each zone
- For systems which simultaneously heat and cool, the outdoor units must be C. interconnected to the indoor units through branch selector boxes in accordance with the manufacturer's engineering data detailing each indoor unit. The indoor units and outdoor must be connected to the branch selector boxes utilizing the manufacturer's specified piping joints and headers.

#### 1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications arereferred to within the text by the basic designation only.

## AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

**AHRI 1230** (2010; Addendum 1 2011; Addendum 2 2014) Performance

Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-

Conditioning and HeatPump Equipment

ANSI/AHRI 270 (2008) Sound Rating of Outdoor Unitary Equipment

ANSI/AHRI 760 (2007) Performance Rating of Solenoid Valves for Use With

**VolatileRefrigerants** 

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34 (2013) ANSI/ASHRAE Standard 15-Safety Standard for Refrigeration

Systems and ANSI/ASHRAE Standard 34-Designation

and SafetyClassification of Refrigerants

ASHRAE 90.1 - IP (2013) Energy Standard for Buildings Except Low-Rise

ResidentialBuildings

ASTM INTERNATIONAL (ASTM)

**ASTM A307** (2014; E 2017) Standard Specification for Carbon Steel Bolts, Studs, and



## AMORIENT

Threaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2020) Standard Test Method for Surface Burning

**Characteristics of Building Materials** 

ASTM F104 (2011; R 2020) Standard Classification System for Nonmetallic

**GasketMaterials** 

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA 250 (2018) Enclosures for Electrical Equipment (1000 Volts Maximum)

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and

Generators

U.S. DEPARTMENT OF ENERGY (DOE)

Energy Star (1992; R 2006) Energy Star Energy Efficiency Labeling System (FEMP)

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR 82 Protection of Stratospheric

Ozone UNDERWRITERS

LABORATORIES (UL)

UL 207 (2009; Reprint Jan 2020)

Refrigerant-Containing Components and Accessories, Nonelectrical

UL 429 (2013; Reprint Jan 2020) Electrically Operated Valves
UL 586 (2009; Reprint Dec 2017) UL Standard for Safety High-

Efficiency Particulate, Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment

#### 1.3 SUBMITTALS

**SD-01 Preconstruction Submittals** 

**Verification Of Existing** 

**Conditions** 

**SD-02 Shop Drawings** 

**VRF System Contractor Design** 

**DrawingsSD-03 Product Data** 

**Spare Parts Data** 





**Coil Corrosion Protection** 

Manufacturer's Standard Catalog

**DataSample Warranty** 

Refrigerant SDS

Sheets SD-05 Design Data

Manufacturer's Engineering

**DataSD-06 Test Reports** 

System Performance

**Tests SD-07 Certificates** 

Service

**Organizations** 

Warranty

Electronic Refrigerant Leak Detector Calibration

**Ozone Depleting Substances Technician** 

Certification

SD-08 Manufacturer's Instructions Manufacturer's

Instructions SD-09 Manufacturer's Field Reports

Refrigerant Charging

#### 1.4 QUALITY ASSURANCE

Complete VRF systems must be purchased from a single supplier. The VRF system supplier must be responsible for providing a fully functional VRF system.

Prior to purchase of equipment, shop drawings (e.g. equipment layout, plans and elevations, refrigerant piping system plans, etc.) must be approved by the VRF manufacturers representative. Include approval with name and contact information of VRF manufacturer's representative in the submittal.

#### 1.5 QUALITY CONTROL

#### 1.5.1 Standard Products

Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard products must have been in satisfactory commercial or industrial use for 3 years immediately prior to the solicitation of this contract. The 3 year use includes applications of equipment and materials under similar circumstances and of similar size. The 3 years' experience must be satisfactorily completed by a product which has been sold on the commercial market through advertisements, manufacturer's





catalogs, or brochures. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.





## 1.5.2 Manufacturer's Engineering Data

Submit VRF manufacturer's engineering data with the shop drawings under separate cover.

Strike outirrelevant items and options not to be provide all input and output reports for all selection procedures required by the manufacturer and as required by this section. Engineering data must include:

- a. Selection Procedures:
  - 1. Indoor and Outdoor Units
  - 2. Branch Selector Units
  - 3. Piping Material and Fittings
  - 4. Refrigerant Mass for system
  - 5. Refrigerant Classification
- b. System Efficiency Curves/Data including:
  - 1. Efficiency correlated with OAT
  - 2. At least five (5) data points covering full range of operation
  - 3. Minimum and maximum values over the operational range
  - 4. Efficiency at Standard AHRI conditions.

#### 1.5.3 Manufacturer's Instructions

Submit VRF manufacturer's instructions with the shop drawings under separate cover.

Strike outirrelevant items and options not to be installed. Provide with the following:

- a. Installation: Include mechanical, electrical, controls and piping complete installation requirements.
- b. Operation: Include startup, normal operation and shutdown procedures.
- c. Maintenance: Include preventative.

## 1.6 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventory of all the stored items. Replace any materials found to be damaged, at no additional cost to the Government.

During installation, keep piping and similar openings capped to keep out dirt and other foreign matter.

#### 1.7 WARRANTY

Provide VRF manufactured equipment with the Manufacturer's Standard Warranty in addition to the Warranty of Construction. Submit Sample Warranty prior to construction. Compare warranty requirements with the requirements of this contract and identify discrepancies in the submittal that would prevent coverage of warrantyby the manufacturer.

#### PART 2 PRODUCTS

All products used to meet this specification must meet the indicated requirements, but not all products specified here will be required by every project.





#### 2.1 MATERIALS

Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, in adequate detail to demonstrate compliance with contract requirements. If field installed vibration isolation is specified for a unit, include vibration isolator literature containing catalog cuts and certification that the isolation characteristics of theisolators provided meet the manufacturer's recommendations. Submit data for each specified component.

Minimum efficiency requirements must be in accordance with ASHRAE 90.1 - IP.

#### 2.1.1 Performance Requirements

Provide energy efficiency curve and data of EFFICIENCY vs. OAT. Provide at least five data points over the full range of operation capturing the minimums and maximums.

## 2.1.1.1 Variable Refrigerant Flow Multi-Split Air Conditioners

Information on Energy Star requirements can be found at <a href="https://www.energystar.gov/products/heating-cooling/light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-cooling-l

## 2.1.1.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated and field wiring must be in accordance with manufacturer's instructions. All motor(s):

- a. 1 horsepower and above must be the premium efficiency type in accordance with NEMA MG 1.
- b. Conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at thespecified capacity without exceeding the nameplate rating.
- c. Continuous duty with the enclosure specified.
- d. Starters must be provided complete with thermal overload protection and other appurtenancesnecessary for the motor control indicated.
- e. Furnished with a magnetic across-the-line or reduced voltage type starter as required by themanufacturer.
- f. Duty requirements must allow for maximum frequency start-stop operation and minimumencountered interval between start and stop.
- g. Must be sized for all applicable loads.
- h. Bearings with grease supply fittings must have grease relief to outside of enclosure.
- i. Automatic control and protective or signal devices required for the operation specified and anycontrol wiring required for controls and devices specified, but not shown, must be provided.





#### 2.1.1.3 Refrigerant

The air-conditioning system shall use R410A.

#### 2.1.2 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices.

#### 2.2.1 Zone Control

Provide a Space Sensor Module for each fan coil unit unless otherwise indicated in contract drawings and withthe following additional requirements:

- a. Displays the current temperature, temperature setpoint, fans status, occupancy status and conditioning mode at the same time. If information is displayed electronically then it must be illuminated.
- b. Temperature setpoint adjustment in one degree increments.
- c. Fans speed control (At least: High-low-Auto).
- d. Occupancy override button which changes the mode of the zone to occupied for one hour perpress of occupancy override button with 8 hours maximum at any instance.

#### 2.3 INDOOR FAN COIL

#### UNITS Provide with the

#### following:

- a. Factory complete, tested and pre-wired with all necessary electronic and refrigerantcontrols.
- b. Equipped with auto-restart function and test run capability either via a switch or controller.
- c. Refrigerant: Refrigerant circuits factory-charged with dehydrated inert gas.
- d. Coils: Direct expansion type constructed from copper, aluminum, or copper and aluminum.
- e. Fans: Direct-drive, with statically and dynamically balanced impellers; variable speed ECM unlessotherwise indicated; motor thermally protected.
- f. Return Air Filter: Washable long-life net filter with mildew proof resin, or replaceable, unlessotherwise indicated.
- g. Condensate Drainage: Built-in condensate drain pan with drain connection.
- h. Dedicated electronic modulating refrigerant expansion and flow control.





- Unit must be in accordance with UL 1995 and AHRI 1230.
- j. For units with Built-In Condensate Pumps, provide condensate safety shutoff and alarm. For units without Built-In Condensate Pump, provide built in or field supplied overflow protection.

#### 2.3.1 Concealed-In-Ceiling

Units Provide with the following:

- a. Ducted horizontal discharge and return; galvanized steel cabinet in accordance with Section 23 30 00 HVAC AIR DISTRIBUTION.
- b. Field adjustable external static pressure switch for high efficiency filter operation.
- c. Switch box accessible from side or bottom.

#### 2.3.2 Recessed Ceiling

Units Provide with the

#### following:

- a. Four-way airflow cassette with central return air grille, for installation in a fixed ceiling, unless otherwise indicated.
- Exposed Housing: White, impact resistant, with washable decoration panel.
- c. Supply Airflow Adjustment:
  - (1) Via motorized louvers which can be horizontally and vertically adjusted from 0 to 90 degrees.
  - (2) Field-modifiable to 3-way and 2-way airflow.

#### 2.3.3 Wall Surface-Mounted

UnitsProvide with the following:

- a. Finished white casing, with removable front grille; sound insulation; wall mounting plate; condensate drain pan.
- b. Airflow Control: Auto-swing louver that closes automatically when unit stops; adjustable discharge angle, set using remote controller; upon restart, discharge angle defaulting to sameangle as previous operation.
- c. Fan: Direct-drive cross-flow type.
- Condensate Drain Connection: Side (end), not concealed in wall.

#### 2.4 OUTDOOR

**COMPRESSOR UNIT** 

Provide with the following:





- a. The outdoor unit must have one or more variable capacity compressors or alternative method resulting in three or more steps of capacity needed to load match the indoor unit fan coils at alltimes.
- b. The unit must be factory complete, tested and pre-wired with all necessary electronic and refrigerant controls.
- c. The sound pressure dB(A) at rated conditions must be a value of 58 decibels at 3 feet from the front of the unit when rated in accordance with ANSI/AHRI 270.
- d. The unit must automatically restart normal operation after a power failure of any durationwithout reprogramming or manual assistance.
- e. Oil recovery cycle must be automatic occurring a minimum of 2 hours after start of operation and then at least every 8 hours of operation.
- f. Each outdoor unit must have it's own dedicated power feed, each with disconnect and main power circuit breaker.
- g. The unit must be in compliance with ANSI/ASHRAE 15 & 34, factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves. Filter-drier must be provided in liquid line.
- h. The outdoor units capacity must meet or exceed the scheduled value in the contract drawings. The ratio of the outdoor unit capacity to the total connected indoor capacity must be in accordance with the manufacturer's recommendations for selecting the outdoor unit.
- i. Unit must be in accordance with UL 1995 and AHRI 1230

#### 2.4.1 Air-Cooled

The unit must must have full design cooling capacity at 95 degrees F dry bulb ambient.

#### 2.4.2 Casing

Construct the unit of zinc coated, heavy-gage (14-gage minimum) galvanized steel. The cabinet finish shall be tested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000 hours. Such documentation shall be included in all submittals. Provide cabinet panels with lifting handles andwater- and air-tight seal. Insulate all exposed vertical panels, top covers and base pan.

#### 2.4.3 Compressor

Each compressor system must have the following:

- High pressure safety switch, and internal thermal overload protection.
- b. Factory installed vibration dampeners on all mounting points.
- c. Factory installed crank case heater or other control logic to ensure reliable operation in freezing environments.
- d. Oil separator with an oil balance circuit.





#### 2.5 COMPONENTS

#### 2.5.1 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the flow rate required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanizedsteel. Mill-galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Direct-drive fan motors must be of the multiple-speed variety. Belt-driven fans must have adjustable sheaves. The sheave size must be selected so that the fan speed at the approximate midpoint of the sheave adjustment will produce the specified air quantity. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive.

Propeller fans must be direct-drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields. V-belt drives must be fitted with guards where exposed to contact by personnel and fixed pitch sheaves. Axial fans may not be used to distribute air through duct systems.

#### 2.5.2 Air Filters

High efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure dropacross clean filter shall not exceed 1 inches of water gage.

#### 2.5.3 Internal Dampers

Dampers must be parallel blade type with renewable blade seals and be integral to the unitary unit. Damper provisions must be provided for each outside air intake, exhaust, economizer, and mixing boxes. Dampers must have manual modulation and operate as specified.

#### 2.5.4 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally-sized openings, each capable offull air flow. Arrangement must be as indicated.

#### 2.5.5 Refrigerant Solenoid Valves

Solenoid valves must comply with ANSI/AHRI 760 and UL 429, be suitable for continuous duty rated voltage at maximum and minimum encountered pressure and temperature service conditions. Solenoid valves must be direct-acting or pilot-operating type, packless, seal capped. Manual lifting provisions must be furnished. Solenoid coils must comply with NEMA 250 type 4.

Valves must have safe working pressure of 125 percent of maximum working pressure and a maximum operating pressure differential of at least half of the valve maximum working pressure at 85 percent rated voltage. Valves must have an operating pressure differential suitable for the fluid phase and refrigerant used.





## 2.5.6 Branch Selector Unit

Branch Selector port control must be provided for each connected indoor unit to enable individual heating and cooling selection year round unless otherwise indicated in the contract drawings. The cabinet must be galvanized steel. The branch selector units must be factory assembled, wired, piped and run tested.

## 2.6 EQUIPMENT ACCESSORIES AND MISCELLANEOUS EQUIPMENT

#### 2.6.1 Refrigerant Leak Detector

Provide continuously-operating, halogen-specific type refrigerant leak detector. Detector must be appropriate forthe refrigerant in use.

Detector must be specifically designed for area monitoring and must include a single sampling point installed where indicated. Detector design and construction must be compatible with the temperature, humidity, barometric pressure and voltage fluctuations of the operating area. Detector must have an adjustable sensitivity such that it can detect refrigerant at or above 3 parts per million (ppm). Detector must be supplied factory- calibrated for the appropriate refrigerant(s). Detector must be provided with an alarm relay output which energizes when the detector detects a refrigerant level at or above the TLV-TWA (or toxicity measurement consistent therewith) for the refrigerant in use. The detector's relay must be capable of initiating corresponding alarms and ventilation system as indicated on the drawings. Detector must be provided with a failure relay output that energizes when the monitor detects a fault in its operation.

#### 2.6.2 Refrigerant Signs

Refrigerant signs must be a medium-weight aluminum type with a baked enamel finish. Signs must be suitable forindoor or outdoor service. Signs must have a white background with red letters not less than 0.5 inches in height.

#### 2.6.2.1 Installation Identification

Provide each new refrigeration system with a refrigerant sign which indicates the following as a minimum:

- a. Contractor's name.
- b. Refrigerant number and amount of refrigerant.
- c. The lubricant identity and amount.
- d. Field test pressure applied.

#### 2.6.2.2 Controls and Piping Identification

Provide refrigerant systems containing more than 110 lb of refrigerant with refrigerant signs which designate thefollowing as a minimum:

- a. Valves or switches for controlling the refrigerant flow and the refrigerant compressor.
- b. Pressure limiting device(s).

#### 2.6.3 Gaskets





Provide gaskets conforming to ASTM F104 - classification for compressed sheet with nitrile binder and acrylic fibersfor maximum 700 degrees F service.

#### 2.6.4 Bolts and Nuts

Bolts and nuts must be in accordance with ASTM A307. The bolt head must be marked to identify the manufacturer and the standard with which the bolt complies in accordance with ASTM A307.

#### 2.7 FINISHES

#### 2.7.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surfaceareas without material bridging between fins. Submit product data on the type coating selected, the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable ofwithstanding a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percentsodium chloride solution.

## 2.7.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must have weather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coating must show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

#### 2.7.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Provide a minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

## 2.7.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the first two finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coilsurfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating





materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

#### 2.7.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
- c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

#### 2.7.3 Factory Applied Insulation

Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higher than 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actual construction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

## 2.8 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unit is in compliance with applicable ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - SI ASHRAE 90.1 - IP have been met.

## EXHIBIT B UOG BID NO. B21-

17

## PURCHASING OF HVAC EQUIPMENT OF THE UNIVERSITY OF GUAM

#### Scope of Work

## 3. Scope of the Work

This bid is to select and award a contract for the purchasing of multiple Air Conditioning units for the University of Guam.

#### 4. Bid Submittals

- a) Bid prices shall be submitted on Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional cost not stated in this bid but are required to complete the delivery and installation must be included in the bidder's price.
- b) Bidder shall submit an electronic copy to the Share folder that UOG procurement officeprovides.

Contractor is required to submit prices for Table 1.0.

Bid award to be based on the required items in Table 1.0 and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package, BID NO. B21-17.

Table 1.0 Bid Price Form

No.	ITEN	BID Price				
1	LOCATION U	INIT	TONS	VOLTAGE	TVX	
	RFK BUILDING SECOND FLOC		50	208 / 230	2 EA 25	
	RFK BUILDING FIRST FLOOR 20RFK BUILDING FIRST FLOO		40	208 / 230	2 EA	
	MAIN ENTRANCE 7.5RFK BUILDING FIRST FLOC	1 DR	15	208 / 230	2 EA	
	AV ROOM 7.5RFK BUILDING FIRST FLOC	1 DR	15	208 / 230	2 EA	
	OFFICES	1	20	208 / 230	2 EA 10	
	PIP (GLE) SECOND FLOOR 10SCIENCE BUILDING FIRST	1	20	208 / 230	2 EA	
	FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	
	SECOND FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	
	THIRD FLOOR 10EGLISH COMMUNICATION	1	20	208 / 230	2 EA	
	BUILDING CLASSROO 15COMPUTER CENTER OIT	1	30	208 / 230	2 EA	

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UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM

Grand		purchasi	e order		
O	T-4-1				
	HSS BUILDING 1	30	277 / 460	2 EA. – 15	
	HSS BUILDING 2	50	277 / 460	2 EA. – 25	
	MARINE LAB SECOND FLOOR 2	10	208 / 230	2 EA. – 5	
	MARINE LAB FIRST FLOOR 2	10	208 / 230	2 EA 5	
	LECTURE HALL AUDITORIUM 1	20	277 / 460	2 EA 10	
	BUILDING FIRST FLOOR 1	50	277 <i> </i> 460	2 EA 25	

**OPTIONS** 

Signature of Bidder

Date

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to excercise any or part of the options requested. Insert any additional options recommended.

#### **Table 2.0 Options**

No.	Item Description	Price
1	Services for Maintenance and upkeep.	
2	Services for disposal.	
3	Replacement/trade in program	
	Tropiace in program	

#### OTHER NOTES:

- 3. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
- 4. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

NOTE: Name and title of author of specifications:

University of Guam

Glenn Leon Guerrero, Director, Facilities Mangement & Services, Email: glennlg@triton.uog.edu

Emily Gumataotao, Supply Management Administrator, Email: eggumataotao@triton.uog.edu

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UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM

# RFP Bid No. B21-17 Purchasing HVAC Units for UOG

Final Audit Report

2021-09-21

Created:

2021-09-20

By:

Christine Mabayag (ckamm@triton.uog.edu)

Status:

Signed

Transaction ID:

CBJCHBCAABAAzUx-klK9Deq03XlQUjZkxKXFD19oThSg

## "RFP Bid No. B21-17 Purchasing HVAC Units for UOG" History

- Document created by Christine Mabayag (ckamm@triton.uog.edu) 2021-09-20 10:28:42 PM GMT- IP address: 168.123.224,54
- Document emailed to Mike Naholowaa (naholomw@bankofguam.com) for signature 2021-09-20 10:33:08 PM GMT
- Email viewed by Mike Naholowaa (naholomw@bankofguam.com) 2021-09-21 0:53:39 AM GMT- IP address: 64.86.75.253
- Document e-signed by Mike Naholowaa (naholomw@bankofguam.com)

  Signature Date: 2021-09-21 0:57:12 AM GMT Time Source: server- IP address: 64.86.75.253
- Document emailed to Liza Provido (ptjarchitects@yahoo.com) for signature 2021-09-21 0:57:15 AM GMT
- Email viewed by Liza Provido (ptjarchitects@yahoo.com) 2021-09-21 1:25:07 AM GMT- IP address: 69.147.90.190
- Document e-signed by Liza Provido (ptjarchitects@yahoo.com)

  Signature Date: 2021-09-21 1:34:09 AM GMT Time Source: server- IP address: 114.142.234.197
- Agreement completed.
   2021-09-21 1:34:09 AM GMT



# Submission by Vendors



## **ADMINISTRATION & FINANCE**Consolidated Procurement Office

#### **AMENDMENT 6**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: December 3, 2021

## "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 3 as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator



Consolidated Procurement Office

#### **AMENDMENT 5**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 24, 2021

## "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Deadline for submission should read as follows: Monday, December 06, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Émily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: \_\_\_\_Tony's Workshop

11/30/21

Print Name/Signature/date



Consolidated Procurement Office

#### **AMENDMENT 4**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 22, 2021

## "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 2 as set forth in the attached.

All other terms and conditions remain the same.

Émily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: \_\_\_Tony's Workshop

Michael Ecalnea 11/30/21

Print Name/Signature/date

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913

The University of Guam is a U.S. Land Grant Institution accredited by the Western Association of Schools and Colleges Senior College and University Commission and is an equal opportunity provider and employer.



Consolidated Procurement Office

#### **AMENDMENT 3**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 19, 2021

## "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 Question & Answer Sheet 1 as set forth in the attached.
- 1.2 REPLACE Exhibit B "Scope of Work & Bid Price Form" with corrected forms as set forth in the attached.
- 1.3 Copy of Pre-bid Conference Sign-In sheet as set forth in the attached.
- 1.4 Deadline for submission should read as follows: Monday, November 29, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company:

Tony's Workshop

Michael Ecalnea

11/30/21

Print Name/Signature/date

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu
Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913

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Senior College and University Commission and is an equal opportunity provider and employer.



Consolidated Procurement Office

#### **AMENDMENT 2**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

## **PURCHASING HVAC EQUIPMENT**

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 **REPLACE** "Cover Page" with corrected form as set forth in the attached.
- 1.2 ADD: after Cover Page, p.2 "Bidders Registry" with corrected form as set forth in the attached.
- 1.3 REPLACE "Table of Contents" with corrected form as set forth in the attached.
- 1.4 REPLACE "Instructions to Bidders" with corrected forms as set forth in the attached.
- 1.5 ADD: after ATTACHMENT I, "Register of Wage Determinations Under The Service Contract Act"
- 1.6 REPLACE Exhibit B "Bid Price Form" with corrected forms as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao

Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: Tony's Workshop

Michael Ecalnea

11/30/21

Print Name/Signature/date



Consolidated Procurement Office

#### **AMENDMENT 1**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

## **PURCHASING OF HVAC EQUIPMENT**

This is to notify all prospective offerors of the following amendment:

1.1 PRE-BID Conference and Site visit is scheduled for Wednesday, November 3, 2021 at 10:00am. Meet-up will be at Facilities Maintenance Services, 1st Floor Bay. Please contact 735-2377 for directions.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: \_\_\_\_\_ Tony's Workshop

\_\_\_\_\_ Michael Ecalnea \_\_\_\_\_ 11/30/21

Print Name/Signature/date

Deliv	ery: <u>24</u> weeks aft	er receipt of	purchase	order	<u> </u>	
Gran	d Total		<del></del>			\$ 584,926.51
	HSS BUILDING HSS BUILDING	2	50 30	277 / 460 277 / 460	2 EA. – 25 2 EA. – 15	\$ 110,134.64 \$ 36,503.19
	BUILDING FIRST FLOOI LECTURE HALL AUDITO		50 20	277 / 460 277 / 460	2 EA 25 2 EA 10	\$ 55,372.32 \$ 24,262.45

## SIGNATURE OF BIDDER DATE

#### **OPTIONS**

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to exercise any or part of the options requested. Insert any additional options recommended.

#### **Table 2.0 Options**

No.	Item Description	Price
1	Services for Maintenance and upkeep. Excluded Major Repair	\$ 26,000.00 (Quarterly PMI)
2	Services for disposal.	\$ 54,148.63
3	Replacement/trade in program	\$ 196,766.42 (Install/Trade in Only)

#### OTHER NOTES:

- 1. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
- 2. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

NOTE: Name and title of author of specifications:

University of Guam

Glenn Leon Guerrero, Director, Facilities Management & Services, Email: glennlg@triton.uog.edu Emily Gumataotao, Supply Management Administrator, Email: eggumataotao@triton.uog.edu

#### **EXHIBIT B**

#### **UOG BID NO.B21-17**

## PURCHASING OF HVAC EQUIPMENT OF THE UNIVERSITY OF GUAM

#### Scope of Work

#### 1. Scope of the Work

This bid is to select and award a contract for the purchasing of multiple Air Conditioning units for the University of Guam.

#### 2. Bid Submittals

- a) Bid prices shall be submitted on Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional cost not stated in this bid but are required to complete the delivery must be included in the bidder's price.
- b) Bidder shall submit an electronic copy to the Share folder that UOG procurement office provides.

Contractor is required to submit prices for Table 1.0.

Bid award to be based on the required items in Table 1.0 and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package, BID NO. B21-17.

Table 1.0 Bid Price Form

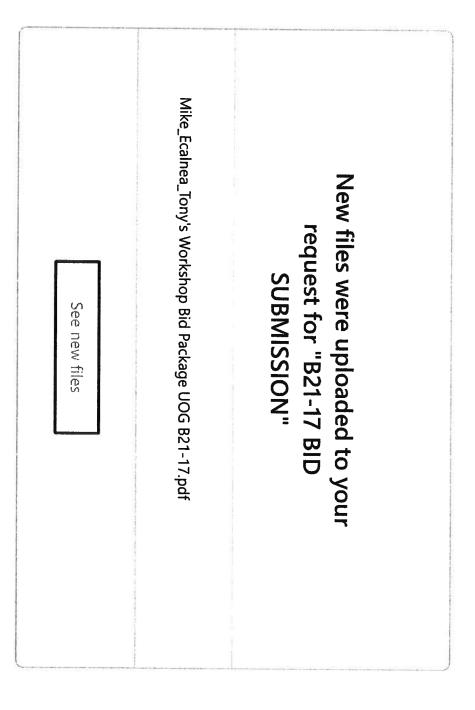
No.	ITEM D	ESCRIPTIO	N		BID Price
1	LOCATION UNI	T TONS	VOLTAGE	TVX	
	RFK BUILDING SECOND FLOOR	1 50	208 / 230	2 EA 25	\$ 55,372.32
	RFK BUILDING FIRST FLOOR 1 20RFK BUILDING FIRST FLOOR	40	208 / 230	2 EA	\$ 52,856.01
	MAIN ENTRANCE 1 7.5RFK BUILDING FIRST FLOOR	15	208 / 230	2 EA	\$ 17,711.51
	AV ROOM 1	15	208 / 230	2 EA	\$ 17,711.51
	7.5RFK BUILDING FIRST FLOOR OFFICES 1	20	208/230	2 EA 10	\$ 24,262.45
	PIP (GLE) SECOND FLOOR 1 10SCIENCE BUILDING FIRST	20	208 / 230	2 EA	\$ 24,262.45
	FLOOR 1 20SCIENCE BUILDING	40	208/230	2 EA	\$ 52,856.01
	SECOND FLOOR 1 20SCIENCE BUILDING	40	208/230	2 EA	\$ 52,856.01
	THIRD FLOOR 1 10EGLISH COMMUNICATION	20	208 / 230	2 EA	\$ 24,262.45
	BUILDING CLASSROO 1 15COMPUTER CENTER OIT	30	208/230	2 EA	\$ 36,503.19

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parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award the contractor prepares a written report listing in order the proposed classification title(s) a Federal grade equivalency (FGE) for each proposed classification(s) job description(s) and rationale for proposed wage rate(s) including information regarding the agreement or disagreement of the authorized representative of the employees involved or where there is no authorized representative the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action together with the agency's recommendations and pertinent information including the position of the contractor and the employees to the U.S. Department of Labor Wage and Hour Division for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt the Wage and Hour Division approves modifies or disapproves the action via transmittal to the agency contracting officer or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See  $29 \ \text{CFR } 4.6(b)(2)(iii)$ ).

Information required by the Regulations must be submitted on SF-1444 or bond paper.

When preparing a conformance request the ""Service Contract Act Directory of Occupations"" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember it is not the job title but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split combine or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."

### \*\* UNIFORM ALLOWANCE \*\*

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract by the employer by the state or local law etc.) the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition where uniform cleaning and maintenance is made the responsibility of the employee all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount or the furnishing of contrary affirmative proof as to the actual cost) reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However in those instances where the uniforms furnished are made of ""wash and wear"" materials may be routinely washed and dried with other personal garments and do not require any special treatment such as dry cleaning daily washing or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract by the contractor by law or by the nature of the work there is no requirement that employees be reimbursed for uniform maintenance costs.

### \*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\*

The duties of employees under job titles listed are those described in the ""Service Contract Act Directory of Occupations"" Fifth Edition (Revision 1) dated September 2015 unless otherwise indicated.

\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE Standard Form 1444 (SF-1444) \*\*

### Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e. the work to be performed is not performed by any classification listed in the wage determination) be classified by the contractor so as to provide a reasonable relationship (i.e. appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification wage rate and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested

determination.

Additionally because job titles vary widely and change quickly in the computer industry job titles are not determinative of the application of the computer professional exemption. Therefore the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- The application of systems analysis techniques and procedures including consulting with users to determine hardware software or system functional specifications;
- (2) The design development documentation analysis creation testing or modification of computer systems or programs including prototypes based on and related to user or system design specifications;
- (3) The design documentation testing creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties the performance of which requires the same level of skills. (29 C.F.R. 541.400).
- 2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

### \*\* HAZARDOUS PAY DIFFERENTIAL \*\*

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance explosives and incendiary materials. This includes work such as screening blending dying mixing and pressing of sensitive ordnance explosives and pyrotechnic compositions such as lead azide black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization modification renovation demolition and maintenance operations on sensitive ordnance explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with or in close proximity to ordnance (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands face or arms of the employee engaged in the operation irritation of the skin minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving unloading storage and hauling of ordnance explosive and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance explosives and incendiary material differential pay.

under the EO is available at www.dol.gov/whd/govcontracts.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.60 per hour up to 40 hours per week or \$184.00 per week or \$797.33 per month

HEALTH & WELFARE EO 13706: \$4.23 per hour up to 40 hours per week or \$169.20 per week or \$733.20 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706 Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; and 4 weeks after 3 years. Length of service includes the whole span of continuous service with the present contractor or successor wherever employed and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day Martin Luther King Jr.'s Birthday Washington's Birthday Memorial Day Independence Day Labor Day Columbus Day Veterans' Day Thanksgiving Day and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b) this wage determination does not apply to any employee who individually qualifies as a bona fide executive administrative or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals (29 C.F.R. 541. 400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. example if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage

20102 Uneverladed Order or (1910) = 1.1.1	
30493 - Unexploded Ordnance (UXO) Technician III	37.13
30494 - Unexploded (UXO) Safety Escort 30495 - Unexploded (UXO) Sweep Personnel	25.60
30501 - Weather Forecaster I	25.60
30502 - Weather Forecaster II	25.57
30C30 Usastina of a 14 to 1	31.09
Surface Programs  Surface Programs	20.77
20621 Monthey Observer C	
31000 - Transportation/Mobile Equipment Operation Occupations	23.08
31010 - Airplane Pilot	
31020 - Bus Aide	30.98
31030 - Bus Driver	8.15
31043 - Driver Courier	10.66
31260 - Parking and Lot Attendant	9.69
31290 - Shuttle Bus Driver	9.91
31310 - Taxi Driver	11.65
31361 - Truckdriver Light	11.41
31362 - Truckdriver Medium	10.59
31363 - Truckdriver Heavy	11.61
31364 - Truckdriver Tractor-Trailer	14.64
99000 - Miscellaneous Occupations	14.64
99020 - Cabin Safety Specialist	
99030 - Cashier	15.10
99050 - Desk Clerk	9.63
99095 - Embalmer	9.70
99130 - Flight Follower	25.60
99251 - Laboratory Animal Caretaker I	25.60
99252 - Laboratory Animal Caretaker II	23.38
99260 - Marketing Analyst	25.54
99310 - Mortician	21.54
99410 - Pest Controller	25.60
99510 - Photofinishing Worker	14.61
99710 - Recycling Laborer	13.45
99711 - Recycling Specialist	17.32
99730 - Refuse Collector	23.38
99810 - Sales Clerk	16.40
99820 - School Crossing Guard	9.87
99830 - Survey Party Chief	17.27
99831 - Surveying Aide	23.01
99832 - Surveying Technician	13.08
99840 - Vending Machine Attendant	17.00
99841 - Vending Machine Repairer	23.38
99842 - Vending Machine Repairer Helper	29.78
6sanine neputi et neitpet	23.38

Note: Executive Order (EO) 13706 Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2017. If this contract is covered by the EO the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness injury or other health-related needs including preventive care; to assist a family member (or person who is like family to the employee) who is ill injured or has other health-related needs including preventive care; or for reasons resulting from or to assist a family member (or person who is like family to the employee) who is the victim of domestic violence sexual assault or stalking. Additional information on contractor requirements and worker protections

27008	- Corrections Officer	12.05
27010	- Court Security Officer	12.05
	- Detection Dog Handler	10.90
	- Detention Officer	12.05
	- Firefighter	
	- Guard I	12.05
	- Guard II	9.48
		10.90
	- Police Officer I	12.05
	- Police Officer II	13.40
	Recreation Occupations	
	- Carnival Equipment Operator	13.24
	- Carnival Equipment Repairer	14.46
28043	- Carnival Worker	9.78
28210	- Gate Attendant/Gate Tender	13.18
28310	- Lifeguard	11.01
	- Park Attendant (Aide)	14.74
	- Recreation Aide/Health Facility Attendant	11.84
	- Recreation Specialist	18.26
	- Sports Official	
	- Swimming Pool Operator	11.74
20030	- Swilling root operator	17.71
29000 -	Stevedoring/Longshoremen Occupational Services	
	- Blocker And Bracer	25.98
	- Hatch Tender	25.98
	- Line Handler	25.98
29041	- Stevedore I	24.18
29042	- Stevedore II	27.79
30000 -	Technical Occupations	2,7,2
30010	- Air Traffic Control Specialist Center (HFO) (see 2)	40.29
30011	- Air Traffic Control Specialist Station (HFO) (see 2)	27.78
30012	- Air Traffic Control Specialist Terminal (HFO) (see 2)	
30022	- Archeological Technician I	30.59
		17.49
	- Archeological Technician II	19.56
	- Archeological Technician III	24.21
	- Cartographic Technician	23.18
	- Civil Engineering Technician	23.08
	- Cryogenic Technician I	25.57
	- Cryogenic Technician II	28.24
30061	- Drafter/CAD Operator I	17.49
30062	- Drafter/CAD Operator II	19.56
30063	- Drafter/CAD Operator III	20.77
	- Drafter/CAD Operator IV	25.57
	- Engineering Technician I	14.84
	- Engineering Technician II	
	- Engineering Technician III	16.66
		18.64
	- Engineering Technician IV	23.08
	- Engineering Technician V	28.24
	- Engineering Technician VI	34.16
	- Environmental Technician	23.08
	- Evidence Control Specialist	23.08
30210	- Laboratory Technician	20.77
30221	- Latent Fingerprint Technician I	25.57
30222	- Latent Fingerprint Technician II	28.24
	- Mathematical Technician	23.34
	- Paralegal/Legal Assistant I	19.54
	- Paralegal/Legal Assistant II	24.21
	- Paralegal/Legal Assistant III	
	- Paralegal/Legal Assistant IV	29.61
		35.83
	- Petroleum Supply Specialist	28.24
	- Photo-Optics Technician	21.93
	- Radiation Control Technician	28.24
	- Technical Writer I	23.08
	- Technical Writer II	28.24
	- Technical Writer III	34.16
30491	- Unexploded Ordnance (UXO) Technician I	25.60
30492	- Unexploded Ordnance (UXO) Technician II	30.98

23181 - Electronics Technician Maintenance I	18.20
23182 - Electronics Technician Maintenance II	19.46
23183 - Electronics Technician Maintenance III	20.72
23260 - Fabric Worker	16.94
23290 - Fire Alarm System Mechanic	16.77
23310 - Fire Extinguisher Repairer	15.61
23311 - Fuel Distribution System Mechanic	
23312 - Fuel Distribution System Operator	20.72
23370 - General Maintenance Worker	15.61
	12.01
23380 - Ground Support Equipment Mechanic	23.84
23381 - Ground Support Equipment Servicer	19.47
23382 - Ground Support Equipment Worker	21.03
23391 - Gunsmith I	15.61
23392 - Gunsmith II	18.20
23393 - Gunsmith III	20.72
23410 - Heating Ventilation And Air-Conditioning	17.50
Mechanic	
23411 - Heating Ventilation And Air Contidioning	18.61
Mechanic (Research Facility)	10.01
23430 - Heavy Equipment Mechanic	40.0=
	19.27
23440 - Heavy Equipment Operator	17.76
23460 - Instrument Mechanic	20.72
23465 - Laboratory/Shelter Mechanic	19.46
23470 - Laborer	11.37
23510 - Locksmith	19.46
23530 - Machinery Maintenance Mechanic	23.13
23550 - Machinist Maintenance	20.72
23580 - Maintenance Trades Helper	10.67
23591 - Metrology Technician I	
23592 - Metrology Technician II	20.72
23593 - Metrology Technician III	22.03
	23.33
23640 - Millwright	20.72
23710 - Office Appliance Repairer	19.46
23760 - Painter Maintenance	14.08
23790 - Pipefitter Maintenance	18.39
23810 - Plumber Maintenance	17.27
23820 - Pneudraulic Systems Mechanic	20.72
23850 - Rigger	20.72
23870 - Scale Mechanic	18.20
23890 - Sheet-Metal Worker Maintenance	
23910 - Small Engine Mechanic	17.35
23931 - Telecommunications Mechanic I	18.20
23932 - Telecommunications Mechanic II	19.76
	21.01
23950 - Telephone Lineman	18.24
23960 - Welder Combination Maintenance	18.31
23965 - Well Driller	21.13
23970 - Woodcraft Worker	20.71
23980 - Woodworker	15.61
24000 - Personal Needs Occupations	
24550 - Case Manager	15.01
24570 - Child Care Attendant	10.09
24580 - Child Care Center Clerk	13.25
24610 - Chore Aide	
24620 - Family Readiness And Support Services	12.78
Coordinator	15.01
24630 - Homemaker	16.12
25000 - Plant And System Operations Occupations	
25010 - Boiler Tender	20.72
25040 - Sewage Plant Operator	21.59
25070 - Stationary Engineer	20.72
25190 - Ventilation Equipment Tender	14.29
25210 - Water Treatment Plant Operator	21.59
27000 - Protective Service Occupations	21.39
27004 - Alarm Monitor	40.00
27007 - Baggage Inspector	10.90
Tion, - naggage Tubhectol.	9.48

444	
14170 - System Support Specialist	21.24
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	24.23
15020 - Aircrew Training Devices Instructor (Rated)	29.32
15030 - Air Crew Training Devices Instructor (Pilot)	34.91
15050 - Computer Based Training Specialist / Instructor	24.23
15060 - Educational Technologist	27.61
15070 - Flight Instructor (Pilot)	34.91
15080 - Graphic Artist	20.47
15085 - Maintenance Test Pilot Fixed Jet/Prop	34.91
15086 - Maintenance Test Pilot Rotary Wing	34.91
15088 - Non-Maintenance Test/Co-Pilot	34.91
15090 - Technical Instructor	17.67
15095 - Technical Instructor/Course Developer	23.78
15110 - Test Proctor	15.70
15120 - Tutor	15.70
16000 - Laundry Dry-Cleaning Pressing And Related Occupations	
16010 - Assembler	10.12
16030 - Counter Attendant	10.12
16040 - Dry Cleaner	11.56
16070 - Finisher Flatwork Machine	10.12
16090 - Presser Hand	10.12
16110 - Presser Machine Drycleaning	10.12
16130 - Presser Machine Shirts	10.12
16160 - Presser Machine Wearing Apparel Laundry	10.12
16190 - Sewing Machine Operator	12.04
16220 - Tailor	12.52
16250 - Washer Machine	10.60
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	19.46
19040 - Tool And Die Maker	24.46
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	13.96
21030 - Material Coordinator	21.78
21040 - Material Expediter	21.78
21050 - Material Handling Laborer	11.37
21071 - Order Filler	9.76
21080 - Production Line Worker (Food Processing)	13.96
21110 - Shipping Packer	17.12
21130 - Shipping/Receiving Clerk	17.12
21140 - Store Worker I	15.22
21150 - Stock Clerk	21.40
21210 - Tools And Parts Attendant	13.96
21410 - Warehouse Specialist	13.96
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	25.04
23019 - Aircraft Logs and Records Technician	19.47
23021 - Aircraft Mechanic I 23022 - Aircraft Mechanic II	23.84
23023 - Aircraft Mechanic III	25.04
	26.30
23040 - Aircraft Mechanic Helper 23050 - Aircraft Painter	16.58
23060 - Aircraft Painter 23060 - Aircraft Servicer	22.39
	19.47
23070 - Aircraft Survival Flight Equipment Technician 23080 - Aircraft Worker	22.39
23000 - Aircraft Worker  23091 - Aircrew Life Support Equipment (ALSE) Mechanic	21.03
I	21.03
23092 - Aircrew Life Support Equipment (ALSE) Mechanic	23.84
II	23.04
23110 - Appliance Mechanic	19.46
23120 - Bicycle Repairer	15.61
23125 - Cable Splicer	19.59
23130 - Carpenter Maintenance	16.07
23140 - Carpet Layer	18.20
23160 - Electrician Maintenance	18.05
	10.03

12035 - Electroneurodiagnostic Technologist	25.99
12040 - Emergency Medical Technician	18.23
12071 - Licensed Practical Nurse I	16.30
12072 - Licensed Practical Nurse II	18.23
12073 - Licensed Practical Nurse III	20.32
12100 - Medical Assistant	12.26
12130 - Medical Laboratory Technician	18.82
12160 - Medical Record Clerk	13.61
12190 - Medical Record Technician	17.77
12195 - Medical Transcriptionist	
12210 - Nuclear Medicine Technologist	16.30
12221 - Nursing Assistant I	40.06
12222 - Nursing Assistant II	11.34
12223 - Nursing Assistant III	12.75
12224 - Nursing Assistant IV	13.91
12224 - Nul Still ASSIStatit IV	15.61
12235 - Optical Dispenser	18.23
12236 - Optical Technician	16.30
12250 - Pharmacy Technician	15.49
12280 - Phlebotomist	16.30
12305 - Radiologic Technologist	25.33
12311 - Registered Nurse I	23.18
12312 - Registered Nurse II	28.36
12313 - Registered Nurse II Specialist	28.36
12314 - Registered Nurse III	34.32
12315 - Registered Nurse III Anesthetist	
12316 - Registered Nurse IV	34.32
12317 - Scheduler (Drug and Alcohol Testing)	41.13
12320 - Substance Abuse Treatment Counselor	22.58
13000 - Information And Arts Occupations	22.58
13011 - Exhibits Specialist I	
13012 - Exhibits Specialist II	21.20
13013 - Exhibits Specialist III	26.27
13041 - Illustrator I	32.13
	21.20
13042 - Illustrator II	26.27
13043 - Illustrator III	32.13
13047 - Librarian	29.09
13050 - Library Aide/Clerk	16.88
13054 - Library Information Technology Systems	26.27
Administrator	
13058 - Library Technician	16.64
13061 - Media Specialist I	18.96
13062 - Media Specialist II	21.20
13063 - Media Specialist III	23.63
13071 - Photographer I	18.96
13072 - Photographer II	
13073 - Photographer III	21.20
13074 - Photographer IV	26.27
13075 - Photographer V	32.13
13090 - Technical Order Library Clerk	38.88
13110 - Video Teleconference Technician	21.20
14000 - Information Technology Occupations	18.96
14041 - Computer Operator I	
14042 - Computer Operator II	15.71
14042 - Computer Operator II	17.22
14043 - Computer Operator III	19.19
14044 - Computer Operator IV	21.33
14045 - Computer Operator V	23.62
14071 - Computer Programmer I (see 1)	15.73
14072 - Computer Programmer II (see 1)	19.50
14073 - Computer Programmer III (see 1)	23.84
14074 - Computer Programmer IV (see 1)	
14101 - Computer Systems Analyst I (see 1)	24.23
14102 - Computer Systems Analyst II (see 1)	27.43
14103 - Computer Systems Analyst III (see 1)	
14150 - Peripheral Equipment Operator	16 71
14160 - Personal Computer Support Technician	15.71
·	21.33

*	- Scheduler Maintenance	15.55
	- Secretary I	15.55
	- Secretary II	17.40
01313	- Secretary III	19.39
	- Service Order Dispatcher	15.40
	- Supply Technician	21.43
	- Survey Worker	16.96
	- Switchboard Operator/Receptionist	10.36
	- Travel Clerk I	13.01
01532	- Travel Clerk II	14.12
	- Travel Clerk III	15.09
01611	- Word Processor I	14.53
01612	- Word Processor II	16.31
01613	- Word Processor III	18.26
05000 -	Automotive Service Occupations	
05005	- Automobile Body Repairer Fiberglass	15.46
	- Automotive Electrician	14.52
05040	- Automotive Glass Installer	13.58
	- Automotive Worker	13.58
05110	- Mobile Equipment Servicer	11.65
	- Motor Equipment Metal Mechanic	15.46
	- Motor Equipment Metal Worker	13.58
	- Motor Vehicle Mechanic	15.46
	- Motor Vehicle Mechanic Helper	10.66
	- Motor Vehicle Upholstery Worker	12.64
	- Motor Vehicle Wrecker	13.58
	- Painter Automotive	
	- Radiator Repair Specialist	14.52
	- Tire Repairer	13.58
	- Transmission Repair Specialist	12.67
	Food Preparation And Service Occupations	15.46
	- Baker	40 47
	- Cook I	10.47
	- Cook I	13.26
	- COOK II - Dishwasher	15.46
		9.31
	- Food Service Worker	9.45
	- Meat Cutter	12.13
	- Waiter/Waitress	9.27
09000 -	Furniture Maintenance And Repair Occupations	
	- Electrostatic Spray Painter	18.04
	- Furniture Handler	10.95
	- Furniture Refinisher	18.04
	- Furniture Refinisher Helper	13.27
	- Furniture Repairer Minor	15.70
	- Upholsterer	18.04
11000 -	General Services And Support Occupations	
	- Cleaner Vehicles	9.35
11060	- Elevator Operator	9.54
	- Gardener	13.00
11122	- Housekeeping Aide	9.54
11150	- Janitor	9.54
11210	- Laborer Grounds Maintenance	9.82
11240	- Maid or Houseman	9.32
11260	- Pruner	8.79
11270	- Tractor Operator	11.90
	- Trail Maintenance Worker	9.82
	- Window Cleaner	10.66
	Health Occupations	_0.00
	- Ambulance Driver	18.23
	- Breath Alcohol Technician	18.23
	- Certified Occupational Therapist Assistant	25.01
	- Certified Physical Therapist Assistant	25.01
	- Dental Assistant	16.32
	- Dental Hygienist	36.12
	- EKG Technician	25.99
12030	End (Commetan)	43.77

"REGISTER OF WAGE DETERMINATIONS UNDER

U.S. DEPARTMENT OF LABOR

THE SERVICE CONTRACT ACT

By direction of the Secretary of Labor

EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON D.C. 20210

Daniel W. Simms Director

Division of

Wage Determination No.: 2015-5693

Revision No.: 13

Wage Determinations | Date Of Last Revision: 08/04/2021

Note: Under Executive Order (EO) 13658 an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2015. If this contract is covered by the EO the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination if it is higher) for all hours spent performing on the contract in calendar year 2021. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

States: Guam Northern Marianas Wake Island

Area: Guam Statewide

Northern Marianas Statewide

Wake Island Statewide

**Fringe Benefits Required Follow the Occupational Listi	ow the Occupational Listing**	Follow	Required	Benefits	**Fringe
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OCCUPATION CODE - TITLE	FOOTNOTE RATE
01000 - Administrative Support And Clerical Occupations	
01011 - Accounting Clerk I	12 57
01012 - Accounting Clerk II	13.57
01013 - Accounting Clerk III	15.23
01020 - Administrative Assistant	17.04
01035 - Court Reporter	21.43
01041 - Customer Service Representative I	17.40
01042 - Customer Service Representative II	11.51
01043 - Customer Service Representative III	12.94
01051 - Data Entry Operator I	14.12
01052 - Data Entry Operator II	12.15
01060 - Dispatcher Motor Vehicle	13.25
01070 - Document Preparation Clerk	17.39
01090 - Duplicating Machine Operator	13.85
01111 - General Clerk I	13.85
01112 - General Clerk I	10.35
01112 - General Clerk II	11.29
	12.68
01120 - Housing Referral Assistant	19.39
01141 - Messenger Courier 01191 - Order Clerk T	11.37
	12.57
01192 - Order Clerk II	13.71
01261 - Personnel Assistant (Employment) I	15.95
01262 - Personnel Assistant (Employment) II	17.85
01263 - Personnel Assistant (Employment) III	19.89
01270 - Production Control Clerk	21.78
01290 - Rental Clerk	11.10

# ATTACHMENT I DECLARATION re COMPLIANCE WITH U.S. DOL WAGE DETERMINATIONS

Procurement No.: UOG BID B21-17

Name of Offeror Company: Antonio C. Mendoza III DBA Tony's Workshop

	I, Antonio C. Mendoza III	hereby certify under penalty of perjury:
(1)	That I am the offeror offeror, an officer of the offeror) making the bid or	_(please select one: the offeror, a partner of the proposal in the foregoing identified procurement;
(2)	That I have read and understand the provisions of	5 GCA § 5801and 5802 which read:
	§ 5801. Wage Determination Established.	

In such cases where the government of Guam enters into contractual arrangements with a sole proprietorship, a partnership or a corporation ("contractor") for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose, in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.

The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, which shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause, then at the time of renewal adjustments, there shall be made stipulations contained in the contract for applying the Wage Determination, as required by this Article, so the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply. § 5802. Benefits.

In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimum of ten (10) paid holidays per annum per employees.

- (3) That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the procurement referenced herein;
- (4) That I have attached the most recent wage determination applicable to Guam issued by the U.S. Department of Labor. (INSTRUCTIONS Please attach most updated version to bid package) (AG Procurement Form 006 (Feb. 16, 2010)

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# ATTACHMENT J AFFIDAVIT re CONTINGENT FEES

CITY OF Tamaning	)	
/	) ss.	
ISLAND OF GUAM	)	
Antonio C. Mend	oza III	(state name of affiant signing below), being first duly sworn, deposes
and says that:		

- 1. The name of the offering company or individual is (state name of company) Antonio C. Mendoza III DBA Tony's Workshop
- 2. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained any person or agency on a percentage, commission, or other contingent arrangement to secure this contract. This statement is made pursuant to UOG Procurement Manual Section 11.8.2
- 3. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained a person to solicit or secure a contract with the government of Guam upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. This statement is made pursuant to UOG Procurement Manual Section 11.8.1.
- 4. I make these statements on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

### RAMON J.D. QUINENE

**NOTARY PUBLIC** 

In and for Guam, U.S.A. My Commission Expires: JUNE 29, 2025 1779 Army Dr. Ste. 105 Tamuning, Guam 96913 Antonio C. Mendoza III

Signature of one of the following:

Offeror, if the offeror is an individual; Partner, if the offeror is a partnership; Officer, if the offeror is a corporation

Subscribed and sworn to before me

This Gh day of Decomber, 202

(AG Procurement Form 007 (Jul. 15, 2010)

. 225



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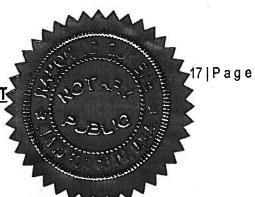
UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

# ATTACHMENT H AFFIDAVIT RE ETHICAL STANDARDS

<u>AFFIDAVIT RE ETHICAL STANDARDS</u>	
CITY OF	
*	
Antonio C. Mendoza III (state name of affiant signing below) deposes and says that:	, being first duly sworn,
The affiant is	To the best of affiant's or employees of offeror e ethical standards set or she, nor any officer, by government of Guam These statements are individual; rtnership;
NOTAR In and for	D. QUINENE Y PUBLIC Guam, U.S.A. xpires: JUNE 29, 2025 5 Tamuning, Guam 96913
My commission expires The 29, 225.	

(AG Procurement Form 005 (Jul. 12, 2010)

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT



# ATTACHMENT G <u>AFFIDAVIT re GRATUITIES, KICKBACKS AND FAVORS</u>

city of <u>Tamuning</u> )	
) ss. ISLAND OF GUAM )	
Antonio C. Mendoza III	(state name of affiant signing below), being first duly sworn,
deposes and says that:	
Antonio C. Mendoza III (Tony's Work	firm or individual is (state name of offeror company)  (shop) = Affiant is the offeror (state one a partner of the offeror, and officer of the offeror) making the
foregoing identified bid or proposed.  To the best of affiant's known representatives, agents subcornagainst gratuities, kickbacks at Further, affiant promises, on known kickbacks and favors as set for a finant's known representatives, agents, subcommunity and subcommunity or offer of erectal and the statement on behalf	osal. owledge, neither affiant, nor any of the offeror's officers, intractors, or employees have violated, are violating the prohibition and favors set forth in UOG Procurement Manual Section 11.7 behalf of offeror, not to violate the prohibition against gratuities, orth in UOG Procurement Manual Section 11.7. howledge, neither affiant, nor any of the offeror's officers, contractors, or employees have offered, given or agreed to give, imployee or former government employee, any payment, gift, imployment in connection with the offeror's proposal. If of myself as a representative of the offeror, and on behalf of the ves, agents, subcontractors, and employees.
	Antonio C. Mendozá III
RAMON J.D. QUINENE  NOTARY PUBLIC In and for Guam, U.S.A. My Commission Expires: JUNE 29, 2025 1779 Army Dr. Ste. 105 Tamuniag, Guam 96913	Signature of one of the following: Offeror, if the offeror is an individual; Partner, if the offeror is a partnership; Officer, if the offeror is a corporation
Subscribed and sworn to before me  This	

16 | Page

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

My commission expires June 29, 2006 (AG Procurement Form 004 (Jul. 12, 2010)

NOTARY PUBLIC

# ATTACHMENT F AFFIDAVIT re NON-COLLUSION

CITY OF _	'lamuning )	<b>35.</b>			
ISLAND OF		13.			
	Antonio C. Mendoza I	.11	_(state name of aff	iant singing below)	, being first duly
sworn depo	ses and says that:				
1.	The name of the Antonio C. Mendo	ne offering compan oza III (Tony's Worksh	y or individual nop)	is (state name	of company)
2.	offeror has not colli- offeror or person, to not in any manner, or or conference, with any overhead, profi- secure any advanta contract. All statem of the undersigned.	e solicitation identified uded, conspired, conspired, conspired, conspired, conspired, conspired, conspired in a sham proposed in a sham proposed in a sham person to fix the part or cost element of sage against the governments in this affidavit are this statement is many conspired in the statement in the statement is many conspired in the statement in the	nived or agreed, disal or to refrain from bught by an agreem proposal price of official proposal price, of ment of Guam or any and in the proposal and burstant to 2 Grant or 2	rectly or indirectly, a making an offer. ent or collusion, or eror or of any other or of that of any other y person interested be true to the best of AR Division 4 § 31.5	The offeror has communication offeror, or to fix ner offeror, or to lin the proposed of the knowledge 26(b).
3.	I make this stateme offeror's officers, re	ent on behalf of myself epresentatives, agents	as a representative, subcoritractors, and the subcoritractors, and tonio C. Mendoza II	d employees.	on behalf of the
In:	OTARY PUBLIC and for Guam, U.S.A. ission Expires: JUNE 29, or. Ste. 105 Tamuning, Guam 9	2025	Partner, if the	following: offeror is an individu offeror is a partners offeror is a corporat	ship;
This 6	day of December	€20 <u>2</u> l			

15 | Page

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

# ATTACHMENT E MAJOR SHAREHOLDER DISCLOSURE AFFIDAVIT

	1				
CITY OF	= Tanuthag )				
SI AND	) ss. ) OF GUAM )				
				1 1 1	af the offerer
A.	I, the undersigned, being first duly and that (please check only one)	y sworn depose and :	I say that I am an aut	horized representative	е от тпе опегог
(×)	The offeror is an individual or sole proprietor and owns the entire (100%) interest in the offering business.				
()	) The offeror is a corporation, partnership, joint venture, or association known as (please state name of offeror				
	company), and the persons, co	mnonine nartners	(please state i	name of offeror o have held more tha	an 10% of the
shares proposa	or interest in the offering busines al are as follows (if none, please so	ss during the 365 (	days immediately pre	eceding the submission	on date of the
	NAME_	ADDRESS		% of Interest	:
В.	Further, I say that the persons to compensation for procuring or a	who have received	or are entitled to rec	eive a commission, gi	ratuity or other which affidavit
	is submitted are as follows (if no	ne, please so state	):		
	NAME	<u>ADDRESS</u>	1	<u>Cor</u>	mpensation
C.	If the ownership of the offering an award is made or a contract 5 GCA § 5233 by delivering and	is entered into, then other affidavit to the	I/promise personally	to update the disclos	le and the time ure required by
RAI	MON J.D. QUINENE		Signature of one		
	NOTARY PUBLIC In and for Guam, U.S.A.		Offeror, if the offe	ror is an individual;	
My C	Commission Expires: JUNE 29, 2025 Army Dr. Ste. 105 Tamuning, Guam 96913			eror is a partnership; ror is a corporation	
17/9	Army Dr. Ste. 105 Tamoning, Guam 20210	_1	Onicer, it the one		A CONTRACTOR OF THE PARTY OF TH
Subsc	ribed and sworn to before me			7	and the second
	المالم ، الم				
This _	GTV day of December, 202			<b>5 1</b> 2	
	//180			く 第1	
NOTÁ	RY PUBLIC	0.00		5 %	Day 4 3

14 | Page

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

My commission expires Inc Inc., 205 (AG Procurement Form 002 (Rev. Nov 17, 2005) [제42호 서식]

공중인가 동방종합법무법인

(영문사서본인용지)

등부 2021 년 제 160 호

Registered No. 2021 - 160

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NOTARIAL CERTIFICATE

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위임장

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기재된

이 창 수 오 창 식

<u>0</u>

본 공중인의 면전에서 위 사서증서에 자기가 기명날인 한 것임을 자인하였다.

Chang Soo Lee Chang Sik Oh

personally appeared before me and admitted his(her) subscription to the attached

POWER OF ATTORNEY

2021년 1월 21일 이 사무소에서 위 인증한다. This is hereby attested on this 21st day of Jan.
2021 at this office.

BELONG TO SECUL CENTRAL DISTRICT PROSECUTORS' OFFICE

3F.187.Toegye-ro, Jung-gu, Seoul, Korea

DONG BANG LAW & NOTARY OFFICE INC.

서울중앙지방검찰청소속 공중인가 동방종합법무법인 서울특별시 중구 퇴계로 187, 3층 (필동1가, 국제빌딩)

공중담당

변호사

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-1 K

人り

Attorney at law(Rep.) Chai. Lee Sik

This office has been authorized by the Minister of Justice, the Republic of Korea, to act as Notary Public since Apr. 26. 1984.under Law No.5



DB Financial Center. 432. Teheran-ro. Gangnam-gu. Seoul. Korea. 06194 Global Operations Part / Fax: 82-505-181-1023 / Tel: 82-2-3011-5825 / www.idbins.com

## POWER OF ATTORNEY

### KNOW ALL MEN BY THESE PRESENTS:

That I. Chang Soo Lee, Executive Vice President of DB Insurance Co., Ltd., a corporation duly organized and existing under and by virtue of the laws of the Republic of Korea, having its principal office at the address of DB Financial Center, 432. Teheran-ro, Gangnam-Gu, Seoul, the Republic of Korea, does hereby nominate, constitute and appoint Yon Jo Choi, Branch Manager of the Company's Guam Branch at 233 Juliale Center, 424 West O'Brien Drive, Hagatna, Guam 96910, my true and lawful attorney-in-fact to make, execute, seal and deliver any and all bonds, undertakings, contracts and other writings of suretyship for the Company and in my behalf.

IN WITNESS WHEREOF, DB Insurance Co., Ltd. has caused these presents to be signed by me and <u>the Corporate Secretary</u>, and to be affixed of its corporate seal thereunto on this <u>1st day of January</u>. 2021.

DB INSURANCE CO., LTD.

Chang Soo Lee, Executive Vice President

C.S. Lie

Charsik Oh.

B21-1748

### 공중인가 동방종합법무법인

\* -%-Registered No. 2021 - 160 \* % \* × × × × × × × × × × X \* NOTARIAL CERTIFICATE \* × × \* × × × × \* \* × × × Ж × Ж × Ж × Ж × × × \* × Ж DONG BANG LAW & NOTARY OFFICE INC. 187, Toegye-ro, Jung-gu, Seoul, Korea \* × **※ ※** × × 

	[제42호 서식]	공중인가 동바	종합법무법인 (영문사서보이요기)
	등부 2021		Registered No. 2021 - 159
1	શ	증	NOTARIAL CERTIFICATE
NO.	위		
Contract of the Contract of th		위임장	
	기제된	"	Chang Sik Oh
	본 공중인의 자기가 기명날	오 창 식 은 면전에서 위 사서증서에 인 한 것임을 자인하였다.	personally appeared before me and admitted his(her) subscription to the attached
			POWER OF ATTORNEY
	"	년 1월 21일 · · 에서 위 인증한다.	This is hereby attested on this 21st day of Jan. 2021 at this office.
	서울특별시 중구 (필동	토계로 187, 3층 1가, 국제빌딩) 공중담당 면호사	Cital, Lee Sik
		the Republic of Apr. 26, 1984.u	Korea, to act as Notary Public since nder Law No.5

[제43호 서식]

공중인가 동방종합법무법인

(영문사서대리인용지)

등부 2021 년 제 159 호

Registered No. 2021 - 159

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증

NOTARIAL CERTIFICATE

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기재된

디비손해보험(주) 대표이사 김정남

의

대리인 **김태용** 은 본 공증인의 면전에서 위 본인이 기명날인 한 것임을 자인하였다.

Tae Yong Kim

attorney - in fact of

Jeong Nam Kim
President& CEO
DB insurance co.,Ltd

appeared

before me and admitted said principal's subscription to the attached

POWER OF ATTORNEY

2021년 1월 21일 이 사무소에서 위 인증한다. This is hereby attested on this 21st day of Jan.
2021 at this office.

서울지방검찰청소속 공중인가 동방종합법무법인

서울특별시 중구 퇴계로 187

BELONG TO SECUL CENTRAL DISTRICT PROSECUTORS' OFFICE

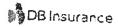
DONG BANG LAW & NOTARY OFFICE INC.

187. Toegye-ro, Jung-gu, Seoul, Korea

0

Attorney at law(Rep.) Chai. Lee Sil

This office has been authorized by the Minister of Justice, the Republic of Korea, to act as Notary Public since Apr. 26, 1984, under Law No. 5



D8 Financial Center 432. Teheran-rol Gangnam gu. Secul Korea, 06194 Global Operations Part / Fax: 82-505-131-1023 | Feb 82-2-3011-5825 / www.idbins.com

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That I, <u>Jeong Nam Kin</u>. President & <u>CEO</u> of DB Insurance Co., Ltd., a corporation duly organized and existing under and by virtue of the laws of the Republic of Korea, having its principal office at the address of DB Financial Center, 432. Teheran-ro, Gangnam-Gu, Seoul, the Republic of Korea, does hereby nominate, constitute and appoint <u>Fon Jo Choi, Branch Manager</u> of the Company's Guam Branch at 233 Julale Center, 424 West O'Brien Drive, Hagatna, Guam 96910, my true and lawful attorney-infact to make, execute, seal and deliver any and all bonds, undertakings, contracts and other writings of suretyship for the Company and in my behalf.

IN WITNESS WHEREOF, DB Insurance Co., Ltd. has caused these presents to be signed by me and <u>the Corporate Secretary</u>, and to be affixed of its corporate seal thereunto on this <u>Ist day of January</u>, <u>2021</u>.

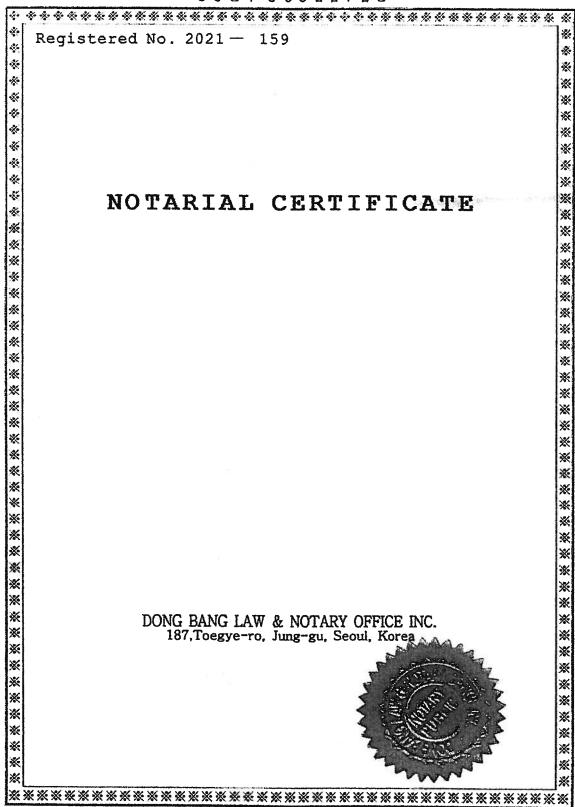
DB INSURANCE CO., LTD.

Jeong Nam Kim. President & CEO

Chart Sik Oh.
Chang Sik Oh. Secretary



### 공증인가 동방종합법무법인



[제42호 서식]	공증인가 동방종합법무법인 (영문사서본이요z)
	(영문사서본인용지
등부 2021 <b>인</b>	년 제 98 호 Registered No. 2021 - 98  NOTARIAL CERTIFICATE
본 공중인의	위임장  Chang Sik Oh, Chang Soo Lee  창식, 이창수  personally appeared before 은 me and admitted his(her) 면전에서 위 사서중서에 subscription to the attached 인 한 것임을 자인하였다.
202] 이 사무소	POWER OF ATTORNEY  This is hereby attested on 1월 15일 this 15th day of Jan. 에서 위 인중한다. 2021 at this office.
어울특별시 (필통	지방검찰청소속 BELCING TO SECUL CENTRAL DISTRICT PROSECUTORS OFFICE S 방중합법무법인 DONG BANG LAW & NOTARY OFFICE INC. 3F, 187, Toegye-To-Rung Seoul, Korea IT, 국제발당)  Attorney at law(Rep.) 'hung, Kyung Yong  This office has been authorized by the Minister of Justice, the Republic of Korea, to act as Notary Public since Apr. 26, 1984, under Law No.5



DB Financial Center, 432, Teheran-ro, Gangnam-gu, Seoul, Korea, 06194 Global Operations Part / Fax: 82-505-181-1023 / Tel. 82-2-3011-5825 / www.idbins.com

### **POWER OF ATTORNEY**



### KNOW ALL MEN BY THESE PRESENTS:

That DB Insurance Co., Ltd., a corporation duly organized and existing under and by virtue of the laws of the Republic of Korea, and having its principal office at the address of DB Financial Center, 432, Teheran-ro, Gangnam-Gu, Seoul, the Republic of Korea, does hereby nominate, constitute and appoint <u>Moylan's Insurance Underwriters, Inc.</u>, a corporation organized and existing under and by virtue of the laws of the Territory of Guam, having its principal office at the address of 102 Julale Center, 424 West O'Brien Drive, Hagatna, Guam, its true and lawful attorney-in-fact to make, execute, seal and deliver any and all bond, undertakings, contracts and other writings of suretyship for it and on its behalf.

IN WITNESS WHEREOF, DB Insurance Co., Ltd. has caused these presents to be signed by its appropriate officers, and to be affixed of its corporate seal thereunto, on this 1st day of Jan., 2021

DB INSURANCE CO., LTD.

Chang Soo Lee, Executive Vice President

C.S. fre

Chang Sik Oh, Secretary

# OFFICE OF THE BANKING AND INSURANCE COMMISSIONER CERTIFICATE OF AUTHORITY DEPARTMENT OF REVENUE AND TAXATION **GOVERNMENT OF GUAM**

RENEWAL

**COA218** 

Know All Men By These Presents That:

DB INSURANCE CO., LTD. Name

Address 891-10, DAECHI-DONG, SEOUL, KOREA, KO

Accident & Health

Classes of Insurance

Authorized

Fidelity & Surety Fire Marine Miscellaneous

Prop. Damage & Liability Reinsurance P & C Workmens Comp Motor Vehicle

KANGNAM - GU

Having complied with the Insurance Law of Guam, is hereby authorized to transact as an insurer, the above named to the 1st day of July, 2022 1st day of July, 2021 unless authority is revoked for failure to comply with the law.

General Agent(s):

Classes of Insurance in Guam from the

MOYLAN'S INSURANCE UNDERWRITERS INC

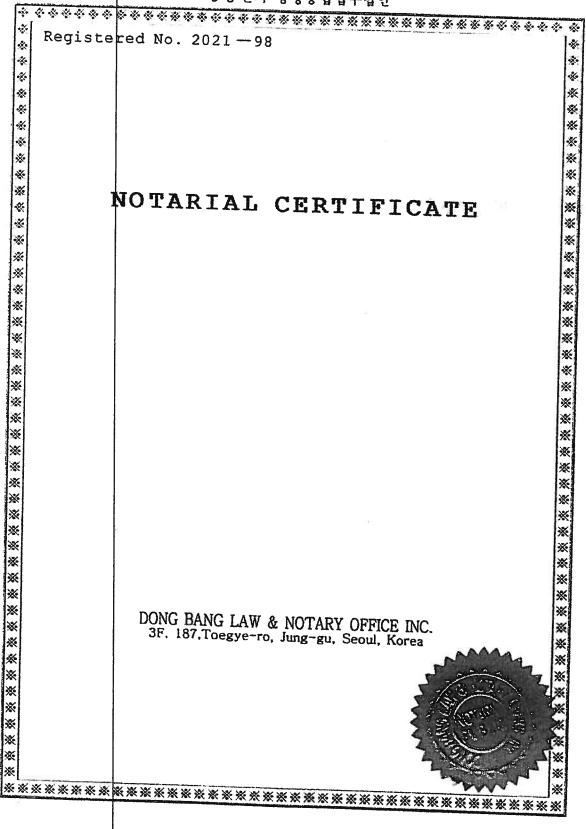
name officially and have hereon impressed my Seal of In Witness Whereof, I have hereunto subscribed my Office at the City of Hagatña, Guam on this 1st day of July, 2021

AMICHELLE B. SANTOS

Banking & Insurance Commissioner



### 공중인가 동방종합법무법인



# ATTACHMENT D BID SECURITY

BOND NO. KIC-15695-B

BID BOND NO. B21-17

hereinafter called the "Prince"  DB INSURANCE CO., LTD.  Territory of Guam, as Surety, hereinafter called the Guam for the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of the sum of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of 15% OF TOTAL BID AMOUNTY which sum will and truly to be made, the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince of 15% OF TOTAL BID AMOUNTY which sum will also the said Prince	, a duly admitted insurer under the laws of the "Surety", are held firmly bound unto the University of Dollars (\$\frac{15\times OF TOTAL}{BID AMOUNT}\), for payment of incipal and the said Surety bind ourselves, our heirs,
executors, administrators, successors and assigns,	jointly and severally, firmly by these presents.
Whereas, the Principal has submitted a bid fo UOG BID NO. B21-17 PURCHASING OF HVAC EQUIP	r (identify project by number and brief description)
into a Contract with the University of Guam in according bonds as may be specified in bidding or Contract Diperformance of such Contract and for the prompt patthereof. In the event of the failure of the Principal to Principal shall pay to the University of Guam the diamounts specified in said bid and such larger amount contract with another party to perform work cover specified in the Invitation for Bid, then this obligation force and effect.	Il accept the bid of the Principal, the Principal shall enter dance with the terms of such bid, and give such bond or documents with good and sufficient surety for the faithful ayment of labor and material furnished in the prosecution enter such Contract and give such bond or bonds, if the lifference not to exceed the penalty hereof between the bunt for which the University of Guam may in good faith end by said bid or an appropriate liquidated amount as an shall be null and void, but otherwise will remain in full the lay of DECEMBER (2021)  (PRINCIPAL) (SEAL)
(TITLE)  JEONG NAM KIM  (MAJOR OFFICER OF SURETY)  PRESIDENT & CEO  (TITLE)	CHANG SOO LEE  MAJOR OFFICER OF SURETY) EXECUTIVE VP  (TITLE) MOYLAN'S INSURANCE UND., INC. RESIDENT GENERAL AGENT)  CAROLINA O SERAFICA SURETY DIVISION MANAGER  13   P a g e

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

### ATTACHMENT C

### **BIDDER'S QUALIFICATIONS**

To be submitted in accordance with the provisions set forth in the INSTRUCTIONS TO BIDDERS contained in the bidding documents for the project.

The undersigned Bidder makes the following representations relating to its proposal to the UNIVERSITY OF GUAM.

The word "it", used herein by way of reference to the undersigned, shall be deemed to mean "he or she" if the Bidder is an individual and "they" if the Bidder is a partnership

	Harmon, Guam
2	STANDARD FOR DETERMINATION OF QUALIFIED BIDDER: In order to qualify as responsible, a
	ospective bidder must meet the following standards as they relate to the particular procurement under

- (a) Has adequate financial resources for performance, or has the ability to obtain such resources as required during performance.
  - (b) Has the necessary experience, organization, technical qualifications, skills, and facilities, or has the ability to obtain them.
  - (c) Is able to comply with the proposed or required performance schedule.
  - (d) Has a satisfactory record of integrity, judgment, and performance.

It maintains a permanent place of business at

1.

- (e) Must be able to conform to the requirements of the Equal Employment Opportunity Act.
- 3. It hereby represents and warrants that all statements set forth berein are true and correct. (If the Bidder is a partnership, the partnership name must be signed, followed by the signature of at least one of the partners. If the Bidder is a corporation, the corporate name must be signed, followed by the signature of a duly authorized officer and the corporate seal affixed. A typewritten copy of all such names and signatures shall be appended. No alterations, erasures, corrections or interlineations will be permitted).

Antonio C. Mendoza III

NAME OF BIDDER

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UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

9. INQUIRIES: All inquiries or questions and concerns must be submitted to the President of the University of Guam in writing through the procurement office at <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a>. Oral communications will not be considered.

### **ATTACHMENT B**

### SPECIAL GENERAL PROVISIONS

- 1. GENERAL INTENTION: It is the declared and acknowledged intention and meaning of this Special General Provision for the Bidder to provide the University of Guam with materials, supplies, or equipment completely assembled, and ready for use.
- 2. COMPETENCY OF BIDDERS: Bids will be considered only from such bidders who, in the opinion of the University, can show evidence of their ability, experience, and facilities to render satisfactory service.
- 3. CONTACT FOR CONTRACT ADMINISTRATION: If your firm receives a contract as a result of this invitation, please designate a person whom we may contact for prompt administration.

NAME: Michael SJ. Ecalnea	TITLE: Project Engineer  ADDRESS: PO Box 23066 GMF Barrigada, Guam 9692	
NAME OF COMPANY: Tony's Workshop		
TEL:(671) 637-3060 FAX: (671) 637-3139	E-Mail Address: mike@tonysworkshop.com tonysworkshop@teleguam.net	
4 INODECTION AND A COLUMN	tonysworkshop@teleguam.net	

- 4. INSPECTION: All supplies, materials, or equipment delivered under this contract shall be subject to the inspection and test conducted by the University at destination. If, in any case, the supplies, materials, or equipment are found to be defective in material, workmanship, performance or otherwise does not conform to the specifications, the University shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the University of Guam.
- 6. BID ELECTRONIC FILE: Bid file shall be marked with the bidder's name, bid invitation number, and bid title.

NOTE: UNDER NO CIRCUMSTANCES WILL LATE BIDS BE ACCEPTED BY THIS OFFICE.

- 7. RECEIPT, OPENING AND RECORDING OF BIDS: Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bid. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 8, below. Materials so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary.
- 8. CONFIDENTIAL DATA: The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of UOG Procurement Regulations, the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data.

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### CONTRACTOR'S LICENSE

Lt. Governor of Guam **JOSH TENORIO** 

Governor of Guam **LOU LEON GUERRERO** 

the Executive Director of Contractors hereby issues this license to: Guam and the Rules and Regulations of the Contractors License Board, Pursuant to the provisions of Chapter VII Title XI of the Government of

dba: Tony's Workshop III ssobonaM. O oinotnA

of a contractor in the following classifications To engage in the business or act in the capacity

A,B,C40 & C51

and shall be returned to the Executive Director upon demand when suggended, revoked, or invalidated for any reason. It becomes void if not renewed on or before the expiration date. This license is the property of the Executive Director of Confinactors, not transferable,

Ficeuse # 8632 Signature of LICENSEE

Expires: June 30, 2022 Certificate # C-0621-0440 **GRT # 941288** 

Issued: June 11, 2021

Signature of RME #

EXECUTIVE DIRECTOR сесіг "ВПРРУ" Г. ОКЅІМІ



CLB BOARD CHAIRMAN



## COMPRACTOR'S LICENSE

JOSH TENORIO

GOVERNOR OF GUISM
COULEON GUERRERO

Pursuant to the provisions of Chapter VII Title XI of the Government of Guam and the Rules and Regulations of the Contractors License Board, the Executive Director of Contractors hereby issues this license to:

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GRT # 941288 Certificate # C-0621-0440

Issued: June 11, 2021

Signature of RME

Expires: June 30, 2022

E THE STREET

JAMES M. CASALLO CLB BOARD CHAIRMAN





## **SUBMITTAL**

#### **Project**

HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

#### **Date**

Wednesday, December 1, 2021

#### **Project Number**

HA-1702-21-11

#### **Contractor**

UNIVERSITY OF GUAM - PROCUREMENT OFFICE

BERNARD LLARENAS CARRIER GUAM INC.

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## **RFK BUILDING SECOND FLOOR 112221**

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## **RFK BUILDING SECOND FLOOR 112221**

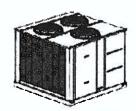
Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For RFK BUILDING SECOND FLOOR 112221

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:	38APD	
	50 Tons	
Voltage:	208-3-60	V-Ph-Hz
No. of Circuits:	Two Circuits	

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Compressor Type:	Scroll	
Std. Capacity Steps:	23, 50, 73, 100	
Std. Min. Outdoor Temp(C	ooling):25.0 °F	=
No. of Outdoor fans:	3	

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	7'	8.1"	
Unit Width:	7'	4.2"	
Unit Height:			
Unit Operating Weight:			lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD05056-3009J		1
	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
33CS2PP2S-03	Thermostat for Outdoor Unit	1
30GT-911062	Navigator for Outdoor Unit	1

# Performance Summary For RFK BUILDING SECOND FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System:	BAPD050	
140. 01 Otagos	ol Chama	
Cytical Rudingly	al Stage	
Altitude:		٠.
EER @ AR! Conditions:	600.0	π
EER @ ARI Conditions:	11.1	
22.7 & Ambient Conditions	102	
IPLV:	14.9	
Capacity Split Percentage (A ckt/B ckt):	40/50	%
	2.0	۰
Condensing unit is rated in accordance with ARI 365.		Г

## Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
26 - 50	5/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
51 - 75	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 7/8 (B)	1 5/8 (A), 2 1/8 (B)
101 - 125	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### Liquid Line Sizing

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 7/8 (B)
51 - 75	7/8 (A), 7/8 (B)
76 - 100	7/8 (A), 7/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	<b>Suction Line Size</b>
0 - 25	1 3/8 (A), 1 3/8 (B)
26 - 50	1 5/8 (A), 1 5/8 (B)
51 - 75	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 2 1/8 (B)
101 - 125	2 1/8 (A), 2 1/8 (B)
126 - 150	2 1/8 (A), 2 1/8 (B)
151 - 175	2 1/8 (A), 2 1/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

Outd	oor U	nit Pa	rameters
------	-------	--------	----------

Unit Quantity:	
Unit Quantity:1 PartNumber:38APD05056-3009J	
OTHE WOODE	
	V-Ph-Hz
Total Clg Cap.(Gross):	MBH

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## Performance Summary For RFK BUILDING SECOND FLOOR 112221

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SDT:	۰F	
SDT2:131.2	۰F	
SCT:127.8	۰F	
SCT2:131.1	°F	
Clg Ent Air DB: 95.0	۰F	
Saturated Suction Temp: 45.0	۰F	

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

The state of the s		
Unit Voltage:	208-3-60	V-Ph-H
Unit MCA:	231.4	Amps
Unit MOCP:	250.0	Amps
Compressor Power:	52.30	
Voltage Range Min:	187	V
Voltage Range Max:	254	v
Compressor RLA:	48.1/51.3	•
Compressor LRA:	245/300	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Fan Motors Qty:	3	
Fan Motor FLÁ:	NA	Amps
Notice: Outdoor unit elect, data is based on 208-3-60		

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Standard Line Length, RTPF	1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Thermostat for Outdoor Unit	1
Navigator for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level:....

#### **Acoustic Notes:**

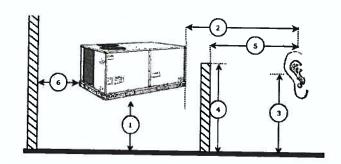
- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

# Performance Summary For RFK BUILDING SECOND FLOOR 112221 Project: HA-1702-21-11 UOG IFB 821-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### Advanced Acoustics Parameters

avanced Acoustics Fatallietels		
Unit height above ground:	1.0	ft
Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6. Horizontal dist. from unit to obstruction:	o.o	



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	Ale	OI.	<del></del>
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	92	88	4k   85	8k 82	10
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	86	91	92	90	86	81	9
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	<del>    7</del> 5
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	61	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Acoustic Summary For RFK BUILDING SECOND FLOOR 112221

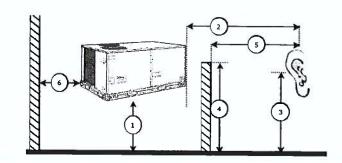
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#### **Outdoor Unit Parameters:**

Tag Name: RFK BUILDING	<b>SECOND FLOOR 112221</b>
Unit Model:	
Unit Size:	50 Tons
System Type:	
Refrigerant Type:	PURON
Compressor Quantity:	2 (Circ A), 2 (Circ B)
Compressor Type:	



#### **Advanced Accoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	O
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	92	88	85	82	10:
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	86	91	92	90	86		97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	78
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	61	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

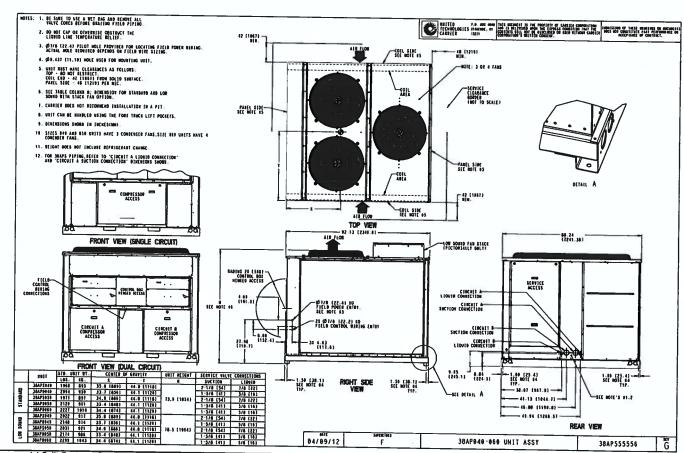
#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for RFK BUILDING SECOND FLOOR 112221

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### GUIDE SPECIFICATIONS - 38APD05056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 050

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

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B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenser fans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. CondenserCoils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - 1. Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator™ display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - 1. Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Low pressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressorreverse rotation protection.
    - e. Loss of charge protection.
    - f. Low suction superheat protection.
    - g. Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

<ol><li>2.08. Operating Characteristic</li></ol>	cteristics:
--	-------------

A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF (C).
	The power consumption at full load shall not exceedBtuh (kW).
B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh(kW)orgreaterat conditions ofcfm(L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF (C) dry bulb, and air entering the condensing unit atF (C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/wattor greater at standard AHRI conditions.
	ctricalRequirements:
Α.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal block.

#### 2.10. Special Features:

2.09.

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - 9. Navigator module shall be available as field-installed accessory for all units.

## Guide Specification for RFK BUILDING SECOND FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

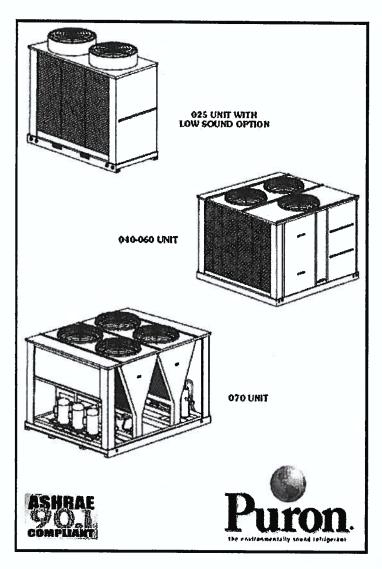
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- C. BACnet Communication Option:
  - $1. \quad The \, BACnet \, Communication \, option \, shall \, provide factory-installed \, communication \, capability \, with \, a \, BACnet \, MS/TP$  $network. Allows integration with i-Vu \circledR Open control systemora BAC net building automation system. \\$
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



#### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

## **RFK BUILDING FIRST FLOOR 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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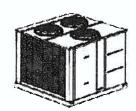
## **RFK BUILDING FIRST FLOOR 112221**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For RFK BUILDING FIRST FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:	38APD	
Unit Size:		•
Voltage:		V-Ph-Hz
No. of Circuits:	Two Circuits	

#### **System Parameter**

System Quantity:	1
Refrigerant Type:	PURON
Compressor Quantity:	2 (Circ A), 2 (Circ B)
Compressor Type:	Scroll
Std. Capacity Steps:	23, 50, 73, 100
Std. Min. Outdoor Temp(	
No. of Outdoor fans:	

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	7' 8.1"	
Unit Width:	7' 4.2"	
Unit Height:		
Unit Operating Weight:		lb

## Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD04056-3009J		1
	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
30GT-911062	Navigator for Outdoor Unit	1
33CS2PP2S-03	Thermostat for Outdoor Unit	1

# Performance Summary For RFK BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System:	38APD040	
No. or Stages	Dual Stage	
	600 A	*
221 @ 711 OO1010113	11 5	ıı
LLN & Ambient Conditions	10.7	
IPLV.	45.2	
Capacity Split Fercentage (A CKI/B CKI):	EAIAC	%
Suction Line Loss:  Condensing unit is rated in accordance with ARI 365.	2.0	°F

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 1/8 (A), 1 1/8 (B)
26 - 50	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
51 - 75	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 5/8 (B)
51 - 75	5/8 (A), 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 1/8 (A), 1 1/8 (B)
26 - 50	1 3/8 (A), 1 3/8 (B)
51 - 75	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 1 5/8 (B)
101 - 125	1 5/8 (A), 1 5/8 (B)
_ 126 - 150	2 1/8 (A), 1 5/8 (B)
151 - 175	2 1/8 (A), 1 5/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:1 PartNumber:	
PartNumber: 38APD04056-3009J	
39ADD	
Unit Size: 40 Tons Voltage: 200 0 00	
Voltage: 208-3-60 Total Clg Cap (Gross):	
Total Clg Cap (Gross):	V-Ph-Hz
Total Clg Cap.(Gross): 457.4	MBH

Commercial Split Systems Builder 1.39z

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## Performance Summary For RFK BUILDING FIRST FLOOR 112221

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SDT:	3 '	°F
SDT2:	} '	°F
SCT:124.	2 '	°F
SCT2:120.	3 '	°F
Clg Ent Air DB: 95.	) '	°F
Saturated Suction Temp: 45.	) '	°F

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-H
Unit MCA:	167.2	Amps
Unit MOCP:	200.0	Amps
Compressor Power:	38.30	
Voltage Range Min:	187	V
Voltage Range Max	254	v
Compressor RLA:	35.8/33.4	·
Compressor LRA:	239/225	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Fan Motors Qty:	3	
Fan Motor FLA:	NA	Amps
Notice: Outdoor unit elect, data is based on 208-3-60		

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Standard Line Length, RTPF	1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Navigator for Outdoor Unit	1
Thermostat for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level:....

...96.5 dbA

#### **Acoustic Notes:**

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

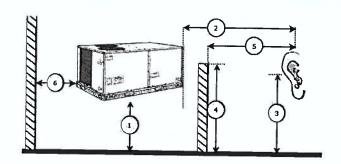
## Performance Summary For RFK BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:1.0	ft
2. Horizontal distance from unit to receiver: 20.0	ft
3. Receiver height above ground: 5.7	ft
4. Height of obstruction: 0.0	ft
5. Horizontal dist. from obstruction to receiver: 0.0	ft
6. Horizontal dist, from unit to obstruction:	



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	l2k	Ale	lol.	
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	91	88	85	8k 82	1
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86	81	9
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	+
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	7:

Calculation methods used in this program are patterned after the ASHRAE Guide, other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## **Acoustic Summary For RFK BUILDING FIRST FLOOR 112221**

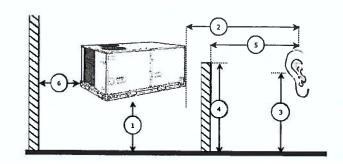
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Outdoor Unit Parameters:**

Tag Name:RFK BUILDII	NG FIRST FLOOR 112221
Unit Model:	38APD
Unit Size:	40 Tons
	Dx Cooling Only
Refrigerant Type:	PÜRON
Compressor Quantity:	2 (Circ A), 2 (Circ B)
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	O
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	91	88	85	82	10;
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86		97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	77
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

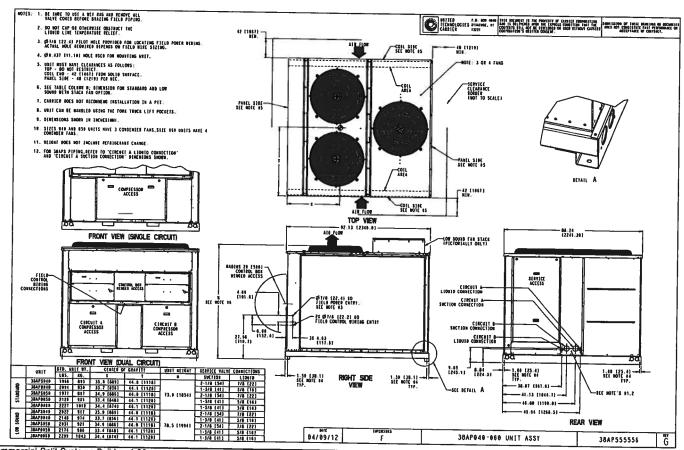
#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for RFK BUILDING FIRST FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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### GUIDE SPECIFICATIONS - 38APD04056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 040

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)...
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

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B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenserfans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - 1. Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator™ display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Servicediagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - 1. Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Lowpressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressorreverse rotation protection.
    - e. Loss of charge protection.
    - f. Low suction superheat protection.
    - g. Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

2 08	Operating	Characteristics
<b></b>	Operating	

A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF (C)
	The power consumption at full load shall not exceedBtuh (kW).
B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh(kW) or greater at conditions ofcfm(L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF (C) dry bulb, and air entering the condensing unit atF (C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/wattor greater at standard AHRI conditions.
	ctrical Requirements:
Α.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal

## block. 2.10. Special Features:

2.09.

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - 9. Navigator module shall be available as field-installed accessory for all units.

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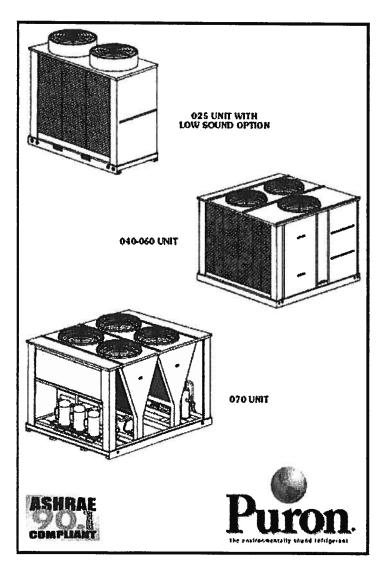
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- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



#### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

#### 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS



#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:	38AUD	
Unit Size:	15 Tons	
Voltage:		V-Ph-Hz
Condenser Coil:	Cu/Cu	
No. of Stages:		

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2	
Compressor Type:	Scroll	
Std. Capacity Steps:	50, 100	
Std. Min. Outdoor Temp(Cooling):		°F
No. of Outdoor fans:	3	

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	.7'	2.4"	
Unit Width:	.3'	7.4"	
Unit Height:			
Unit Shipping Weight:			lb
Unit Operating Weight:			lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38AUDA16A0E5-0A0A0		1
	Base Unit	
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	2

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# Unit Report For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:1

02:16PM

KM680004	Sight Glass for Outdoor Unit	2
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

## Performance Summary For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

System:	38AUD016	
No. of Stages	Dual Stage	
System Quantity:	1	
	600.0	ft
EER @ ARI Conditions:	13.4	
Suction Line Loss:	1.4	°F

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size				
0 - 25	3/8	7/8				
26 - 50	3/8	1 1/8				
51 - 75	1/2	1 1/8				
76 - 100	1/2	1 1/8				
101 - 125	1/2	1 3/8				
126 - 150	5/8	1 3/8				
151 - 175	5/8	1 3/8				
176 - 200	5/8	1 3/8				

#### Refer to the 38AU installation instructions for installation specific line sizing guidance

#### **Outdoor Unit Parameters**

Unit Quantity:		
Faithumber	A0	
Unit Model: 38A		
Unit Size: 15 To	ns	
Condenser Coil:Cui	Cu	
Voltage: 208-3	-60	V-Ph-Hz
Total Cig Cap.(Gross):	3.9	MBH
	6.5	°F
Clg Ent Air DB:9	5.0	°F
Saturated Suction Temp: 4	5.0	°F

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-Hz
Unit MCA:	60.8	Amps
Unit MOCP:	80.0	Amps
Total Compressor Power of Unit:	13.00	kW
Voltage Range Min:	187	V
Voltage Range Max:	253	V
Compressor RLA:	25	
Compressor LRA:	164	
Compressor Quantity:	2	
Fan Motors Qty:	3	
Fan Motor FLA:	1.5	Amps
Notice: Outdoor unit elect. data is based on 208-3-60		

#### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

#### **FIOPS and Accessories Information**

FIOPS		Quantity
Accessories	┼-	Quantity
Liquid Line Solenoid Valve for Outdoor Unit	2	
Liquid Line Solenoid Valve for Outdoor Unit	2	
Sight Glass for Outdoor Unit	2	

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

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## Performance Summary For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

Thermostat for Outdoor Unit	1

A-Weighted	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
Total Level	82.6	NA
63Hz	60.5	NA
125Hz	65.1	NA
250Hz	70.3	NA
500Hz	77.2	NA
1000Hz	78.0	NA
2000Hz	75.4	NA
4000Hz	71.2	NA
8000Hz	63.9	NA
Sound Message	Sound for AUD016	

#### **Acoustic Notes:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.

## Performance Summary For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

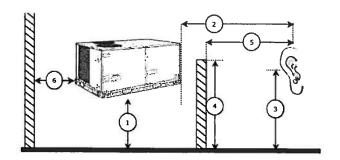
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ff
2. Horizontal distance from unit to receiver:	20.0	fi
3. Receiver height above ground:		
4. Height of obstruction:	0.0	fl
5. Horizontal dist. from obstruction to receiver:		
6. Horizontal dist. from unit to obstruction:	0.0	



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	87	81	79	80	78	74	70	65	89
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	61	65	70	77	78	75	71	64	83
Sound Press. Levels at Dist. Specified above (Lp), dB	62	57	55	56	54	50	46	41	65
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	36	41	46	53	54	51	47	40	58

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

### **Acoustic Summary For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE** 112321

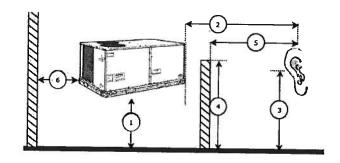
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

#### **Outdoor Unit Parameters:**

Tag Name: 20RFK BUILDIN ENTRANCE 112321	NG FIRST FLOOR MAIN
Unit Model:	38AUD
Unit Size:	15 Tons
System Type:	Dx Cooling Only
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

Unit height above ground:	1.0	ft
Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
<ol><li>Horizontal distance from obstruction to receiver</li></ol>	0.0	ft
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	87	81	79	80	78	74	70	65	89
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	61	65	70	77	78	75	71	64	83
Sound Press. Levels at Dist. Specified above (Lp), dB	62	57	55	56	54	50	46	41	65
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	36	41	46	53	54	51	47	40	58

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.
- 3. All estimated sound power levels, dB re 1 Picowatt should not be guaranteed or certified as being the actual sound power levels.

#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate

## Acoustic Summary For 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

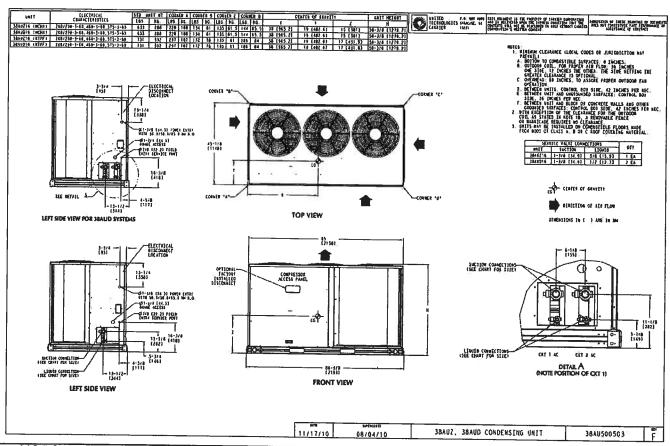
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an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## Guide Specification for 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE

112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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### GUIDE SPECIFICATIONS - 38AUDA16A0E5-0A0A0

## Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size: 16

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- 1.06. Unit shall be manufactured in a facility registered to ISO 9001:2000 manufacturing quality standard.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BYSPECIFYING ENGINEER.)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fanblades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

#### 2.04. Compressor.

## Guide Specification for 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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- A. Compressor shall be of the hermetic scroll type.
- B. Compressorshall be mounted on rubber grommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crank case heater.
- E. Compressorshall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

#### 2.05. CondenserCoils:

- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - 2. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
  - 3. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
- B. Optional Copper-fin evaporator and condenser coils:
  - 1. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
  - 2. Galvanized steel tube sheets shall not be acceptable.
  - 3. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

#### 2.06. Refrigeration Components:

A. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressoroil, and a partial holding charge of refrigerant.

#### 2.07. Controls and Safeties:

- A. Minimum control functions shall include:
  - 1. Control wire terminal blocks.
  - 2. Compressor lockout on auto-reset safety until reset from thermostat.
  - 3. Each unit shall utilize the Comfort Alertt Diagnostic Board that provides:
    - a System Pressure Trip fault code indication
    - b. Short Cycling fault code indication
    - c. Locked Rotorfault code indication
    - d. Open Circuit fault code indication
    - e. Reverse Phase 3 fault code indication
    - f. Welded Contactorfault code indication
    - g. Low Voltage fault code indication
    - h. Anti-short cycle protection
    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
  - 2. Lowpressure cutout.

200	A	4:	<u>^</u>	_4
Z.UO.	Opera	una	unara	cteristics

Ob.	Craing Characteristics.
A.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power
	consumption at full load shall not exceedkW.
B.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
	Btuhorgreater at conditions ofcfm entering-air temperature at the evaporator atFwet bulb andFdry
	bulb, and air entering the condensing unit atF.
C.	The system shall have an EER of Btuh/Watt or greater at standard AHRI conditions.
D.	Standard unit shall be capable to operate up to 125_F(52_C) and down to 40_F(4_C)

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## Guide Specification for 20RFK BUILDING FIRST FLOOR MAIN ENTRANCE 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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2.09. Electrical Requirements
-------------------------------

- A. Nominal unit electrical characteristics shall be \_\_\_\_\_v, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation within voltage limits of \_\_\_\_v to \_\_\_\_v.
- B. Unit electrical power shall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.

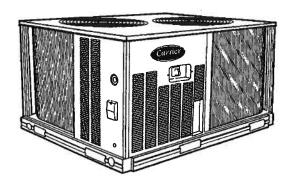
#### 2.10. Special Features:

- A. Thermostat Controls:
  - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
  - 2. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.

#### COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

## AIR-COOLED COOLING ONLY CONDENSING UNITS with PURON® REFRIGERANT

These light commercial air-cooled cooling only condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.













Manufactured in facility registered to ISO 9001:2008 quality standard

### **BASE UNIT STANDARD FEATURES:**

- Puron® (R-410A) HFC refrigerant partial charge
- Single circuit units (38AUZ) are available in 1 or 2 stage cooling
- Two circuit units (38AUD) are available in 2 stage cooling
- All models utilize round tube plate fin coils.
- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

## 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

## 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM



#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	38AUD
Unit Size:	
Voltage:	208-3-60
Condenser Coil:	Cu/Cu
No. of Stages:	Dual Stage

V-Ph-Hz

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2	
Compressor Type:		
Std. Capacity Steps:		
Std. Min. Outdoor Temp(Cooling):	35.0	°F
No. of Outdoor fans:		

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	7' 2.4"	
Unit Width:		
Unit Height:		
Unit Shipping Weight:		lb
Unit Operating Weight:		

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38AUDA16A0E5-0A0A0		
	Base Unit	
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	2

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## Unit Report For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

KM680004	Sight Glass for Outdoor Unit	2
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

## Performance Summary For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

System:	38AUD016	
No. of Stages:	Dual Stage	
System Quantity:	1	
	600.0	ft
EER @ ARI Conditions:	13.4	
	1.4	°F

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	3/8	7/8
26 - 50	3/8	1 1/8
51 - 75	1/2	1 1/8
76 - 100	1/2	1 1/8
101 - 125	1/2	1 3/8
126 - 150	5/8	1 3/8
151 - 175	5/8	1 3/8
176 - 200	5/8	1 3/8

#### Refer to the 38AU installation instructions for installation specific line sizing guidance

#### **Outdoor Unit Parameters**

Unit Quantity:1	
PartNumber: 38AUDA16A0E5-0A0A0	
Unit Model:38AUD	
Unit Size:15 Tons	
Condenser Coil: Cu/Cu	
Voltage:	V-Ph-Hz
Total Cig Cap.(Gross): 183.9	MBH
SDT:	°F
Clg Ent Air DB: 95.0	°F
Saturated Suction Temp: 45.0	°F

#### **Outdoor Electrical Data**

Unit Voltage: 208-3-60	V-Ph-Hz
Unit MCA: 60.8	Amps
Unit MOCP: 80.0	Amps
Total Compressor Power of Unit: 13.00	kW
Voltage Range Min:187	V
Voltage Range Max: 253	V
Compressor RLA: 25	
Compressor LRA:164	
Compressor Quantity: 2	
Fan Motors Qty:	
Fan Motor FLA: 1.5	Amps
Notice: Outdoor unit elect, data is based on 209 3 60	

Notice: Outdoor unit elect. data is based on 208-3-60

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

#### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

#### **FIOPS and Accessories Information**

FIOPS		Quantity
Accessories	-	Quantity
Liquid Line Solenoid Valve for Outdoor Unit	2	
Liquid Line Solenoid Valve for Outdoor Unit		· · · · ·
Sight Glass for Outdoor Unit	2	
Thermostat for Outdoor Unit	1	

Commercial Split Systems Builder 1.39z

# Performance Summary For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:16Pf

02:16PM

A-Weighted	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
Total Level	82.6	NA
63Hz	60.5	NA
125Hz	65.1	NA
250Hz	70.3	NA
500Hz	77.2	NA
1000Hz	78.0	NA
2000Hz	75.4	NA
4000Hz	71.2	NA
8000Hz	63.9	NA
Sound Message	Sound for AUD016	

#### **Acoustic Notes:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.

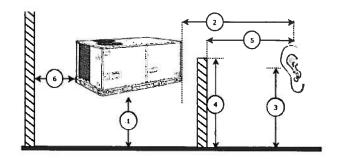
## Performance Summary For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

#### **Advanced Acoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6. Horizontal dist_from unit to obstruction:		



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	87	81	79	80	78	74	70	65	89
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	61	65	70	77	78	75	71	64	83
Sound Press. Levels at Dist. Specified above (Lp), dB	62	57	55	56	54	50	46	41	65
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	36	41	46	53	54	51	47	40	58

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Acoustic Summary For 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

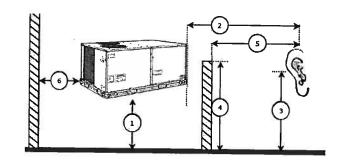
Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name: 7.5RFK BUILDING FIRST FLOOR AV ROOM

12321	
Unit Model:	38AUD
Unit Size:	15 Tons
System Type:	
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6. Horizontal distance from unit to obstruction:		

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overali
Sound Power Levels at Unit's Acoustic Center (Lw), dB	87	81	79	80	78	74	70	65	89
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#### **Acoustic Note:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.
- 3. All estimated sound power levels, dB re 1 Picowatt should not be guaranteed or certified as being the actual sound power levels.

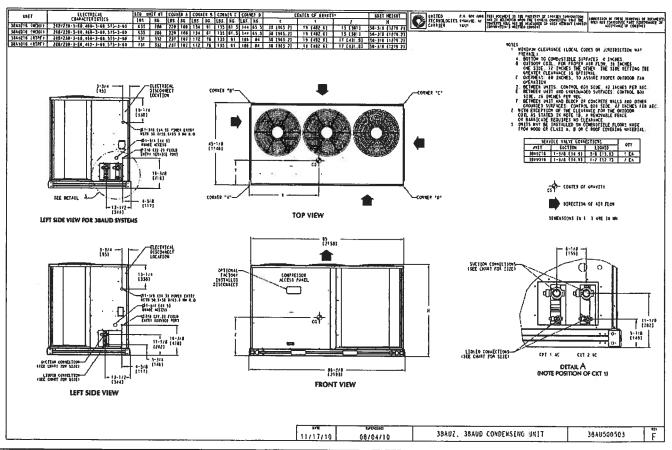
#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

### Certified Drawing for 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## Guide Specification for 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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## GUIDE SPECIFICATIONS - 38AUDA 16A0E5-0A0A0

## Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size: 16

#### Part1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- $1.06.\ Unitshall\,be\,manufactured\,in\,a\,facility\,registered\,to\,ISO\,9001:2000\,manufacturing\,quality\,standard.$

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

## WARRANTY (FOR INCLUSION BYSPECIFYING ENGINEER.)

#### Part 2: Products

### **EQUIPMENT**

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenserfans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fan blades shall be balanced.
- C. Condenserfandischarge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

#### 2.04. Compressor.

A. Compressor shall be of the hermetic scroll type.

## Guide Specification for 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

- B. Compressorshall bemounted on rubbergrommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crankcase heater.
- E. Compressor shall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

#### 2.05. Condenser Coils:

- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - 2. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
  - 3. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
- B. Optional Copper-fin evaporator and condenser coils:
  - 1. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
  - 2. Galvanized steel tube sheets shall not be acceptable.
  - 3. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

#### 2.06. Refrigeration Components:

A. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressor oil, and a partial holding charge of refrigerant.

#### 2.07. Controls and Safeties:

- A. Minimum control functions shall include:
  - 1. Control wire terminal blocks.
  - 2. Compressor lockout on auto-reset safety until reset from thermostat.
  - 3. Each unit shall utilize the Comfort Alertt Diagnostic Board that provides:
    - a System Pressure Trip fault code indication
    - b. Short Cycling fault code indication
    - c. Locked Rotorfault code indication
    - d. Open Circuit fault code indication
    - e. Reverse Phase 3 fault code indication
    - f. Welded Contactorfault code indication
    - g. Low Voltage fault code indication
    - h. Anti-short cycle protection
    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
  - 2. Lowpressure cutout.

2.08.	Operatin	g Chara	acteristics:
-------	----------	---------	--------------

2.00	Opt	erauriy Criaracierisus.
	Α.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power consumption at full load shall not exceedkW.
	В.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
		Btuh or greater at conditions ofcfm entering-air temperature at the evaporator atF wet bulb and F dry
		bulb, and air entering the condensing unit atF.
	C.	The system shall have an EER of Btuh/Watt or greater at standard AHRI conditions.
2.09.		ctricalRequirements:
	A.	Nominal unit electrical characteristics shall bev, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation

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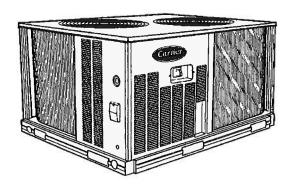
### Guide Specification for 7.5RFK BUILDING FIRST FLOOR AV ROOM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:16PM within voltage limits of \_\_\_\_vto \_\_\_v.

- B. Unit electrical power shall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.
- 2.10. Special Features:
  - A. Thermostat Controls:
    - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
    - 2. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.

### COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

### AIR-COOLED COOLING ONLY CONDENSING UNITS with PURON® REFRIGERANT

These light commercial air-cooled cooling only condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.













Manufactured in facility registered to ISO 9001:2008 quality standard

#### **BASE UNIT STANDARD FEATURES:**

- Puron® (R-410A) HFC refrigerant partial charge
- Single circuit units (38AUZ) are available in 1 or 2 stage cooling
- Two circuit units (38AUD) are available in 2 stage cooling
- All models utilize round tube plate fin coils.
- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- · Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- · High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - · Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

## 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	38AUD
Unit Size:	
Voltage:	208-3-60
Condenser Coil:	
No. of Stages:	

V-Ph-Hz

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2	
Compressor Type:	Scroll	
Std. Capacity Steps:	50, 100	
Std. Min. Outdoor Temp(Cooling):	35.0	°F
No. of Outdoor fans:		

**Outdoor Unit Dimensions and Weight** 

Unit Length:	7' 2.1"	
Unit Width:		
Unit Height:	4' 2.4"	
Unit Shipping Weight:		lb
Unit Operating Weight:	978	lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38AUDA25A0E5-0A0A0		1
	Base Unit	
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	2

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## Unit Report For 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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KM680004	Sight Glass for Outdoor Unit	2
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

## Performance Summary For 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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System:	38AUD025	
140. Of Otages	Anet2 leu0	
System Quantity: Altitude:	1	
		ft
EER @ ARI CONDITIONS:	13 6	14
	1 4	۰F
Condensing unit is rated in accordance with ARI 365.		•

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	3/8	1 1/8
26 - 50	1/2	1 1/8
51 - 75	5/8	1 3/8
76 - 100	5/8	1 3/8
101 - 125	5/8	1 3/8
126 - 150	5/8	1 3/8
151 - 175	5/8	1 3/8
176 - 200	3/4	1 3/8

## Refer to the 38AU installation instructions for installation specific line sizing guidance

Outdoo	r Unit I	Parameters
--------	----------	------------

Unit Quantity:1	
PartNumber: 38AUDA25A0E5-0A0A0	
Unit Woder	
Unit Size:	
Condenser Coil: Cu/Cu	
Voltage: 208-3-60	\/_Dh_Hz
Total Clg Cap.(Gross): 240.0	MRH
SUI:	°E
Clg Ent Air DB: 95.0	• <u>-</u>
Saturated Suction Temp: 45.0	۴

#### **Outdoor Electrical Data**

Unit Voltage: 208-3-60	V Dh Ha
Unit MCA: 200-3-60 Unit MCCD: 73.7	V-P11-11Z
Unit MOCP: 100.0	Amps
	Amps
Total Compressor Power of Unit: 16.70	kW
Voltage Range Min: 187	V
757	V
Compressor RLA	
Compressor LRA:	
Compressor Quantity: 2	
Fan Motors Qty:	
Fan Motor FLA:	_
Notice: Outdoor unit elect. data is based on 208-3-60	Amps

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

#### Acoustics

Sound Power Levels, db re 10E-12 Watts

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Accessories	Quantity
Liquid Line Solenoid Valve for Outdoor Unit	2
Liquid Line Solenoid Valve for Outdoor Unit	2
Sight Glass for Outdoor Unit	2

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# Performance Summary For 7.5RFK BUILDING FIRST FLOOR OFFICES 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:16P

02:16PM

Thermostat for Outdoor	Unit	1

A-Weighted	Outdoor Unit (dB)	Indoor Unit
		(dB,Ducted)
Total Level	85.2	NA
63Hz	64.8	NA
125Hz	68.9	NA
250Hz	71.4	NA
500Hz	82.8	NA
1000Hz	79.0	NA
2000Hz	74.2	NA
4000Hz	69.0	NA
8000Hz	61.9	NA
Sound Message	Sound for AUD025	

#### **Acoustic Notes:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.

## Performance Summary For 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

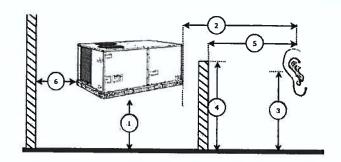
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

#### **Advanced Acoustics Parameters**

1. Unit height above ground: 1.0	ft
2. Horizontal distance from unit to receiver: 20.0	ft
3. Receiver height above ground:5.7	ft
4. Height of obstruction:0.0	ft
5. Horizontal dist. from obstruction to receiver:0.0	ft
6. Horizontal dist. from unit to obstruction:0.0	ft



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

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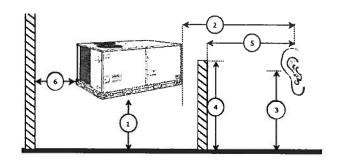
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name:7.5RFK BUILDING FIRST FLOOR OFFICES

12321	
Unit Model:	38AUD
Unit Size:	
System Type:	
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	
3. Receiver height above ground:		ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver	0.0	ft
6. Horizontal distance from unit to obstruction:	0.0	ft

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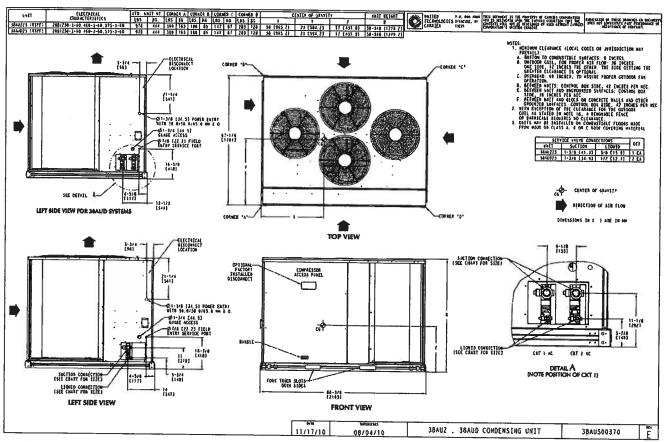
#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for 7.5RFK BUILDING FIRST FLOOR OFFICES 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## Guide Specification for 7.5RFK BUILDING FIRST FLOOR OFFICES 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### GUIDE SPECIFICATIONS - 38AUDA 25A0E5-0A0A0

## Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size: 25

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- $1.06.\ Unit shall be manufactured in a facility registered to ISO 9001:2000\ manufacturing\ quality\ standard.$

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BYSPECIFYING ENGINEER.)

#### Part 2: Products

### EQUIPMENT

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenserfans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fan blades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

#### 2.04. Compressor.

A. Compressor shall be of the hermetic scroll type.

## **Guide Specification for 7.5RFK BUILDING FIRST FLOOR OFFICES 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

02:16PM

- B. Compressorshall be mounted on rubber grommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crankcase heater.
- E. Compressorshall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

#### 2.05. Condenser Coils:

- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - 2. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
  - 3. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
- B. Optional Copper-fin evaporator and condenser coils:
  - 1. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
  - 2. Galvanized steel tube sheets shall not be acceptable.
  - 3. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

#### 2.06. Refrigeration Components:

A. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressor oil, and a partial holding charge of refrigerant.

#### 2.07. Controls and Safeties:

- A. Minimum control functions shall include:
  - 1. Control wire terminal blocks.
  - 2. Compressor lockout on auto-reset safety until reset from thermostat.
  - 3. Each unit shall utilize the Comfort Alertt Diagnostic Board that provides:
    - a System Pressure Trip fault code indication
    - b. Short Cycling fault code indication
    - c. Locked Rotorfault code indication
    - d. Open Circuit fault code indication
    - e. ReversePhase3faultcodeindication
    - f. Welded Contactor fault code indication
    - g. Low Voltage fault code indication
    - h. Anti-short cycle protection
    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
  - 2. Lowpressure cutout.

2.08. Opera	atina Cha	racteristics:
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2.00.	Oμ	erating Characteristics:
	A.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power
		consumption at full load shall not exceedkW.
	B.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
		Btuh or greater at conditions ofcfm entering-air temperature at the evaporator atF wet bulb andF dry
		bulb, and air entering the condensing unit atF.
	C.	The system shall have an EER ofBtuh/Watt or greater at standard AHRI conditions.
	D.	Standard unit shall be capable to operate up to 125_F (52_C) and down to 40_F (4_C)
2.09.	Ele	ctrical Requirements:
	A.	Nominal unit electrical characteristics shall bev, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation

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Guide Specification for 7.5RFK BUILDING FIRST FLOOR OFFICES 112321
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP
Prepared By: BERNARD LLARENAS

02:

within voltage limits of_	vto	v
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- B. Unit electrical power shall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.

#### 2.10. Special Features:

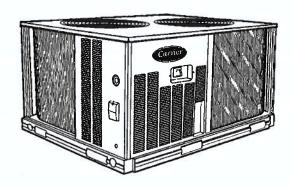
- A. ThermostatControls:
  - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
  - 2. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.

02:16PM

# COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

## AIR-COOLED COOLING ONLY CONDENSING UNITS with PURON® REFRIGERANT

These light commercial air-cooled cooling only condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.













Manufactured in facility registered to ISO 9001:2008 quality standard

### **BASE UNIT STANDARD FEATURES:**

- Puron® (R-410A) HFC refrigerant partial charge
- Single circuit units (38AUZ) are available in 1 or 2 stage cooling
- Two circuit units (38AUD) are available in 2 stage cooling
- All models utilize round tube plate fin coils.
- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

## PIP (GLE) SECOND FLOOR 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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## PIP (GLE) SECOND FLOOR 112321

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet



#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	38AUD
Unit Size:	
Voltage:	
Condenser Coil:	Cu/Cu
No. of Stages:	

V-Ph-Hz

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2	
Compressor Type:	Scroll	
Std. Capacity Steps:	50, 100	
Std. Min. Outdoor Temp(Cooling):	35.0	۴
No. of Outdoor fans:	4	

**Outdoor Unit Dimensions and Weight** 

Unit Length:	7' 2.1"	
Unit Width:		
Unit Height:	4' 2.4"	
Unit Shipping Weight:	978	lb
Unit Operating Weight:		

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38AUDA25A0E5-0A0A0		1
	Base Unit	
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	2

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# Unit Report For PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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KM680004	Sight Glass for Outdoor Unit	7
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

# Performance Summary For PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System:	38AUD025
No. of Stages: System Quantity:	Dual Stage
System Quantity:	1
Altitude:	600.0
EER @ ARI Conditions:	13.6
Suction Line Loss:  Condensing unit is rated in accordance with API 365	14
Condensing unit is rated in accordance with ARI 365	

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	3/8	1 1/8
26 - 50	1/2	1 1/8
51 - 75	5/8	1 3/8
76 - 100	5/8	1 3/8
101 - 125	5/8	1 3/8
126 - 150	5/8	1 3/8
151 - 175	5/8	1 3/8
176 - 200	3/4	1 3/8

# Refer to the 38AU installation instructions for installation specific line sizing guidance

#### **Outdoor Unit Parameters**

Unit Quantity:1	
PartNumber: 38AUDA25A0E5-0A0A0	
Unit Model:38AUD	
Unit Size: 20 Tons	
Condenser Coil: Cu/Cu	
Voltage: 208-3-60	V-Ph-Hz
Total Clg Cap.(Gross):240.0	MBH
SDT:	°F
Clg Ent Air DB: 95.0	°F
Saturated Suction Temp: 45.0	°F

#### **Outdoor Electrical Data**

Unit Voltage:208-3-60	V-Ph-Hz
	Amps
Unit MOCP: 100.0	Amps
Total Compressor Power of Unit: 16.70	kW
Voltage Range Min:187	V
voltage Range Max:	V
Compressor RLA: 30.1	
Compressor LRA: 225	
Compressor Quantity: 2	
Fan Motors Qty:4	
Fan Motor FLA: 1.5	Amps
Notice: Outdoor unit elect. data is based on 208-3-60	

#### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

#### FIOPS and Accessories Information

FIOPS	Quantity
Accessories	Quantity
Liquid Line Solenoid Valve for Outdoor Unit	2
Liquid Line Solenoid Valve for Outdoor Unit	2
Sight Glass for Outdoor Unit	2

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

# Performance Summary For PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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Thermostat for Outdoor Unit	1

A-Weighted	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
Total Level	85.2	NA
63Hz	64.8	NA
125Hz	68.9	NA
250Hz	71.4	NA
500Hz	82.8	NA
1000Hz	79.0	NA
2000Hz	74.2	NA
4000Hz	69.0	NA
8000Hz	61.9	NA
Sound Message	Sound for AUD025	

#### **Acoustic Notes:**

- 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
   The acoustic center of the unit is located at the geometric center of the unit.

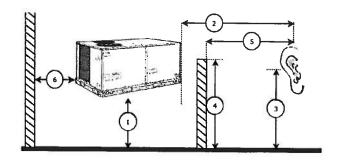
# Performance Summary For PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Advanced Acoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6 Horizontal dist from unit to obstruction:	0.0	-



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overail
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

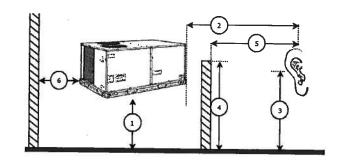
# Acoustic Summary For PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name:PIP (GLE) SECO	OND FLOOR 112321
Unit Model:	38AUD
Unit Size:	20 Tons
System Type:	Dx Cooling Only
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	) ft
2. Horizontal distance from unit to receiver: 20.	) ft
3. Receiver height above ground:5.	7 ft
4. Height of obstruction: 0.	) ft
5. Horizontal distance from obstruction to receiver:0.	) ft
6. Horizontal distance from unit to obstruction: 0.6	) ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
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#### **Acoustic Note:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.
- 3. All estimated sound power levels, dB re 1 Picowatt should not be guaranteed or certified as being the actual sound power levels.

#### **Acoustic Note:**

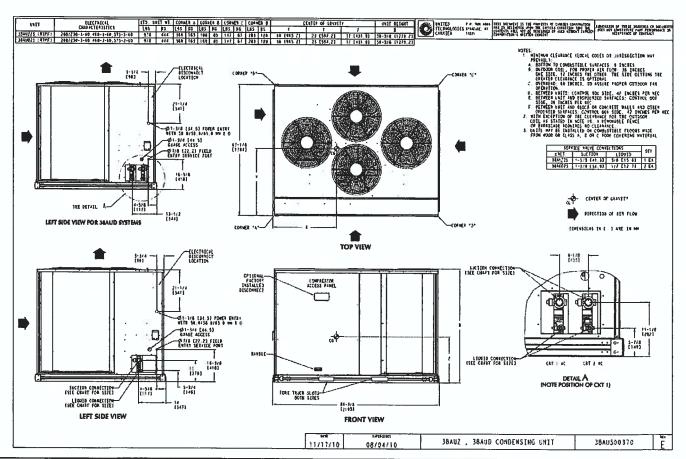
- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for PIP (GLE) SECOND FLOOR 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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12/01/2021



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# **Guide Specification for PIP (GLE) SECOND FLOOR 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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### GUIDE SPECIFICATIONS - 38AUDA25A0E5-0A0A0

# Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size: 25

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- 1.06. Unit shall be manufactured in a facility registered to ISO 9001:2000 manufacturing quality standard.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BYSPECIFYING ENGINEER.)

#### Part 2: Products

# EQUIPMENT

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fan blades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

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A. Compressor shall be of the hermetic scroll type.

# Guide Specification for PIP (GLE) SECOND FLOOR 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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- B. Compressorshall be mounted on rubbergrommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crankcase heater.
- E. Compressor shall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

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- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
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    - f. Welded Contactorfault code indication
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    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
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2	00	Operating	Channa	
/	אנו	Operating	Charac	Teristics

	•	• • • • • • • • • • • • • • • • • • •
	Α.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power consumption at full load shall not exceedkW.
	B.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
		Btuhor greater at conditions ofcfm entering-air temperature at the evaporator atFwet bulb andFdry
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	C.	The system shall have an EER ofBtuh/Wattor greater at standard AHRI conditions.
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	A.	Nominal unit electrical characteristics shall bev, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation

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# Guide Specification for PIP (GLE) SECOND FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

ared by: Bernard Llarenas 02:16PM

within voltage limits of \_\_\_\_vto \_\_\_v.

- B. Unit electrical powershall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.

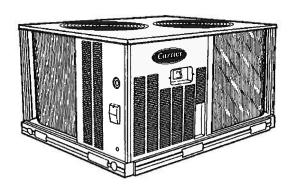
#### 2.10. SpecialFeatures:

- A. Thermostat Controls:
  - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
  - 2. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.

### COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

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- Two circuit units (38AUD) are available in 2 stage cooling
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- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24volt 75va control system
- High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- · Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

# **10SCIENCE BUILDING FIRST FLOOR 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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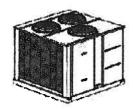
# **10SCIENCE BUILDING FIRST FLOOR 112221**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

# Unit Report For 10SCIENCE BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	
Unit Size:	40 Tons
Voltage:	208-3-60
No. of Circuito:	Two Circuita

V-Ph-Hz

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:		
Compressor Type:	Scroll	
Std. Capacity Steps:		
Std. Min. Outdoor Temp(0	Cooling):32.0	°F
No. of Outdoor fans:		

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	7′ 8.1"	
Unit Width:	7' 4.2"	
Unit Height:	6' 1.0"	
Unit Operating Weight:		lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD04056-3009J		1
<del></del>	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
30GT-911062	Navigator for Outdoor Unit	1
33CS2PP2S-03	Thermostat for Outdoor Unit	1

# Performance Summary For 10SCIENCE BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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System:	38APD040	
No. of Stages:	Dual Stage	
System Quantity:		
Altitude:	600.0	ft
EER @ ARI Conditions:	11.5	
EER @ Ambient Conditions:	10.7	
IPLV:	15.3	
Capacity Split Percentage (A ckt/B ckt):	54/46	%
Suction Line Loss:	2.0	°F
Condensing unit is rated in accordance with ARI 365.	100000000000000000000000000000000000000	

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 1/8 (A), 1 1/8 (B)
26 - 50	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
51 - 75	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 5/8 (B)
51 - 75	5/8 (A), 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 1/8 (A), 1 1/8 (B)
26 - 50	1 3/8 (A), 1 3/8 (B)
51 - 75	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 1 5/8 (B)
101 - 125	1 5/8 (A), 1 5/8 (B)
126 - 150	2 1/8 (A), 1 5/8 (B)
151 - 175	2 1/8 (A), 1 5/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	1	
PartNumber:	38APD04056-3009J	
Unit Model:	38APD	
Unit Size:	40 Tons	
Voltage:	208-3-60	V-Ph-Hz
Total Clg Cap.(Gross):	457.4	MBH

# Performance Summary For 10SCIENCE BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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SDT:	.3	°F
SDT2:	9	°F
SCT:	.2	°F
SCT2:120.	8.	۴
Clg Ent Air DB:95.	.0	°F
Saturated Suction Temp:45.	0	°F

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:208-3-60	V-Ph-Hz
	Amps
Unit MOCP:	Amps
Compressor Power: 38.30	kW
Voltage Range Min:	V
Voltage Range Max: 254	V
Compressor RLA: 35.8/33.4	•
Compressor LRA: 239/225	
Compressor Quantity: 2 (Circ A), 2 (Circ B)	
Fan Motors Qty:	
Fan Motor FLA: NA	Amps
Notice: Outdoor unit elect. data is based on 208-3-60	

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Standard Line Length, RTPF	1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Navigator for Outdoor Unit	1
Thermostat for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level: \_\_\_\_\_\_96.5 dbA

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

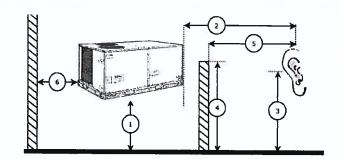
# Performance Summary For 10SCIENCE BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:		
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6 Horizontal dist from unit to obstruction:	0.0	4



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Over
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	91	88	85	82	102
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	77
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## **Acoustic Summary For 10SCIENCE BUILDING FIRST FLOOR 112221**

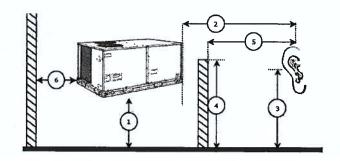
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name: 10SCIENCE BU	LDING FIRST FLOOR 112221
Unit Model:	38APD
Unit Size:	
System Type:	Dx Cooling Only
Refrigerant Type:	PURON
Compressor Quantity:	2 (Circ A), 2 (Circ B)
Compressor Type:	



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:		ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver		
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Over
Sound Power Levels at Unit's Acoustic Center (Lw), dB		98	95	94	95	91	88	85	82	102
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	77
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

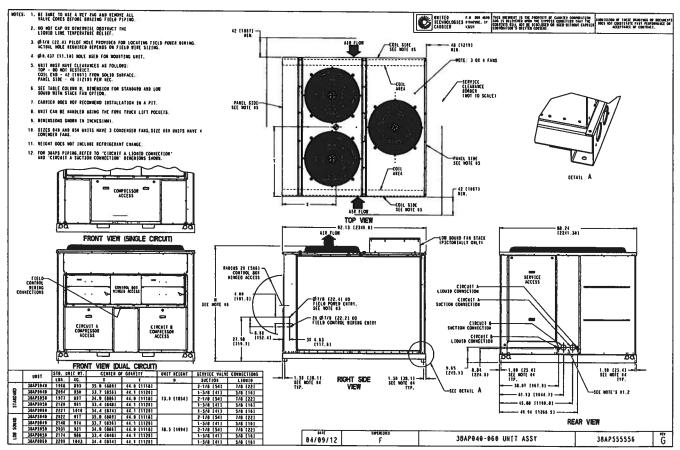
- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for 10SCIENCE BUILDING FIRST FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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12/01/2021



Commercial Split Systems Builder 1.39z

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Prepared By: BERNARD LLARENAS

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## GUIDE SPECIFICATIONS - 38APD04056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 040

#### Part 1: General

#### SYSTEMDESCRIPTION

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

## WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

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B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenser fans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressor oil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - 1. Scrolling marquee display module shall be used for accessing condensing unit information, reading sensorvalues, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator<sup>TM</sup> display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - 1. Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressorlockout protection for internal or external overload.
    - b. Low pressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressor reverse rotation protection.
    - e. Loss of charge protection.
    - Low suction superheat protection.
    - Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - Circuit breakers or fuses for short circuit protection of compressors.

2.00. Operating Characteristics	2.	08.	Operating	Characteristic	s
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	A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF(C).
		The power consumption at full load shall not exceedBtuh ( kW).
	B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
		Btuh(kW)orgreaterat conditions ofcfm(L/s) entering-air temperature at the evaporator atF
		(C) wet bulb andF(C) dry bulb, and air entering the condensing unit atF(C).
	C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
2.09.	Ele	ctrical Requirements:
	A.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal
		block.

### 2.10. Special Features:

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil  $construction\,shall\,be\,copper-fins\,mechanically\,bonded\,to\,copper tube\,sheets.\,Galvanized\,steel\,tube\,sheets\,shall\,not\,be\,copper-fins\,mechanically\,bonded\,to\,copper tube\,sheets.\,Galvanized\,steel\,tube\,sheets\,shall\,not\,be\,copper-fins\,mechanically\,bonded\,to\,copper-f$ acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - 9. Navigator module shall be available as field-installed accessory for all units.

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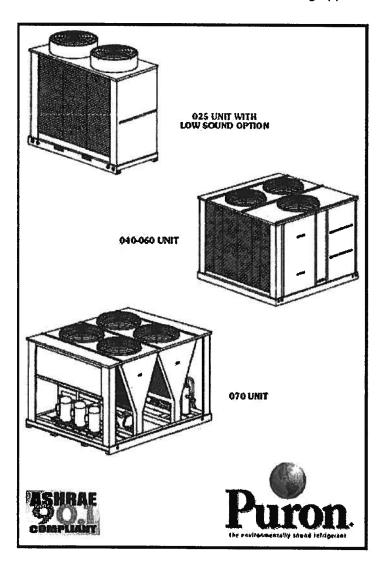
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- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



#### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

## **20SCIENCE BUILDING SECOND FLOOR 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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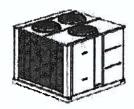
# **20SCIENCE BUILDING SECOND FLOOR 112221**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

# Unit Report For 20SCIENCE BUILDING SECOND FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:		
Unit Size:	40 Tons	
Voltage:	208-3-60 V-Ph-H	Z
No. of Circuits:		

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	.2 (Circ A), 2 (Circ B)	
Compressor Type:	Scroll	
Std. Capacity Steps:		
Std. Min. Outdoor Temp(C		F
No. of Outdoor fans:		

#### **Outdoor Unit Dimensions and Weight**

7' 8.1"	
7' 4.2"	
	lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD04056-3009J		1
00/11/20/1000/0000	Base Unit	- <del></del>
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
-	Copper E-Coat Fin / Copper Tube	1
Accessories		
30GT-911062	Navigator for Outdoor Unit	1
33CS2PP2S-03	Thermostat for Outdoor Unit	1

# Performance Summary For 20SCIENCE BUILDING SECOND FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

System:	38APD040	
No. of Stages:	Dual Stage	
System Quantity:	1	
Altitude:	600.0	ft
EER @ ARI Conditions:	11.5	
EER @ Ambient Conditions:	10.7	
IPLV:	15.3	
Capacity Split Percentage (A ckt/B ckt):	54/46	%
Suction Line Loss:	2.0	°F
Condensing unit is rated in accordance with ARI 365.		

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 1/8 (A), 1 1/8 (B)
26 - 50	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
51 - 75	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 1 5/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 5/8 (B)
51 - 75	5/8 (A), 5/8 (B)
76 - 100	7/8 (A), 5/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 1/8 (A), 1 1/8 (B)
26 - 50	1 3/8 (A), 1 3/8 (B)
	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 1 5/8 (B)
101 - 125	1 5/8 (A), 1 5/8 (B)
126 - 150	2 1/8 (A), 1 5/8 (B)
151 - 175	2 1/8 (A), 1 5/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	1	
PartNumber:		
Unit Model:	20ADD	
Unit Size:		
Voltage:	208-3-60 V-Ph-H	1z
Total Clg Cap.(Gross):	457.4 MBH	-

# Performance Summary For 20SCIENCE BUILDING SECOND FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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SDT:	124.3	۰F	:
SDT2:	120.9	۰F	
SCT:	124.2	۰F	
SCT2:	120.8	°F	
Clg Ent Air DB:	95.0	°F	
Saturated Suction Temp:	45 0	°F	

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage: 208-3-60	V-Ph-Hz
	Amps
Unit MOCP: 200.0	Amps
Compressor Power: 38.30	kW
Voltage Range Min:187	V
Voltage Range Max:	v
Compressor RLA: 35.8/33.4	•
Compressor LRA: 239/225	
Compressor Quantity: 2 (Circ B)	
Fan Motors Otv	
Fan Motor FLA: NA	Amps
Notice: Outdoor unit elect. data is based on 208-3-60	

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Standard Line Length, RTPF	<del>-  </del> 1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Navigator for Outdoor Unit	1
Thermostat for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level: \_\_\_\_\_\_96.5 dbA

#### **Acoustic Notes:**

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

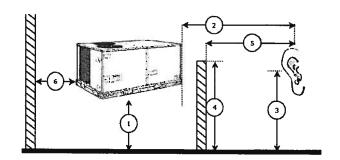
# Performance Summary For 20SCIENCE BUILDING SECOND FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:1.0	ft
2. Horizontal distance from unit to receiver: 20.0	ft
3. Receiver height above ground:5.7	
4. Height of obstruction: 0.0	ft
5. Horizontal dist. from obstruction to receiver: 0.0	ft
6. Horizontal dist. from unit to obstruction: 0.0	



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	11k	2k	4k	8k	Overa
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	91	88	85	82	102
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	77
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

# **Acoustic Summary For 20SCIENCE BUILDING SECOND FLOOR 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

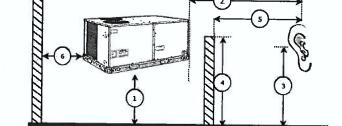
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#### **Outdoor Unit Parameters:**

Tag Name:20SCIENCE BUILDING SECOND FLO 112221			
Unit Model:	38APD		
Unit Size:	40 Tons		
System Type:	Dx Cooling Only		

Refrigerant Type: PURON
Compressor Quantity: 2 (Circ A), 2 (Circ B)
Compressor Type: Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	ft
2. Horizontal distance from unit to receiver: 20.0	ft
3. Receiver height above ground: 5.7	ft
4. Height of obstruction: 0.0	ft
5. Horizontal distance from obstruction to receiver:0.0	ft
6. Horizontal distance from unit to obstruction:0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Ove
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	91	88	85	82	102
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	85	91	91	89	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	77
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	60	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

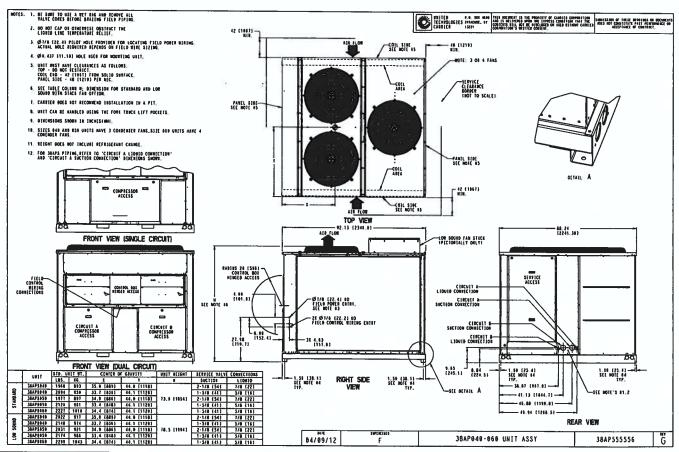
## Certified Drawing for 20SCIENCE BUILDING SECOND FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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12/01/2021



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# Guide Specification for 20SCIENCE BUILDING SECOND FLOOR 112221

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# GUIDE SPECIFICATIONS - 38APD04056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 040

#### Part 1: General

#### SYSTEM DESCRIPTION

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Designpressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

# WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

# Guide Specification for 20SCIENCE BUILDING SECOND FLOOR 112221

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B. Control boxaccess panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenser fans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- $C. \quad \text{Compressors shall be mounted on two rails having rubber in shear vibration isolators}.$
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator<sup>TM</sup> display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

#### Guide Specification for 20SCIENCE BUILDING SECOND FLOOR 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - 1. Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressorlockout protection for internal or external overload.
    - b. Low pressure protection.
    - C. High pressure protection (high pressure switch or internal).
    - d. Compressor reverse rotation protection.
    - e Loss of charge protection.
    - f. Low suction superheat protection.
    - Short cycle protection. g.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

2.08	3. O	pera	tina	Cha	racte	ristics
			••••		. ~~.~	

A.	The capacity of the condensing unit shall meet or exceed Btuh (kW) at a suction temperature of F ( C).
	The power consumption at full load shall not exceedBtuh (kW).
B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh(kW)orgreaterat conditions ofcfm(L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF (C) dry bulb, and air entering the condensing unit atF (C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
	ctrical Requirements:
A.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal
	block.

#### 2.10. Special Features:

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTMD3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - Navigator module shall be available as field-installed accessory for all units.

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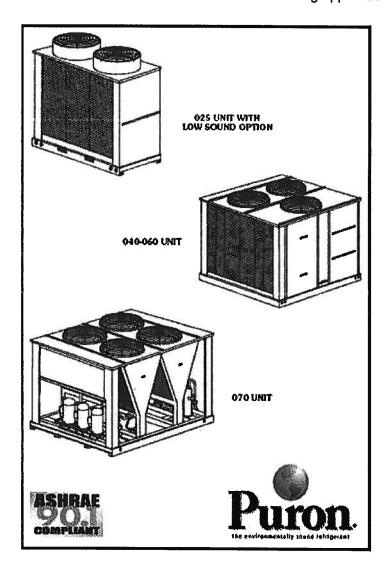
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- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

# **20SCIENCE BUILDING THIRD FLOOR 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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# **20SCIENCE BUILDING THIRD FLOOR 112321**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	38AUD
Unit Size:	
Voltage:	
Condenser Coil:	Cu/Cu
No. of Stages:	

V-Ph-Hz

#### System Parameter

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2	
Compressor Type:	Scroll	
Std. Capacity Steps:	50, 100	
Std. Min. Outdoor Temp(Cooling):	35.0	۰F
No. of Outdoor fans:	4	

**Outdoor Unit Dimensions and Weight** 

Unit Length:	7'	2.1"	
Unit Width:	5'	7.1"	
Unit Height:	4'	2.4"	
Unit Shipping Weight:		978	lb
Unit Operating Weight:		978	lb

### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		Guariti
38AUDA25A0E5-0A0A0		1
	Base Unit	<del></del>
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1 1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	1 2

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# Unit Report For 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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KM680004	Sight Glass for Outdoor Unit	2
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

# Performance Summary For 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:

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System:	38AUD025	
No. of Stages:	Dual Stage	
System Quantity:	1	
Altitude:		ft
EER @ ARI Conditions:	13.6	••
Suction Line Loss:	1.4	°F
Condensing unit is rated in accordance with ARI 365.		·

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	3/8	1 1/8
26 - 50	1/2	1 1/8
51 - 75	5/8	1 3/8
76 - 100	5/8	1 3/8
101 - 125	5/8	1 3/8
126 - 150	5/8	1 3/8
151 - 175	5/8	1 3/8
176 - 200	3/4	1 3/8

### Refer to the 38AU installation instructions for installation specific line sizing guidance

#### **Outdoor Unit Parameters**

Unit Quantity:	
PartNumber: 38AUDA25A0E5-0A0A0	
Unit Model: 38AUD	
Unit Size: 20 Tons	
Condenser Coil: Cu/Cu	
Voltage: 208-3-60	V-Ph-Hz
Total Clg Cap.(Gross): 240.0 SDT: 119.2	MBH
SDT:	°F
Clg Ent Air DB: 95.0	°F
Saturated Suction Temp: 45.0	°F

#### **Outdoor Electrical Data**

Unit Voltage: 208-3-60	V-Ph-Hz
Unit MCA:	Amps
Unit MOCP:	Amps
Total Compressor Power of Unit:	kW
Voltage Range Min:187	V
Voltage Range Max: 253	v
Compressor RLA: 30.1	•
Compressor LRA: 225	į
Compressor Quantity: 2	·
Fan Motors Qtv:	
Fan Motor FLA:	Amne
Notice: Outdoor unit elect, data is based on 208.3-60	701103

Notice: Outdoor unit elect, data is based on 208-3-60

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

#### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

#### **FIOPS and Accessories Information**

FIOPS	Qu	antity
Accessories	Qu	antity
Liquid Line Solenoid Valve for Outdoor Unit	2	
Liquid Line Solenoid Valve for Outdoor Unit		
Sight Glass for Outdoor Unit	2	

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# Performance Summary For 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:

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Thermostat for Outdoor Unit	1	

A-Weighted	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
Total Level	85.2	NA NA
63Hz	64.8	NA
125Hz	68.9	NA
250Hz	71.4	NA
500Hz	82.8	NA
1000Hz	79.0	NA
2000Hz	74.2	NA
4000Hz	69.0	NA
8000Hz	61.9	NA
Sound Message	Sound for AUD025	

#### **Acoustic Notes:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment. 2. The acoustic center of the unit is located at the geometric center of the unit.

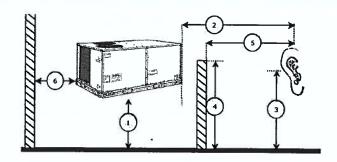
### Performance Summary For 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:		
6. Horizontal dist, from unit to obstruction:	0.0	4



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

### **Acoustic Summary For 20SCIENCE BUILDING THIRD FLOOR 112321**

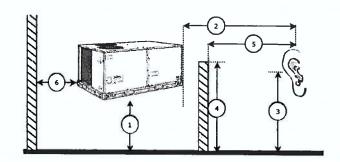
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name: 20SCIENCE BUILDING	G THIRD FLOOR 112321
Unit Model:	38AUD
Unit Size:	
System Type:	Dx Cooling Only
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:		
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6. Horizontal distance from unit to obstruction:		

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.
- 3. All estimated sound power levels, dB re 1 Picowatt should not be guaranteed or certified as being the actual sound power levels.

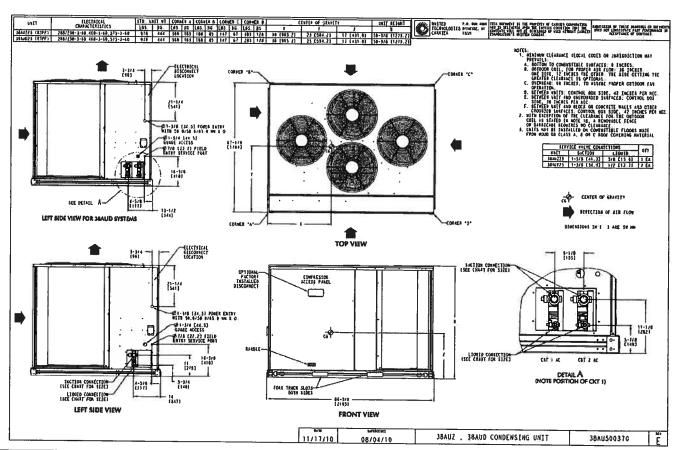
#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

# Certified Drawing for 20SCIENCE BUILDING THIRD FLOOR 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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12/01/2021



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### **Guide Specification for 20SCIENCE BUILDING THIRD FLOOR 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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### GUIDE SPECIFICATIONS - 38AUDA 25A0E5-0A0A0

### Commercial Air-Cooled Condensing Units HVAC Guide Specifications

Size: 25

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTMB117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- $1.06.\ Unit shall be manufactured in a facility registered to ISO 9001:2000\ manufacturing\ quality\ standard.$

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER.)

#### Part 2: Products

### EQUIPMENT

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fan blades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

#### 2.04. Compressor:

A. Compressor shall be of the hermetic scroll type.

### **Guide Specification for 20SCIENCE BUILDING THIRD FLOOR 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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- B. Compressorshall be mounted on rubber grommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crank case heater.
- E. Compressorshall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

#### 2.05. Condenser Coils:

- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - 2. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
  - 3. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
- B. Optional Copper-fin evaporator and condenser coils:
  - 1. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
  - 2. Galvanized steel tube sheets shall not be acceptable.
  - 3. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

#### 2.06. Refrigeration Components:

A. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressoroil, and a partial holding charge of refrigerant.

#### 2.07. Controls and Safeties:

- A. Minimum control functions shall include:
  - 1. Control wire terminal blocks.
  - 2. Compressor lockout on auto-reset safety until reset from thermostat.
  - 3. Each unit shall utilize the Comfort Alertt Diagnostic Board that provides:
    - a System Pressure Trip fault code indication
    - b. Short Cycling fault code indication
    - c. Locked Rotorfault code indication
    - d. Open Circuit fault code indication
    - e. Reverse Phase 3 fault code indication
    - f. Welded Contactor fault code indication
    - g. Low Voltage fault code indication
    - h. Anti-short cycle protection
    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
  - 2. Lowpressure cutout.

2.08. C	Operat	ting Cl	harac	teristic	S
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	. Ор	orating orial actions too.
	Α.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power consumption at full load shall not exceedkW.
	B.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
		Btuh or greater at conditions ofcfm entering-air temperature at the evaporator atFwet bulb andFdry
		bulb, and air entering the condensing unit atF.
	C.	The system shall have an EER of Btuh/Watt or greater at standard AHRI conditions.
		Standard unit shall be capable to operate up to 125_F (52_C) and down to 40_F (4_C)
2.09		ectrical Requirements:
	A.	Nominal unit electrical characteristics shall bev, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation

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Guide Specification for 20SCIENCE BUILDING THIRD FLOOR 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:16PM

within voltage limits	of	vto	٧
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- B. Unit electrical power shall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.

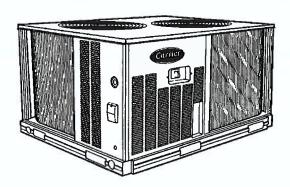
#### 2.10. Special Features:

- A. Thermostat Controls:
  - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
  - $2. \quad \text{Commercial Electronic Thermostat shall have 7-day time clock, auto-change over, multi-stage capability, and large}\\$ LCD (liquid crystal display) temperature display.

### COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

#### AIR-COOLED COOLING ONLY CONDENSING UNITS with PURON® REFRIGERANT

These light commercial air-cooled cooling only condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.













Manufactured in facility registered to ISO 9001:2008 quality standard

#### **BASE UNIT STANDARD FEATURES:**

- Puron® (R-410A) HFC refrigerant partial charge
- Single circuit units (38AUZ) are available in 1 or 2 stage cooling
- Two circuit units (38AUD) are available in 2 stage cooling.
- All models utilize round tube plate fin coils.
- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- · High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - · Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

### 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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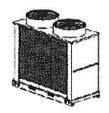
### 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

# Unit Report For 10EGLISH COMMUNICATION BULDING CLASSROOM 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:	38APD	
Unit Size:		
Voltage:	208-3-60	V-Ph-Hz
No. of Circuits:	Two Circuits	

#### **System Parameter**

System Quantity:1	
Refrigerant Type:PURON	
Compressor Quantity: 1 (Circ A), 1 (Circ B)	
Compressor Type: Scroll	
Std. Capacity Steps: 50, 100	
Std. Min. Outdoor Temp(Cooling): 32.0	°F
No. of Outdoor fans:2	

#### **Outdoor Unit Dimensions and Weight**

Unit Length:		
Unit Width:	3' 4.3"	
Unit Height:	6' 1.1"	
Unit Operating Weight:		lb
, , ,		

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD03056-3009J		1
	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
30GT-911062	Navigator for Outdoor Unit	1
33CS2PP2S-03	Thermostat for Outdoor Unit	1

# Performance Summary For 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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System:	38APD030
No. of Stages:	Dual Stage
System Quantity:	1
Altitude:	600.0 f
EER @ ARI Conditions:	10.8
EER @ Ambient Conditions:	10.0
IPLV:	12.8
Capacity Split Percentage (A ckt/B ckt):	50/50 %
Suction Line Loss:	2.0 °
Condensing unit is rated in accordance with ARI 365.	

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 1/8 (A), 1 1/8 (B)
26 - 50	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
51 - 75	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
76 - 100	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
101 - 125	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
126 - 150	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
176 - 200	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 5/8 (B)
51 - 75	5/8 (A), 5/8 (B)
76 - 100	5/8 (A), 5/8 (B)
101 - 125	5/8 (A), 5/8 (B)
126 - 150	5/8 (A), 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 1/8 (A), 1 1/8 (B)
26 - 50	1 3/8 (A), 1 3/8 (B)
51 - 75	1 3/8 (A), 1 3/8 (B)
76 - 100	1 3/8 (A), 1 3/8 (B)
101 - 125	1 5/8 (A), 1 5/8 (B)
126 - 150	1 5/8 (A), 1 5/8 (B)
151 - 175	1 5/8 (A), 1 5/8 (B)
176 - 200	1 5/8 (A), 1 5/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	1	
PartNumber:	38APD03056-3009J	
	38APD	
Unit Size:	20 Tone	
Voltage:		-Hz

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# Performance Summary For 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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Total Clg Cap.(Gross): 361.	7 MBH
SDT:	≥ °F
SDT2:	2 °F
SCT:	· ·F
SCT2: 129.	i ∘F
Clg Ent Air DB: 95.	) °F
Saturated Suction Temp: 45.	) °F

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-Hz
Unit MCA:	138.8	Amps
Unit MOCP:	175.0	Amps
Compressor Power:	32.50	
Voltage Range Min:	187	V
Voltage Range Max:	254	v
Compressor RLA:	55.8/55.8	•
Compressor LRA:	340/340	
Compressor Quantity:	1 (Circ A), 1 (Circ B)	
Fan Motors Qty:	2	
Fan Motor FLA:	NA	Amns
Notice: Outdoor unit elect, data is based on 208-3-60		7111103

#### **FIOPS and Accessories Information**

FIOPS	Quantity
Standard Line Length, RTPF	1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Navigator for Outdoor Unit	1
Thermostat for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level:

...94.9 dbA

#### **Acoustic Notes:**

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

# Performance Summary For 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

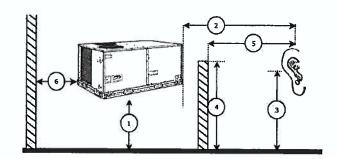
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

Prepared By: BERNARD LLARENAS

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:		
3. Receiver height above ground:		
4. Height of obstruction:		
5. Horizontal dist. from obstruction to receiver:		ft
6. Horizontal dist, from unit to obstruction:	0.0	



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Overa
Sound Power Levels at Unit's Acoustic Center (Lw), dB	77	96	93	92	93	90	87	84	80	101
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	37	70	77	84	89	90	88	85	79	95
Sound Press. Levels at Dist. Specified above (Lp), dB	52	72	69	68	68	66	62	59	56	76
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	13	46	53	59	65	66	64	60	55	71

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Acoustic Summary For 10EGLISH COMMUNICATION BULDING CLASSROOM 112221

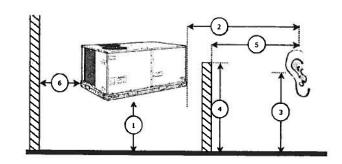
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters:**

Tag Name::10EGLISH COMMUNICATION BULDING CLASSROOM 112221

LASSKOOW 112221	
Unit Model:	
Unit Size:	
System Type:	
Refrigerant Type:	PUROŃ
Compressor Quantity:	_1 (Circ A), 1 (Circ B)
Compressor Type:	



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:		
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver	0.0	ft
6. Horizontal distance from unit to obstruction:		

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Ove
Sound Power Levels at Unit's Acoustic Center (Lw), dB	77	96	93	92	93	90	87	84	80	101
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	37	70	77	84	89	90	88	85	79	95
Sound Press. Levels at Dist. Specified above (Lp), dB	52	72	69	68	68	66	62	59	56	76
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	13	46	53	59	65	66	64	60	55	71

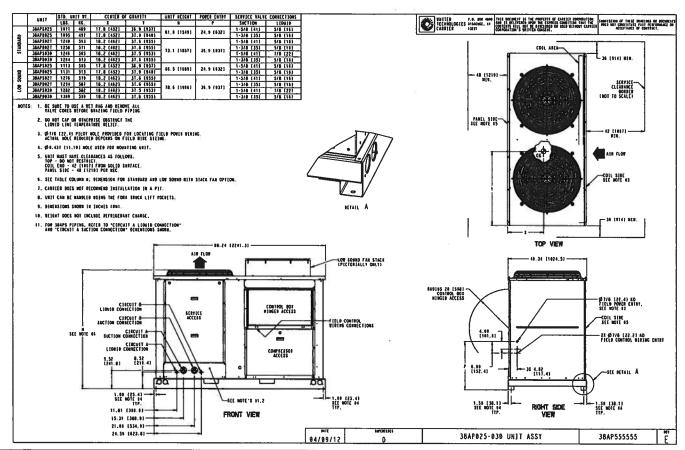
Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

# Certified Drawing for 10EGLISH COMMUNICATION BULDING CLASSROOM 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### GUIDE SPECIFICATIONS - 38APD03056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 030

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

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- A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.
- B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenserfans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. CondenserCoils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and
    testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting
    diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows
    all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day,
    temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory
    Navigator<sup>TM</sup> display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum offtime (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.

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- 10. Cycle condenser fans to maintain proper head pressure control.
- 11. Capacity control with staging compressors.
- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Low pressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressor reverse rotation protection.
    - e. Loss of charge protection.
    - f. Low suction superheat protection.
    - g. Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

0.00	<b>~</b>	~.	
2.08.	Operating	Charac	tenstics

A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF (C).
	The power consumption at full load shall not exceedBtuh (kW).
В.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh(kW)orgreaterat conditions ofcfm(L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF(C) dry bulb, and air entering the condensing unit atF(C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
. Ele	ctricalRequirements:
A.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal
	block.

#### 2.10. Special Features:

2.09

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.

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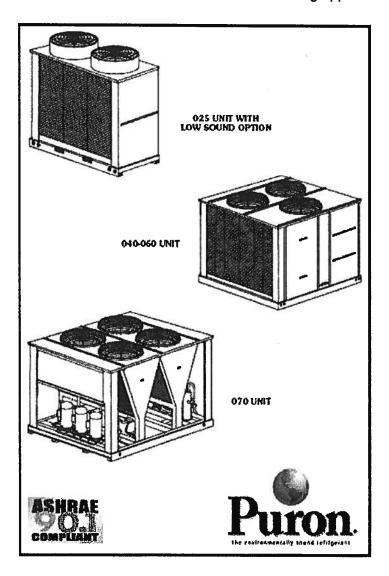
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- 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
- 8. Navigator module shall have raised surface buttons with positive tactile response.
- 9. Navigator module shall be available as field-installed accessory for all units.
- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



#### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

### **15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221**

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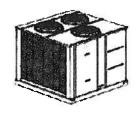
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### **15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

# Unit Report For 15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS 02:16F

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:	38APD	
Unit Size:		
Voltage:	208-3-60	V-Ph-Hz
No. of Circuits:		

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Compressor Type:		
Std. Capacity Steps:	23, 50, 73, 100	
Std. Min. Outdoor Temp(C	ooling):25.0	۴
No. of Outdoor fans:		

#### **Outdoor Unit Dimensions and Weight**

Unit Length	7 8.1	
Unit Width:	7' 4.2"	
Unit Height:		
Unit Operating Weight:		lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD05056-3009J		1
	Base Unit	<u> </u>
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories	W The state of the	
33CS2PP2S-03	Thermostat for Outdoor Unit	1
30GT-911062	Navigator for Outdoor Unit	1

### Performance Summary For 15COMPUTER CENTER OIT BUILDING FIRST **FLOOR 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System: 38APD05	0
No. of Stages:Dual Stag	e
System Quantity:	1
Altitude:600	0 ft
EER @ ARI Conditions: 11.	1
EER @ Ambient Conditions:10.	2
IPLV:	9
Capacity Split Percentage (A ckt/B ckt): 48/5	2 %
Suction Line Loss: 2	0 °F
Condensing unit is rated in accordance with ARI 365.	

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
26 - 50	5/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
51 - 75	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 7/8 (B)	1 5/8 (A), 2 1/8 (B)
101 - 125	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 7/8 (B)
51 - 75	7/8 (A), 7/8 (B)
76 - 100	7/8 (A), 7/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 3/8 (A), 1 3/8 (B)
26 - 50	1 5/8 (A), 1 5/8 (B)
51 - 75	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 2 1/8 (B)
101 - 125	2 1/8 (A), 2 1/8 (B)
126 - 150	2 1/8 (A), 2 1/8 (B)
151 - 175	2 1/8 (A), 2 1/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	1	
PartNumber:	38APD05056-3009J	
Unit Model:	204 DD	
Unit Size:		
Voltage:		V-Ph-H:

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### Performance Summary For 15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221

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Total Clg Cap.(Gross): 576	.8	мвн
SDT:	.9	°F
SDT2:131	.2	°F
SCT:	.8	°F
SCT2:	.1	°F
Clg Ent Air DB: 95	.0	°F
Saturated Suction Temp:45	.0	°F

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-Hz
Unit MCA:	231.4	Amps
Unit MOCP:	250.0	Amps
Compressor Power:	52.30	
Voltage Range Min.		V
Voltage Range Max:	254	V
Compressor RLA:	48.1/51.3	
Compressor LRA:		
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Fan Motors Qty:	3	
Fan Motor FLA:	NA	Amps
Notice: Outdoor unit elect, data is based on 208-3-60		•

#### **FIOPS and Accessories Information**

FIOPS	Quantity			
Standard Line Length, RTPF	<u> </u>			
Export packaging, (Skid + Bag)	1			
Scrolling Marquee, EMM, BACnet Communication	1			
Accessories	Quantity			
Thermostat for Outdoor Unit	1			
Navigator for Outdoor Unit	1			

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level:

96.7 dbA

#### **Acoustic Notes:**

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

# Performance Summary For 15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221

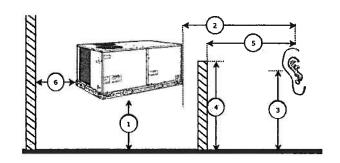
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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:		
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:		ft
5. Horizontal dist. from obstruction to receiver:		
6. Horizontal dist_from unit to obstruction:	0.0	ft



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Overa
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	92	88	85	82	103
A-Wgted Sound Power Levels at Unit's Acoustic Center	39	72	79	86	91	92	90	86	81	97
(LwA), dBA										
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	78
A-Wgted Sound Press. Levels at Dist. Specified above	14	47	54	61	66	66	64	61	56	72
(LpA), dBA				-						

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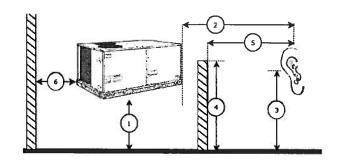
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#### **Outdoor Unit Parameters:**

Tag Name: 15COMPUTER CENTER OIT BUILDING FIRST FLOOR 112221

LOOK 112221	***************************************
Unit Model:	38APD
	50 Tons
System Type:	Dx Cooling Only
	PURON
	2 (Circ A), 2 (Circ B)
Compressor Type:	Scroll



#### **Advanced Accoustics Parameters**

1.0 f
20.0 f
5.7 f
0.0 f
er:0.0 f
0.0 f

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Ove
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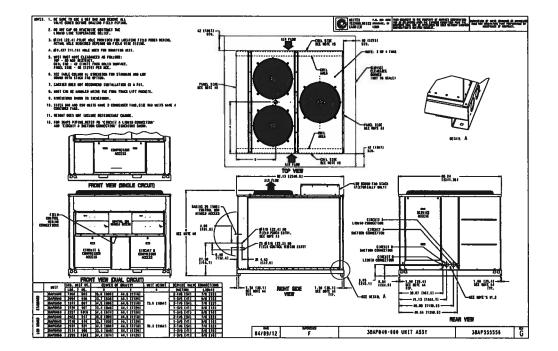
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#### GUIDE SPECIFICATIONS - 38APD05056-3009J

HVAC Guide Specifications
Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 050

#### Part 1: General

#### **SYSTEM DESCRIPTION**

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001: 2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

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- A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.
- B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenserfans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressor oil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator™ display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.

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- 10. Cycle condenser fans to maintain proper head pressure control.
- 11. Capacity control with staging compressors.
- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - Solid-state compressor lockout to provide optional reset capability at the space thermostat if any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Low pressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - Compressor reverse rotation protection.
    - Loss of charge protection.
    - Low suction superheat protection.
    - Short cycle protection. g.
    - h. Suction and discharge pressure transducers.
    - Circuit breakers or fuses for short circuit protection of compressors.

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Α.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF (C).
	The power consumption at full load shall not exceedBtuh (kW).
B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh (kW) or greater at conditions ofcfm (L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF(C) dry bulb, and air entering the condensing unit atF(C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
Ele	ctricalRequirements:
Α.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal

#### 2.10. Special Features:

2.09.

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portuguese language.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.

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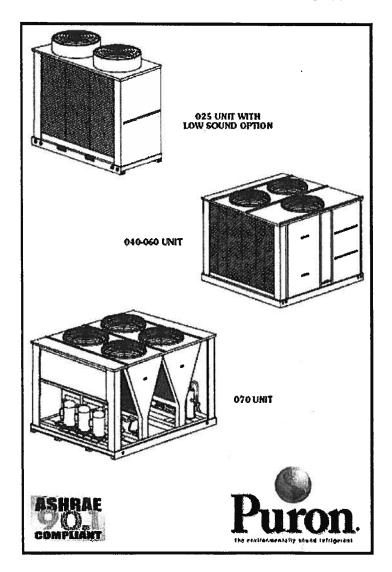
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- 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
- 8. Navigator module shall have raised surface buttons with positive tactile response.
- 9. Navigator module shall be available as field-installed accessory for all units.
- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



#### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

## **LECTURE HALL AUDITORIUM 112321**

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## **LECTURE HALL AUDITORIUM 112321**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## **Unit Report For LECTURE HALL AUDITORIUM 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1
Unit Model:	38AUD
Unit Size:	20 Tons
Voltage:	208-3-60
Condenser Coil:	
No of Stages:	Dual Stage

V-Ph-Hz

#### **System Parameter**

System Quantity:	1	
Refrigerant Type:		
Compressor Quantity:	2	
Compressor Type:	Scroll	
Std. Capacity Steps:	50, 100	
Std. Min. Outdoor Temp(Cooling):	35.0	°F
No. of Outdoor fans:	4	

**Outdoor Unit Dimensions and Weight** 

Unit Length:	7'	2.1"	
Unit Width:			
Unit Height:	_4'	2.4"	
Unit Shipping Weight:			ib
Unit Operating Weight:			

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38AUDA25A0E5-0A0A0		1
	Base Unit	
	Cu/Cu Condensing Coil	1
	Standard Refrigerant Options	1
	Service Options - None	1
	Electrical Options - None	1
	Packaging Options - Standard	1
	Standard Electrical Mechanical Controls	1
	Refrig Circ/Compressor Staging - Two Circuits/ Dual Stage	1
Accessories		
EF680035	Liquid Line Solenoid Valve for Outdoor Unit	2
EF680037	Liquid Line Solenoid Valve for Outdoor Unit	2

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Unit Report For LECTURE HALL AUDITORIUM 112321
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KM680004	Sight Glass for Outdoor Unit	2
33CS2PP2S-03	Thermostat for Outdoor Unit	1

The 38AUZ/AUD are furnished with filter drier which is factory provided (field installed). Additional filter driers can be purchased separately through RCD (Replacement Components Division). See the Product Library for Replacement Filter Drier Information for more information.

# Performance Summary For LECTURE HALL AUDITORIUM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System:	38AUD025
No. of Stages:	Dual Stage
System Quantity:	1
Altitude:	600.0 ft
EER @ ARI Conditions:	13.6
Suction Line Loss:	1.4 °F
Condensing unit is rated in accordance with ARI 365.	

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	3/8	1 1/8
26 - 50	1/2	1 1/8
51 - 75	5/8	1 3/8
76 - 100	5/8	1 3/8
101 - 125	5/8	1 3/8
126 - 150	5/8	1 3/8
151 - 175	5/8	1 3/8
176 - 200	3/4	1 3/8

## Refer to the 38AU installation instructions for installation specific line sizing guidance

#### **Outdoor Unit Parameters**

Unit Quantity:1	
PartNumber:38AUDA25A0E5-0A0A0	
Unit Model:38AUD	
Unit Size: 20 Tons	
Condenser Coil: Cu/Cu	
Voltage:	V-Ph-Hz
Total Clg Cap.(Gross):240.0	MBH
SDT:119.2	°F
Clg Ent Air DB:95.0	°F
Saturated Suction Temp:45.0	°F

#### **Outdoor Electrical Data**

Unit Voltage: 208-3-6	0 V-Ph-Hz
Unit MCA:73.	7 Amps
Unit MOCP:100.	0 Amps
Total Compressor Power of Unit:16.7	0 kW
Voltage Range Min:18	7 V
Voltage Range Max:25	3 V
Compressor RLA: 30	1
Compressor LRA:	5
Compressor Quantity:	2
Fan Motors Qty:	
Fan Motor FLA:1	5 Amps
Notice: Outdoor unit elect, data is based on 208-3-60	•

Notice: Outdoor unit elect, data is based on 208-3-60

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

#### **Acoustics**

Sound Power Levels, db re 10E-12 Watts

#### **FIOPS and Accessories Information**

FIOPS	Quantity	
Accessories	Quantity	
Liquid Line Solenoid Valve for Outdoor Unit	2	
Liquid Line Solenoid Valve for Outdoor Unit	2	
Sight Glass for Outdoor Unit	2	

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# Performance Summary For LECTURE HALL AUDITORIUM 112321 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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Thermostat for Outdoor Unit	1

A-Weighted	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
Total Level	85.2	NA
63Hz	64.8	NA
125Hz	68.9	NA
250Hz	71.4	NA
500Hz	82.8	NA
1000Hz	79.0	NA
2000Hz	74.2	NA
4000Hz	69.0	NA
8000Hz	61.9	NA
Sound Message	Sound for AUD025	

#### **Acoustic Notes:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment. 2. The acoustic center of the unit is located at the geometric center of the unit.

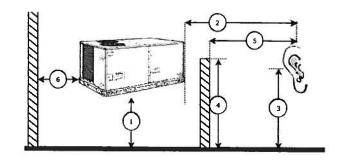
## Performance Summary For LECTURE HALL AUDITORIUM 112321

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Advanced Acoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6. Horizontal dist, from unit to obstruction:		



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## **Acoustic Summary For LECTURE HALL AUDITORIUM 112321**

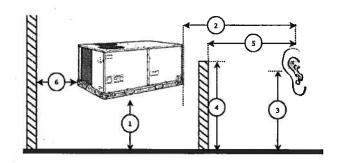
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Outdoor Unit Parameters:**

ataoo:	
Tag Name:LECTURE HALL A	AUDITORIUM 112321
Unit Model:	38AUD
Unit Size:	20 Tons
System Type:	Dx Cooling Only
Refrigerant Type:	PURON
Compressor Quantity:	2
Compressor Type:	



#### **Advanced Accoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:	0.0	ft
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	91	85	80	86	79	73	68	63	93
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	65	69	71	83	79	74	69	62	85
Sound Press. Levels at Dist. Specified above (Lp), dB	66	60	55	61	54	48	43	38	69
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	40	44	47	58	54	50	44	37	61

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

#### **Acoustic Note:**

- 1. 38AUZ/D/Q units sound ratings are in accordance with AHRI 270-2008 Sound Rating of Outdoor Unitary Equipment.
- 2. The acoustic center of the unit is located at the geometric center of the unit.
- 3. All estimated sound power levels, dB re 1 Picowatt should not be guaranteed or certified as being the actual sound power levels.

#### **Acoustic Note:**

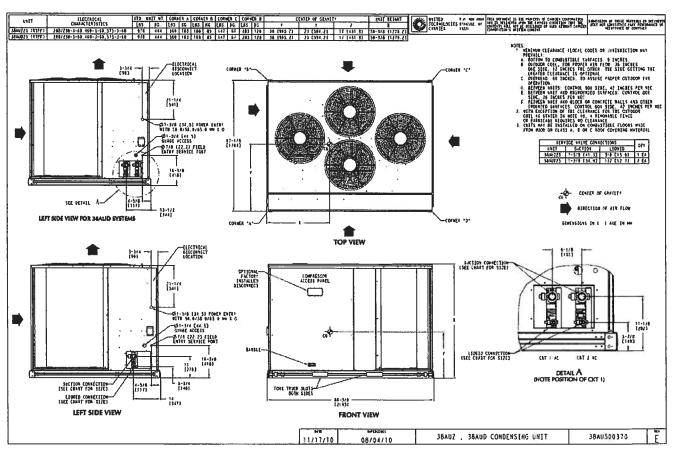
- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## Certified Drawing for LECTURE HALL AUDITORIUM 112321

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## **Guide Specification for LECTURE HALL AUDITORIUM 112321**

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## GUIDE SPECIFICATIONS - 38AUDA 25A0E5-0A0A0

#### Commercial Air-Cooled Condensing Units HVAC Guide Specifications

**Size: 25** 

#### Part 1: General

#### SYSTEMDESCRIPTION

1.01. Outdoor-mounted, air-cooled condensing unit suitable for on-the-ground or rooftop installation. Unit shall consist of a hermetic scroll air-conditioning compressor(s) assembly, an air-cooled coil, propeller-type condenser fans, and a control box. Unit shall discharge supply air upward as shown on contract drawings. Unit shall be used in a refrigeration circuit matched with a packaged air-handling unit.

#### **QUALITY ASSURANCE**

- 1.01. Unit shall be rated in accordance with AHRI Standard 360.
- 1.02. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- 1.03. Unit shall be constructed in accordance with UL 1995 standard and shall carry the UL and UL, Canada label.
- 1.04. Unit cabinet shall be capable of withstanding 500-hour salt spray exposure per ASTM B117 (scribed specimen).
- 1.05. Air-cooled condenser coils for hermetic scroll compressor units (38AUZ) and 38AUD shall be leak tested at 150 psig, and pressure tested at 650 psig.
- 1.06. Unit shall be manufactured in a facility registered to ISO 9001:2000 manufacturing quality standard.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

## WARRANTY (FOR INCLUSION BYSPECIFYING ENGINEER.)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory-assembled, single piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressor, holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel, bonderized and coated with a prepainted baked enamel finish.
- B. A heavy-gauge roll-formed perimeter base rail with forklift slots and lifting holes shall be provided to facilitate rigging.

#### 2.03. CondenserFans:

- A. Condenser fans shall be direct driven, propeller type, discharging air vertically upward.
- B. Fanblades shall be balanced.
- C. Condenser fan discharge openings shall be equipped with PVC-coated steel wire safety guards.
- D. Condenserfan and motor shaft shall be corrosion resistant.

#### 2.04. Compressor.

A. Compressor shall be of the hermetic scroll type.

## **Guide Specification for LECTURE HALL AUDITORIUM 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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- B. Compressorshall be mounted on rubber grommets.
- C. Compressors shall include overload protection.
- D. Compressors shall be equipped with a crankcase heater.
- E. Compressor shall be equipped with internal high pressure and high temperature protection.
- F. 38AUZ\*16 and 25 sizes shall use two scroll compressors manifold together.

#### 2.05. Condenser Coils:

- A. Standard Aluminum fin Copper Tube Coils:
  - 1. Standard evaporator and condenser coils shall have aluminum lanced plate fins mechanically bonded to seamless internally grooved copper tubes with all joints brazed.
  - 2. Evaporator coils shall be leak tested to 150 psig, pressure tested to 450 psig, and qualified to UL 1995 burst test at 1775 psig.
  - 3. Condenser coils shall be leak tested to 150 psig, pressure tested to 650 psig, and qualified to UL 1995 burst test at 1980 psig.
- B. Optional Copper-fin evaporator and condenser coils:
  - 1. Shall be constructed of copper fins mechanically bonded to copper tubes and copper tube sheets.
  - 2. Galvanized steel tube sheets shall not be acceptable.
  - 3. A polymer strip shall prevent coil assembly from contacting the sheet metal coil pan to minimize potential for galvanic corrosion between coil and pan.

#### 2.06. Refrigeration Components:

A. Refrigeration circuit components shall include liquid line service valve, suction line service valve, a full charge of compressor oil, and a partial holding charge of refrigerant.

#### 2.07. Controls and Safeties:

- A. Minimum control functions shall include:
  - 1. Control wire terminal blocks.
  - 2. Compressor lockout on auto-reset safety until reset from thermostat.
  - 3. Each unit shall utilize the Comfort Alertt Diagnostic Board that provides:
    - a System Pressure Trip fault code indication
    - b. Short Cycling fault code indication
    - c. Locked Rotorfault code indication
    - d. Open Circuit fault code indication
    - e. Reverse Phase 3 fault code indication
    - f. Welded Contactorfault code indication
    - g. Low Voltage fault code indication
    - h. Anti-short cycle protection
    - i. Phase reversal protection
- B. Minimum safety devices which are equipped with automatic reset (after resetting first at thermostat), shall include:
  - 1. High discharge pressure cutout.
  - 2. Lowpressure cutout.

2 08	Operating	a Chara	ctorictics:
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	Ob.	oraling or laractoristics.
	Α.	The capacity of the condensing unit shall meet or exceedBtuh at a suction temperature ofF. The power consumption at full load shall not exceedkW.
	B.	The combination of the condensing unit and the evaporator or fan coil unit shall have a total net cooling capacity of
		Btuh or greater at conditions ofcfm entering-air temperature at the evaporator atF wet bulb andF dry
		bulb, and air entering the condensing unit atF.
	C.	The system shall have an EER ofBtuh/Wattorgreater at standard AHRI conditions.
	D.	Standard unit shall be capable to operate up to 125_F (52_C) and down to 40_F (4_C)
2.09.	Ele	ectrical Requirements:
	A.	Nominal unit electrical characteristics shall bev, 3-ph, 60 Hz. The unit shall be capable of satisfactory operation

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## **Guide Specification for LECTURE HALL AUDITORIUM 112321**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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within voltage limits of \_\_\_\_\_v to \_\_\_\_v.

- B. Unit electrical power shall be single-point connection.
- C. Unit control circuit shall contain a 24-v transformer for unit control.

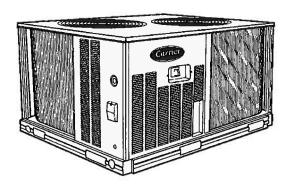
#### 2.10. Special Features:

- A. Thermostat Controls:
  - 1. Programmable multi-stage thermostat shall have 7-day clock, holiday scheduling, large backlit display, remote sensor capability, and Title 24 compliance.
  - 2. Commercial Electronic Thermostat shall have 7-day time clock, auto-changeover, multi-stage capability, and large LCD (liquid crystal display) temperature display.

## COMMERCIAL SPLIT SYSTEMS 38AUZ 6 to 20 Ton 38AUD 10 to 20 Ton

## AIR-COOLED COOLING ONLY CONDENSING UNITS with PURON® REFRIGERANT

These light commercial air-cooled cooling only condensing units are easily connected by refrigerant lines and low voltage control wiring to matching Carrier packaged air-handling units or other suitable evaporator units. They are ideal for new construction or renovation applications where quality and performance are required.













Manufactured in facility registered to ISO 9001:2008 quality standard

#### **BASE UNIT STANDARD FEATURES:**

- Puron® (R-410A) HFC refrigerant partial charge
- Single circuit units (38AUZ) are available in 1 or 2 stage cooling
- Two circuit units (38AUD) are available in 2 stage cooling
- All models utilize round tube plate fin coils.
- Standard one year parts warranty and five year compressor parts warranty. Extended 2-5 year parts and 1-5 labor coverage are available.
- Cooling operating range up to 125°F (52°C) and down to 35°F (2°C) as standard.
- Available Motormaster® I control for cooling operation down to -20°F (-29°C)
- Fully hermetic scroll compressor with crankcase heater
- New terminal board facilitating simple safety circuit troubleshooting and simplified control box arrangement. 24-volt 75va control system
- · High and low pressure switches.

- Comfort Alert™ Diagnostic Board:
  - LED Go-No-Go and fault code
  - Built in time guard anti-short cycle
  - Phase protection
  - Fault code retention logic
  - Low voltage compressor contactor protector
- UL and UL, Canada apply to standard units; 575-volt units UL, Canada only.
- Full perimeter base rails with built-in rigging adapters and fork truck slots
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- · Direct drive permanently lubricated condenser fan motors
- All units factory run tested
- Compressors mounted on independent vibration isolators

## **HSS BUILDING 50T 112221**

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## **HSS BUILDING 50T 112221**

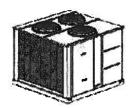
Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## Unit Report For HSS BUILDING 50T 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:		
Unit Size:		
Voltage:	208-3-60 V-Ph-Hz	2
	Two Circuits	

**System Parameter** 

System Quantity:	1	
Refrigerant Type:	PURON	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Compressor Type:	Scroll	
Std. Capacity Steps:	23, 50, 73, 100	
Std. Min. Outdoor Temp(C		°F
No. of Outdoor fans:		

**Outdoor Unit Dimensions and Weight** 

Unit Length:	7' 8.1"	
Unit Width:		
Unit Height:	6' 1.0"	
Unit Operating Weight:		lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD05056-3009J		1
	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
33CS2PP2S-03	Thermostat for Outdoor Unit	. 1
30GT-911062	Navigator for Outdoor Unit	1

# Performance Summary For HSS BUILDING 50T 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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System:	38APD050	
No. of Stages:	Dual Stage	
System Quantity:		
Altitude:	600.0	ft
EER @ ARI Conditions:	11.1	••
EER @ Ambient Conditions:	10.2	
IPLV:	14.9	
Capacity Split Percentage (A ckt/B ckt):	48/52	%
Suction Line Loss:	2.0	°F
Condensing unit is rated in accordance with ARI 365.		-

#### **Typical Liquid and Suction Line Sizing**

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
26 - 50	5/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
51 - 75	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
76 - 100	7/8 (A), 7/8 (B)	1 5/8 (A), 2 1/8 (B)
101 - 125	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
126 - 150	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
151 - 175	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)
176 - 200	7/8 (A), 7/8 (B)	2 1/8 (A), 2 1/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 7/8 (B)
51 - 75	7/8 (A), 7/8 (B)
76 - 100	7/8 (A), 7/8 (B)
101 - 125	7/8 (A), 7/8 (B)
126 - 150	7/8 (A), 7/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	Suction Line Size
0 - 25	1 3/8 (A), 1 3/8 (B)
26 - 50	1 5/8 (A), 1 5/8 (B)
51 - 75	1 5/8 (A), 1 5/8 (B)
76 - 100	1 5/8 (A), 2 1/8 (B)
101 - 125	2 1/8 (A), 2 1/8 (B)
126 - 150	2 1/8 (A), 2 1/8 (B)
151 - 175	2 1/8 (A), 2 1/8 (B)
176 - 200	2 1/8 (A), 2 1/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	<u> </u>	
PartNumber:	38APD05056-3009J	
Unit Model:	204 DD	
Unit Size:	50 Tons	
Voltage:	208-3-60 V-Ph-H;	Z
Total Clg Cap.(Gross):	576.8 MBH	

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## Performance Summary For HSS BUILDING 50T 112221

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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SDT:127.9	°F	=
SDT2: 131.2	°F	=
SCT:127.8	°F	=
SCT2: 131.1	°F	=
Clg Ent Air DB: 95.0	°F	=
Saturated Suction Temp: 45.0	°F	=

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-Hz
Unit MCA:	231.4	Amps
Unit MOCP:	250.0	Amps
Compressor Power:	52.30	kW
Voltage Range Min:		V
Voltage Range Max:		V
Compressor RLA:	48.1/51.3	
Compressor LRA:	245/300	
Compressor Quantity:	2 (Circ A), 2 (Circ B)	
Fan Motors Qty:	3	
Fan Motor FLA:		Amps
Notice: Outdoor unit elect. data is based on 208-3-60		•

#### **FIOPS and Accessories Information**

FIOPS	Quantity	
Standard Line Length, RTPF		
Export packaging, (Skid + Bag)	1	
Scrolling Marquee, EMM, BACnet	1	
Communication		
Accessories	Quantity	
Thermostat for Outdoor Unit	1	
Navigator for Outdoor Unit	1	

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level: \_\_\_\_\_\_96.7 dbA

#### **Acoustic Notes:**

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

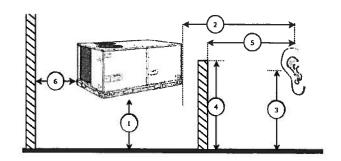
## Performance Summary For HSS BUILDING 50T 112221

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:		ft
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:		
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6. Horizontal dist. from unit to obstruction:	0.0	ft



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Over
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	92	88	85	82	103
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	86	91	92	90	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	78
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	14	47	54	61	66	66	64	61	56	72

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

## **Acoustic Summary For HSS BUILDING 50T 112221**

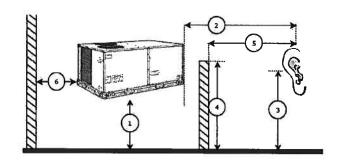
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#### **Outdoor Unit Parameters:**

Tag Name:	HSS BUILDING 50T 112221
Unit Model:	38APD
Unit Size:	
	Dx Cooling Only
	PÜRON
Compressor Quantity:	2 (Circ A), 2 (Circ B)
	Scroll



#### **Advanced Accoustics Parameters**

Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:2		
3. Receiver height above ground:	5.7	ft
4. Height of obstruction:	0.0	ft
5. Horizontal distance from obstruction to receiver:		
6. Horizontal distance from unit to obstruction:	0.0	ft

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Over
Sound Power Levels at Unit's Acoustic Center (Lw), dB	78	98	95	94	95	92	88	85	82	103
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	39	72	79	86	91	92	90	86	81	97
Sound Press. Levels at Dist. Specified above (Lp), dB	53	73	70	69	69	66	63	60	57	78
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#### **Acoustic Note:**

- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- 4. Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

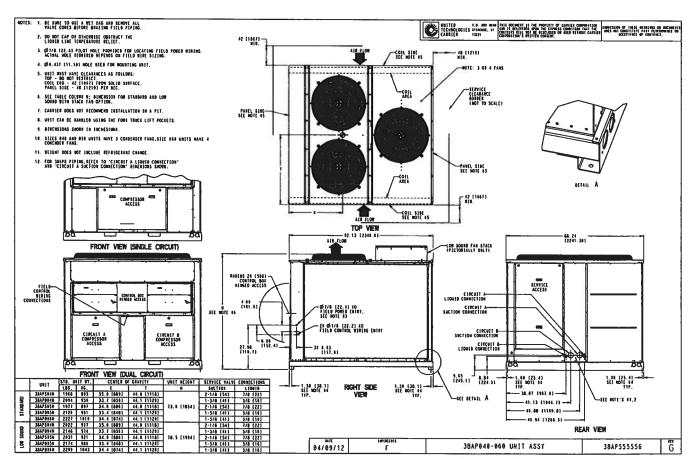
## Certified Drawing for HSS BUILDING 50T 112221

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#### GUIDE SPECIFICATIONS – 38APD05056-3009J

**HVAC Guide Specifications** Commercial Air-Cooled Condensing Units with Puron®Refrigerant (R-410A)

Size: 050

#### Part 1: General

#### SYSTEMDESCRIPTION

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001:2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall withstand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Designpressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations. WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring. piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

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B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenser fans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motorwindings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - 1. Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator<sup>TM</sup> display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - 1. Solid-state compressor lockout to provide optional reset capability at the space thermostatif any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Lowpressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressor reverse rotation protection.
    - e. Loss of charge protection.
    - f. Low suction superheat protection.
    - g. Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

2.08.	Operating	Chara	cteristics:
-------	-----------	-------	-------------

A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF(C).
	The power consumption at full load shall not exceedBtuh (kW).
B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
	Btuh(kW) or greater at conditions ofcfm(L/s) entering-air temperature at the evaporator atF
	(C) wet bulb andF(C) dry bulb, and air entering the condensing unit atF(C).
C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
	ectricalRequirements:
A.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal
	block.

### 2.10. Special Features:

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portugueselanguage.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarm diagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - 9. Navigator module shall be available as field-installed accessory for all units.

Guide Specification for HSS BUILDING 50T 112221
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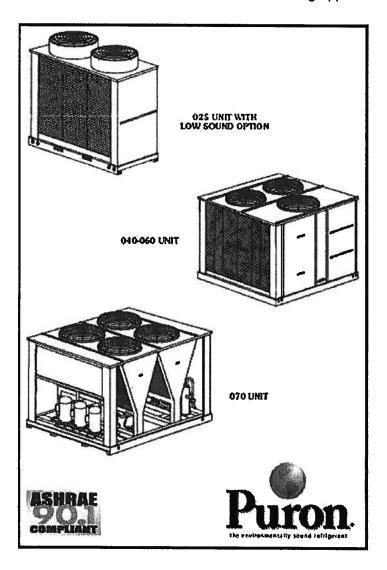
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- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



## 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

### **HSS BUILDING 30T 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

02:16PM

## **HSS BUILDING 30T 112221**

Submittal Cover Sheet
Unit Report
Performance Summary Report
Acoustic Summary
Certified Drawings
Guide Specifications
Feature Sheet

## **Unit Report For HSS BUILDING 30T 112221**

Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP Prepared By: BERNARD LLARENAS

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#### **Outdoor Unit Parameters**

Unit Quantity:	1	
Unit Model:		
Unit Size:	30 Tons	
Voltage:	208-3-60 V-F	h-Hz
No. of Circuits:		

#### **System Parameter**

System Quantity:1	
Refrigerant Type:PURON	
Compressor Quantity:1 (Circ A), 1 (Circ B)	
Compressor Type: Scroll	
Std. Capacity Steps:50, 100	
Std. Min. Outdoor Temp(Cooling): 32.0	°F
No. of Outdoor fans:2	

#### **Outdoor Unit Dimensions and Weight**

Unit Length:	7'	4.2"	
Unit Width:			
Unit Height:	6'	1.1"	
Unit Operating Weight:			lb

#### Warranty Information Outdoor (Note: for US & Canada only)

First Year - Parts Only (Standard)

NOTE: Please see Warranty Catalog 808-218 for explanation of policies and ordering methods.

#### **Ordering Information**

Part Number	Description	Quantity
Base Unit - Outdoor		
38APD03056-3009J		
	Base Unit	
	Standard Line Length, RTPF	1
	Single Point Power, Terminal Block	1
	Export packaging, (Skid + Bag)	1
	Scrolling Marquee, EMM, BACnet Communication	1
	Copper E-Coat Fin / Copper Tube	1
Accessories		
33CS2PP2S-03	Thermostat for Outdoor Unit	1
30GT-911062	Navigator for Outdoor Unit	1

## Performance Summary For HSS BUILDING 30T 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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System:	38APD030	
No. of Stages:	Dual Stage	
System Quantity:	1	
Attitude:	600.0	ft
EER @ ARI Conditions:	10.8	
EER @ Ambient Conditions:	10.0	
IPLV:	12.8	
Capacity Split Percentage (A ckt/B ckt):	50/50	%
Suction Line Loss:	2.0	°F
Condensing unit is rated in accordance with ARI 365.		

#### Typical Liquid and Suction Line Sizing

Pipe Length	Liquid Line Size	Suction Line Size
0 - 25	5/8 (A), 5/8 (B)	1 1/8 (A), 1 1/8 (B)
26 - 50	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
51 - 75	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
76 - 100	5/8 (A), 5/8 (B)	1 3/8 (A), 1 3/8 (B)
101 - 125	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
126 - 150	5/8 (A), 5/8 (B)	1 5/8 (A), 1 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)
176 - 200	7/8 (A), 7/8 (B)	1 5/8 (A), 1 5/8 (B)

Do NOT exceed 200 ft max linear separation or 75 ft vertical liquid lift. Oil management is critical on split systems for compressor reliability. Refrigerant circuit warranty may be void beyond these limits.

#### **Liquid Line Sizing**

Pipe Length	Liquid Line Size
0 - 25	5/8 (A), 5/8 (B)
26 - 50	5/8 (A), 5/8 (B)
51 - 75	5/8 (A), 5/8 (B)
76 - 100	5/8 (A), 5/8 (B)
101 - 125	5/8 (A), 5/8 (B)
126 - 150	5/8 (A), 5/8 (B)
151 - 175	7/8 (A), 7/8 (B)
176 - 200	7/8 (A), 7/8 (B)

#### **Suction Line Sizing**

Pipe Length	<b>Suction Line Size</b>
0 - 25	1 1/8 (A), 1 1/8 (B)
26 - 50	1 3/8 (A), 1 3/8 (B)
51 - 75	1 3/8 (A), 1 3/8 (B)
76 - 100	1 3/8 (A), 1 3/8 (B)
101 - 125	1 5/8 (A), 1 5/8 (B)
126 - 150	1 5/8 (A), 1 5/8 (B)
151 - 175	1 5/8 (A), 1 5/8 (B)
176 - 200	1 5/8 (A), 1 5/8 (B)

Dual suction riser may be required, refer to PD.

#### **Outdoor Unit Parameters**

Unit Quantity:	1	
PartNumber:		
Unit Model:		
Unit Size:	30 Tons	
Voltage:	78 .	V-Ph-Hz
Total Clg Cap.(Gross):		MBH

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## Performance Summary For HSS BUILDING 30T 112221 Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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SDT:129	9.2	°F
ARTA	9.2	۰F
SCT:129	9.1	۴
COTO.	9.1	۰F
Clarified Air DD:	5.0	۴
Saturated Suction Temp: 49	5.0	۰F

38AP units are not designed for Refrigeration Duty. Unit operational range should be reviewed to ensure that operation at full and part load conditions with Saturated Suction Temperatures at or below 30 F are avoided. Operation below 30 F SST may result in ice build-up on evaporator coil resulting in liquid flood-back and possible compressor failure. Return/Mixed Air Temperature should not be below 55F. If the customer requires differently, please contact application engineering.

#### **Outdoor Electrical Data**

Unit Voltage:	208-3-60	V-Ph-Hz
Unit MCA:	138.8	Amps
Unit MOCP:	175.0	Amps
Compressor Power:	32.50	•
Voltage Range Min:	187	V
Voltage Range Max:	254	
Compressor RLA:	55.8/55.8	
Compressor LRA:	340/340	
Compressor Quantity:1 (Circ	c A), 1 (Circ B)	
Fan Motors Qty:	2	
Fan Motor FLA:	NA	Amps
Notice: Outdoor unit elect, data is based on 208-3-60		

#### FIOPS and Accessories Information

FIOPS	Quantity
Standard Line Length, RTPF	1
Export packaging, (Skid + Bag)	1
Scrolling Marquee, EMM, BACnet Communication	1
Accessories	Quantity
Thermostat for Outdoor Unit	1
Navigator for Outdoor Unit	1

Liquid line check valve(s) prevent charge migration to compressor. These valves may be required for certain applications, refer to PD.

#### **Acoustic Information**

A-Wgt Outdoor Sound Power Level:....

...94.9 dbA

- 1. The acoustic center of the unit is located at the geometric center of the unit.
- 2. All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

## Performance Summary For HSS BUILDING 30T 112221

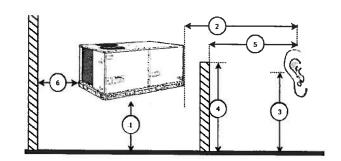
Project: HA-1702-21-11 UOG IFB B21-17 PURCHASING HVAC EQUIP

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#### **Advanced Acoustics Parameters**

1. Unit height above ground:	1.0	ft
2. Horizontal distance from unit to receiver:	20.0	ft
3. Receiver height above ground:		
4. Height of obstruction:	0.0	ft
5. Horizontal dist. from obstruction to receiver:	0.0	ft
6 Horizontal dist from unit to obstruction:		



#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Ove
Sound Power Levels at Unit's Acoustic Center (Lw), dB	77	96	93	92	93	90	87	84	80	101
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	37	70	77	84	89	90	88	85	79	95
Sound Press. Levels at Dist. Specified above (Lp), dB	52	72	69	68	68	66	62	59	56	76
A-Wgted Sound Press. Levels at Dist. Specified above (LpA), dBA	13	46	53	59	65	66	64	60	55	71

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

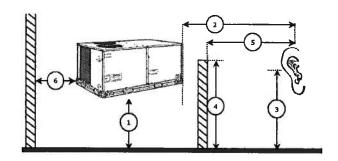
## **Acoustic Summary For HSS BUILDING 30T 112221**

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#### **Outdoor Unit Parameters:**

Tag Name:	HSS BUILDING 30T 112221
Unit Model:	
	30 Tons
	Dx Cooling Only
	PŪROŃ
	1 (Circ A), 1 (Circ B)
	Scroll



#### **Advanced Accoustics Parameters**

1. Unit height above ground:	1.0	
2. Horizontal distance from unit to receiver:		
3. Receiver height above ground:		
4. Height of obstruction:	0.0	
5. Horizontal distance from obstruction to receiver:	0.0	
6. Horizontal distance from unit to obstruction:	0.0	

#### **Detailed Acoustics Information**

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Over
Sound Power Levels at Unit's Acoustic Center (Lw), dB	77	96	93	92	93	90	87	84	80	101
A-Wgted Sound Power Levels at Unit's Acoustic Center (LwA), dBA	37	70	77	84	89	90	88	85	79	95
Sound Press. Levels at Dist. Specified above (Lp), dB	52	72	69	68	68	66	62	59	56	76
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ftftftft

#### **Acoustic Note:**

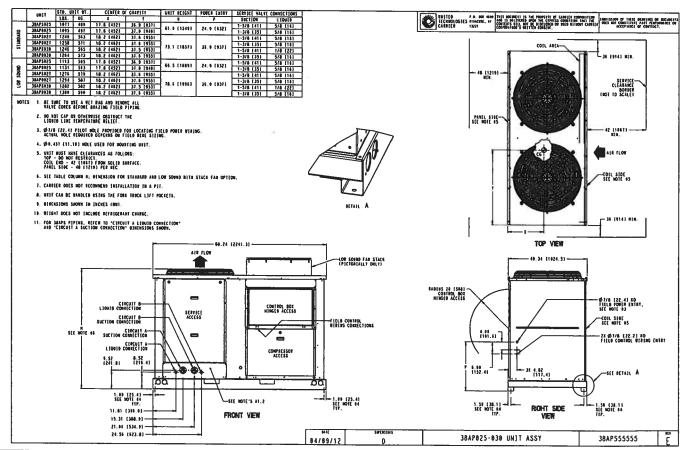
- 1. Estimated Sound Power levels dB re: 1 picowatt
- 2. Estimated Sound Pressure levels dB re: 20 micropascal
- 3. Estimated sound levels given above are assumed to originate at the acoustic center of the unit. The acoustic center of the unit is located at the projection of the condensing unit's geometric center of its base.
- Sound power levels shown above were determined in accordance with ARI standard 370 for large outdoor refrigeration and air conditioning equipment.
- 5. Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

### Certified Drawing for HSS BUILDING 30T 112221

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#### GUIDE SPECIFICATIONS – 38APD03056-3009J

## HVAC Guide Specifications Commercial Air-Cooled Condensing Units with Puron® Refrigerant (R-410A)

Size: 030

#### Part 1: General

#### SYSTEMDESCRIPTION

1.01. Outdoor-mounted, air-cooled condensing unit with Puron® refrigerant (R-410A) suitable for on-the-ground or rooftop installation. The 38APD unit shall have two independent refrigeration circuits and shall consist of two, four, five or six rotary scroll compressors. Unit shall have air-cooled coils, propeller-type condenser fans, a control box, and shall discharge condenser air vertically upward as shown on certified drawings. Unit shall be used in refrigeration circuit with a central station air-handling unit or direct-expansion coils.

#### **QUALITY ASSURANCE**

- 1.01. Unit performance shall be rated in accordance with AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Standard 365, latest edition (U.S.A).
- 1.02. Unit construction shall comply with latest edition of ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 15 Safety Code, UL 1995, and ASME (American Society of Mechanical Engineers) applicable codes (U.S.A. codes).
- 1.03. The management system governing the manufacturer of the product is ISO (International Organization for Standardization) 9001:2015 certified.
- 1.04. Base unit shall be constructed in accordance with UL (Underwriters Laboratories) standards and CSA (Canadian Standards Association)..
- 1.05. Painted parts shall with stand 1000 hours in constant neutral salt spray under ASTM B117 conditions with a 1mm scribe per ASTM D1654. After test, painted parts shall show no signs of wrinkling or cracking, no loss of adhesion, no evidence of blistering, and the mean creepage shall not exceed 1/4 in. (Rating = 4 per ASTM D1654) on either side of the scribe line.
- 1.06. Design pressure shall be 650 psig (4482 kPa).
- 1.07. Unit shall be functional checked at the factory.
- 1.08. Lifting holes shall be provided to facilitate rigging.

#### DELIVERY, STORAGE, AND HANDLING

1.01. Unit shall be shipped as single package and shall be stored and handled per unit manufacturer's recommendations.

#### WARRANTY (FOR INCLUSION BY SPECIFYING ENGINEER)

#### Part 2: Products

#### **EQUIPMENT**

#### 2.01. General:

A. Factory assembled, single-piece, air-cooled condensing unit. Contained within the unit enclosure shall be all factory wiring, piping, controls, compressors, nitrogen holding charge, and special features required prior to field start-up.

#### 2.02. Unit Cabinet:

A. Cabinet shall be galvanized steel casing with a baked enamel powder or pre-painted finish.

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B. Control box access panels shall be hinged for service access.

#### 2.03. Fans:

- A. Condenserfans shall be direct-drive propeller type, discharging air vertically upward.
- B. All condenser fan motors shall be totally enclosed 3-phase type with permanently lubricated ball bearings, class F insulation and internal, automatic-reset thermal overload protection or manual reset calibrated circuit breakers.
- C. Shafts shall have inherent corrosion resistance.
- D. Fan blades shall be statically and dynamically balanced.
- E. Condenser-fan openings shall be equipped with PVC-coated steel wire safety guards.

#### 2.04. Compressors:

- A. Compressors shall be rotary scroll.
- B. Operating oil charge and a crankcase heater control oil dilution.
- C. Compressors shall be mounted on two rails having rubber in shear vibration isolators.
- D. Staging of compressors shall provide unloading capability.
- E. Compressor motors shall be cooled by refrigerant gas passing through motor windings and shall have either internal line break thermal and current overload protection or external current overload modules with compressor temperature sensors.

#### 2.05. Condenser Coils:

- A. Coil shall be air-cooled microchannel heat exchanger (MCHX) and shall have a series of flat tubes containing a series of multiple, parallel flow microchannels layered between the refrigerant manifolds. Microchannel coils shall consist of a two-pass arrangement. Coil construction shall consist of aluminum alloys for the fins, tubes and manifolds in combination with a corrosion-resistant coating on the tubes.
- B. Tubes shall be cleaned, dehydrated, and sealed.
- C. Assembled condenser coils shall be leak tested and pressure tested at 650 psig (4482 kPa).

#### 2.06. Refrigeration Components:

- A. Refrigeration circuit components shall include liquid line temperature relief device, pressure transducers, liquid line shutoff valve, suction shutoff valve, suction line accumulators, nitrogen holding charge, and compressoroil.
- B. Standard line length (0-100 ft)
- C. Long line length check valves are required for liquid line installation on all linear line length applications of more than 100 ft (30.5 m) to prevent liquid migration during unit shutdown. For any 025-030 size dual circuit unit application where evaporator is located higher than the condensing unit, check valves are required for linear line length above 55 ft (16.8 m).
- D. Units shall include one factory-installed suction line accumulator for each refrigerant circuit.

#### 2.07. Controls and Safeties:

- A. Unit ComfortLink controls shall include:
  - 1. Scrolling marquee display module shall be used for accessing condensing unit information, reading sensor values, and testing the condensing unit. The scrolling marquee display is a 4-key, 4-character, 16-segment LED (light-emitting diode) display. Eleven mode LEDs shall be located on the display as well as an Alarm Status LED. The display shows all of the ComfortLink control codes (with 60-character expandable clear language), plus set points, time of day, temperatures, pressures, and superheat. Additional information can be displayed all at once with the accessory Navigator<sup>TM</sup> display.
  - 2. Carrier Comfort Network® (CCN) system capability.
  - 3. Unit control with standard pressure transducer, discharge pressure transducer and suction temperature thermistors.
  - 4. Current alarm list and alarm history list on display.
  - 5. Automatic compressor lead/lag control.
  - 6. Service run test capability.
  - 7. Compressor minimum run time (3 minutes) and minimum off time (3 minutes).
  - 8. Service diagnostic mode.
  - 9. Self-contained low voltage control circuit.
  - 10. Cycle condenser fans to maintain proper head pressure control.
  - 11. Capacity control with staging compressors.

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- 12. Alarm relay output to indicate when unit is in alarm condition.
- B. Minimum unit safety devices shall include:
  - Solid-state compressor lockout to provide optional reset capability at the space thermostatif any of the following safety devices trip and shut off compressor.
    - a Compressor lockout protection for internal or external overload.
    - b. Low pressure protection.
    - c. High pressure protection (high pressure switch or internal).
    - d. Compressor reverse rotation protection.
    - e. Loss of charge protection.
    - f. Low suction superheat protection.
    - g. Short cycle protection.
    - h. Suction and discharge pressure transducers.
    - i. Circuit breakers or fuses for short circuit protection of compressors.

2.08.	Operating	Charact	eristics
-------	-----------	---------	----------

2.00	. <b>U</b> P'	crating of laracteristics.
	A.	The capacity of the condensing unit shall meet or exceedBtuh (kW) at a suction temperature ofF (C).
		The power consumption at full load shall not exceedBtuh (kW).
	B.	The combination of the condensing unit and the evaporator or air handling unit shall have a total net cooling capacity of
		Btuh(kW)orgreateratconditions ofcfm(L/s) entering-air temperature at the evaporator atF
		(C) wet bulb andF (C) dry bulb, and air entering the condensing unit atF (C).
	C.	The system shall have an Energy Efficiency Ratio (EER) ofBtuh/watt or greater at standard AHRI conditions.
2.09		ctrical Requirements:
	A.	All unit power wiring shall enter unit cabinet at a single location. Unit shall be provided with a XL starter and a terminal
		block.

#### 2.10. Special Features:

- A. Optional E-coated copper-fin coils:
  - 1. Coil shall have a flexible epoxy polymer coating uniformly applied to all coil surface areas without material bridging between fins. Coating process shall ensure complete coil encapsulation. Color shall be high gloss black with gloss; 60° of 65 to 90% per ASTM D523-89. Uniform dry film thickness from 0.8 to 1.2 mil on all surface areas including fin edges. Superior hardness characteristics of 2H per ASTM D3363-92A and cross hatch adhesion of 4B-5B per ASTM D3359-93. Impact resistance shall be up to 160 in./lb (ASTM D2794-93). Humidity and water immersion resistance shall be up to minimum 1000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 3000 hours salt spray per ASTM B117-90. Coil construction shall be copper-fins mechanically bonded to copper tube sheets. Galvanized steel tube sheets shall not be acceptable. A polymer strip shall prevent coil assembly from contacting sheet metal coil pan to maintain coating integrity and minimize corrosion potential between the coil and pan.
- B. Navigator™ Hand Held Display:
  - 1. Portable hand held display module with a minimum of 4 lines and 20 characters per line, of clear English, French, Spanish, or Portugueselanguage.
  - 2. Display menus shall provide clear language descriptions of all menu items, operating modes, configuration points and alarmdiagnostics. Reference to factory codes shall not be accepted.
  - 3. RJ-14 connection plug shall allow display module to be connected to factory-installed receptacle.
  - 4. Industrial grade coiled extension cord shall allow the display module to be moved around the unit.
  - 5. Magnets shall hold the display module to any sheet metal panel to allow hands-free operation.
  - 6. Display module shall have NEMA (National Electrical Manufacturers Association, U.S.A.) 4x housing suitable for use in outdoor environments.
  - 7. Display shall have back light and contrast adjustment for easy viewing in bright sunlight or night conditions.
  - 8. Navigator module shall have raised surface buttons with positive tactile response.
  - 9. Navigator module shall be available as field-installed accessory for all units.

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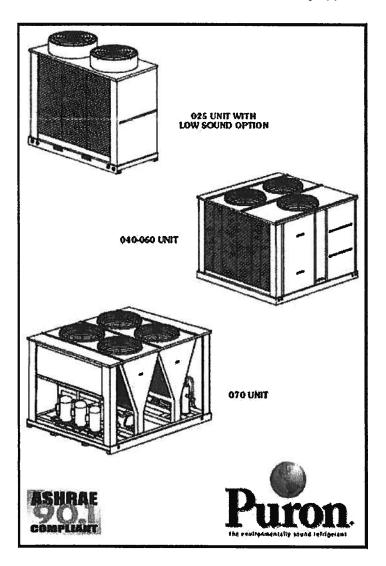
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- C. BACnet Communication Option:
  - 1. The BACnet Communication option shall provide factory-installed communication capability with a BACnet MS/TP network. Allows integration with i-Vu® Open control system or a BACnet building automation system.
- D. Energy Management Module (EMM):
  - 1. The EMM shall provide remote set point, demand limit control, and percent capacity input. The EMM is not needed with use of BACnet or LON accessory kit.



### 38AP GEMINISELECT AIR COOLED CONDENSING UNITS

These condensing units feature two independent refrigerant circuits, each circuit having its own highly efficient scroll compressors. All units are factory wired, nitrogen charged, and easily connected by refrigerant lines and control wiring to the matching Carrier air-handling unit (40RU or 39 Series). Various combinations of these extremely flexible condensing units matched with air handlers provide customized packages to cover a wide range of cooling requirements. Low roof-load weight distribution and weatherproof construction make these units excellent selections for rooftop or on-the-ground installations. These 38AP condensing units are well suited for commercial or industrial air conditioning applications.





These dependable split systems match Carrier's 40RU or 39 Series indoor-air handlers with the versatile outdoor 38AP condensing units for a wide selection of commercial cooling solutions.

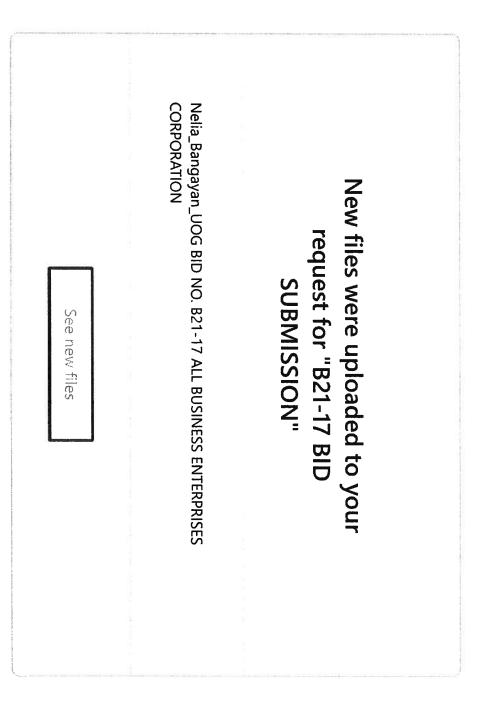
- Split condensing units compatible with ASHRAE 90.1
- Chlorine-free, non-ozone depleting Puron refrigerant (R-410A)
- Condenser coils feature the Novation® heat exchanger with microchannel coil technology
- 38APS single-circuit unit has up to 3 rotary scroll compressors
- 38APD unit has up to 6 rotary scroll compressors with 2 independent circuits
- Standard scroll compressor units operate as low as 33% (single circuit) or 15% (dual circuit) of nominal capacity
- Optional digital scroll compressors allow incremental unloading down to 10% (single circuit) or 5% (dual circuit) of nominal capacity for VAV applications
- Protection against high discharge and low suction refrigerant pressure, and low oil pressure

# Nelia Bangayan uploaded new files to your request for B21-17 BID SUBMISSION

SharePoint Online <no-reply@sharepointonline.com>
Mon 12/6/2021 11:31 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]



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### EXHIBIT B

### **UOG BID NO.B21-17**

### PURCHASING OF HVAC EQUIPMENT OF THE UNIVERSITY OF GUAM

### Scope of Work

### 1. Scope of the Work

This bid is to select and award a contract for the purchasing of multiple Air Conditioning units for the University of Guam.

### 2. Bid Submittals

- a) Bid prices shall be submitted on Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional cost not stated in this bid but are required to complete the delivery must be included in the bidder's price.
- b) Bidder shall submit an electronic copy to the Share folder that UOG procurement office provides.

Contractor is required to submit prices for Table 1.0.

Bid award to be based on the required items in Table 1.0 and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package, BID NO. B21-17.

Table 1.0 Bid Price Form

No.	ITE	M DES	CRIPTIO	N		BID Price
1	LOCATION	UNIT	TONS	VOLTAGE	TVX	
	RFK BUILDING SECOND FLO	OR 1	50	208 / 230	2 EA 25	120,002.50
	RFK BUILDING FIRST FLOOR 20RFK BUILDING FIRST FLOOR		40	208 / 230	2 EA	107,574.60
	MAIN ENTRANCE 7.5RFK BUILDING FIRST FLOO	1 OR	15	208 / 230	2 EA	67,372.50
	AV ROOM 7.5RFK BUILDING FIRST FLOO	1 OR	15	208 / 230	2 EA	67,372.50
	OFFICES	1	20	208 / 230	2 EA 10	80,461.60
	PIP (GLE) SECOND FLOOR 10SCIENCE BUILDING FIRST	1	20	208 / 230	2 EA	80,461.60
	FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	107,574.60
	SECOND FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	107,574.60
	THIRD FLOOR 10EGLISH COMMUNICATION	1	20	208 / 230	2 EA	80,461.60
	BUILDING CLASSROO 15COMPUTER CENTER OIT	1	30	208 / 230	2 EA	98,359.60

Grand Delive	\$1,456,044.4					
	98,359.60					
	HSS BUILDING HSS BUILDING	2	50 30	277 / 460 277 / 460	2 EA. – 25 2 EA. – 15	240,005.00
	LECTURE HALL AUDIT	ORIUM 1	20	277 / 460	2 EA 10	80,461.60
	BUILDING FIRST FLOO		50	277 / 460	2 EA 25	120,002.50

18 TO 20 WEEKS FACTORY ; EAD TIME PLUS 5 WEEKS SHIPPING.

ALL UNITS MANUFACTURED WITH COPPER TUBES, CORPER FINS PLUS FACTORY PHENOLIC COATING FOR CORROSION.

NELIA F. BANGAYAN - DEC. 6, 2021

SIGNATURE OF BIDDER DATE

### **OPTIONS**

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to exercise any or part of the options requested. Insert any additional options recommended.

### **Table 2.0 Options**

No.	Item Description	Price
1	Services for Maintenance and upkeep Quarterly preventi Maintenace. 1,200 per unit discounted to 850 per unit X 15 units = 12,750 x 4 quarters eq	ve .00 .81g. \$51.000.00
2	Services for disposal. heavy equiotment rental 750.00 per unit X 15 = \$ 11,250.00	, (32)300000
3	Replacement/trade in program To be discussed upon aw	ard.

### OTHER NOTES:

- 1. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
- 2. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

NOTE: Name and title of author of specifications:

University of Guam

Glenn Leon Guerrero, Director, Facilities Management & Services, Email: glennlg@triton.uog.edu

Emily Gumataotao, Supply Management Administrator, Email: eggumataotao@triton.uog.edu

Guam A

P.O. BOX BW - HAGÁTÑA, GUAM 96932

101-511 NO. 1020651

DECEMBER 03, 2021

NOT VALID AFTER 90 DAYS FROM DATE OF ISSUE

\$ 218,410.00\*\*\*

PAY TO THE ORDER OF

UNIVERSITY OF GUAM

\*\*\*\*\*\*TWO HUNDRED EIGHTEEN THOUSAND FOUR HUNDRED TEN AND NO/100\*\*\*\*\*

DOLLA

MEMO: UOG BID NO. B21-17

**CASHIER'S CHECK** 

WARNING: DO NOT CASH THIS CHECK UNLESS YOU CAN SEE THE WATERMARK. TO VERIFY WATERMARK HOLD UP TO LIGHT TO VIEW. RUB GRAY SIGNATURE AREA TO SEE COLOR CHANGE. CHECK BACKGROUND IS IN GREEN COLOR.

3110140# 81

Received 134 Kaimana lerlage
DEC. 3, 2021

# 10 20651# #121405115#

B21-17686

### INVITATION FOR BID (IFB) UOG BID No. B21-17

The University of Guam is soliciting sealed bids for:

## **PURCHASING OF HVAC EQUIPMENT**

Information may be obtained from: UOG Procurement Office

2925

-3010

1.uog.edu

tion Building, Mangilao, Guam

curement to obtain a copy of the Bid Package. Once your request is received, you will sess and ability to download the PDF file. 30 is ONLY required to submit a bid offer due before bid deadline. Payment may be t card at the UOG Business Office, Cashier Services located at the UOG Administration 4 pm. Pay by phone is available by contacting 735-2923/45/46. Please reference Bid king payment. Send proof of receipt to <u>uog bids@triton.uog.edu.</u>

ild Packages is on Monday, November 22, 2021 on or before 2:00 P.M. via electronic submission to electronic Bid Share folder provided by UOG Procurement Office. Bid Opening will take place at 3:00

pm through Zoom link provided to all bidders.

Note: Prospective bidders/respondents will automatically be registered with information provided on form when requesting for bid documents. Contact information should be accurate to ensure you receive any notices regarding any changes or updates to the IFB/RFP. UOG will not be liable for failure to provide notice to any party who inputs inaccurate contact information.

/s/Thomas W. Krise, Ph.D.

University of Guam is an Equal Opportunity Employer and Provider. This Advertisement is naid for hy University of Guam Funde



# CONTRACTORS LICENSE

LOU LEON GUERRERO Sovernor of Guam

Lt. Governor of Guam JOSH TENORIO

Pursuant to the provisions of Chapter VII Title XI of the Government of Guam and the Rules and Regulations of the Contractors License Board, the Executive Director of Contractors hereby issues this license to:

## All Business Enterprises Corporation

To engage in the business or act in the capacity of a contractor in the following classifications A, B, C3, C4,C11,C13,C13A,C16,C17,C18,C19,C20,C33,C37,C40, C42, C44, C51, C55, C56 & C68 (Epoxy, Generator Maintenance)

or invalidated for any reason. It becomes void if not renewed on or before the expiration date. and shall be returned to the Executive Director upon demand when suspended, revoked, This license is the property of the Executive Director of Contractors, not transferable,

RME # 7733

**Issued:** June 29, 2021 **GRT** # 200200441

Expires: June 30, 2022 **Certificate** # C-0621-0929







CECIL "BUDDY" L. ORSINI EXECUTIVE DIRECTOR



### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

### **AMENDMENT 1**

### Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

### **PURCHASING OF HVAC EQUIPMENT**

This is to notify all prospective offerors of the following amendment:

1.1 PRE-BID Conference and Site visit is scheduled for Wednesday, November 3, 2021 at 10:00am. Meet-up will be at Facilities Maintenance Services, 1st Floor Bay. Please contact 735-2377 for directions.

All other terms and conditions remain the same.

Emily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: ALL BUSINESS ENTERPRISES CORPORATION

ielia f. Bangayan nov. 30, 2021

Print Name/Signature/Hate



### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

### **AMENDMENT 2**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

### PURCHASING HVAC EQUIPMENT

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 REPLACE "Cover Page" with corrected form as set forth in the attached.
- 1.2 ADD: after Cover Page, p.2 "Bidders Registry" with corrected form as set forth in the attached.
- 1.3 REPLACE "Table of Contents" with corrected form as set forth in the attached.
- 1.4 REPLACE "Instructions to Bidders" with corrected forms as set forth in the attached.
- 1.5 ADD: after ATTACHMENT I, "Register of Wage Determinations Under The Service Contract Act"
- 1.6 **REPLACE** Exhibit B "Bid Price Form" with corrected forms as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao

Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: ALL BUSINESS ENTERPRISES CORPORATION

NELIA F BANGAKAN

NOV. 30, 2021

Print Name/Signature/date



Consolidated Procurement Office

### INVITATION FOR BID (IFB) UOG BID NO. B21-17

### The University of Guam is soliciting sealed bids for the PURCHASING OF HVAC EQUIPMENT For The University of Guam

Copies of the Bid Package and Instructions and Information may be obtained from:

OFFICE: UOG Procurement Office

TELEPHONE: (671) 735-2925 FAX NO.: (671) 735-3010

LOCATION: UOG Administration Building (ANNEX BUILDING) Mangilao, Guam

E-MAIL: uog.bids@triton.uog.edu

A non-refundable fee of \$25.00 is required to obtain a hard copy of the bid package. Payment may be made via cash, check or credit card at the UOG Business Office, Cashier Services located at the UOG Administration Building Mon-Fri from 8 am - 4 pm. Pay by phone is available from 8 am - 4 pm. You may schedule an appointment with our cashier services at 735-2923/45/46, please reference Bid number and title when making payment. Send proof of receipt to the Procurement Office.

In accordance with 5 G.C.A. \$5220(a), a digital copy of this solicitation shall be posted on UOG's website at uog.bids@triton.uog.edu. No fees shall be assessed to potential bidders or other parties for accessing or downloading a copy of this solicitation from UOG's website. Potential bidders who access or download a copy of this solicitation from UOG's website must register their contact information with UOG to ensure that they receive any notices regarding any changes or updates to this solicitation. In accordance with 5 G.C.A. \$5220(b), UOG shall not be liable for failure to provide notice to any party who accesses or downloads a copy of this solicitation from UOG's website and who fails to register their contact information with UOG as required herein. Please have subject line reference as indicated the UOG Bid number, Bid Title, and your Company or Requestor's Name to register for UOG's Bid Distribution Registry.

<u>Deadline for Submission</u> of Bid Packages is on Monday, November 22, 2021 on or before 2:00 P.M. via electronic submission to electronic Bid Share folder provided by UOG Procurement Office.

/s/ Thomas W. Krise, Ph.D. President

University of Guam is an equal opportunity employer and provider. This Advertisement is paid for by University of Guam Funds.

**AUTHORIZED FOR ANNOUNCEMENT** 

Thomas W. Krise, Ph.D. President



### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

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Consolidated Procurement Office

### UOG BIDDERS DISTRIBUTION REGISTRY FORM FOR UOG BID NO. B21-17

INFORMATION ON INTERESTED BIDDER FOR BID REGISTRY ENTRY MUST BE RECEIVED BY UOG'S PROCUREMENT OFFICE PRIOR TO RECEIVING ANY DISTRIBUTED COPY SET OF THIS IFB (WITH OR WITHOUT THE BID FEE)

	NOTICE:
ALL DISTRIBUTIONS OF THIS E CONSOLIDATED PROCUREMEN	BID PACKET MUST BE RECORDED IN THE BID'S REGISTRY (LOG) AT UOG'S
THE BID REGISTRY ALSO PROV FUTURE AMENDMENTS, ADDE	VIDES THE NECESSARY CONTACT INFORMATION NEEDED TO DISTRIBUTE NDUMS, AND CLARIFICATIONS FOR THIS BID PACKET.
UOG PAYMENT RECEIPT NO.	DATE: 11 / 30 /21 TIME:
PAYMENT METHOD: [ ] CAS	H [ ] CHECK NO [ ] CREDIT CARD
NAME OF COMPANY:	ALL BUSINESS ENTERPRISES CORPORATION
PHYSICAL ADDRESS:	153 B HARMON INDUSRIAL PARK, TAMUNING, GUAM 96913
MAILING ADDRESS:	P.O.BOX 9788, TAMUNING, GUAM 96931
CONTACT PERSON & TITLE:	NELIA F. BANGAYAN , PRESIDENT
CONTACT NUMBERS:	671-646-4435 671-646-0589 671-483-8310 TELEPHONE FAX CELLULAR
E-MAIL ADDRESS:	nbangayan@jbmoderntech.com
OTHER CONTACT INFORMATION OR HELPFUL INSTRUCTIONS FOR UOG WHEN FORWARDING FUTURE UPDATES:	
UOG PAYMENT RECEIPT NO  PAYMENT METHOD: [ ] CAS  NAME OF COMPANY:  PHYSICAL ADDRESS:  MAILING ADDRESS:  CONTACT PERSON & TITLE:  CONTACT NUMBERS:  E-MAIL ADDRESS:  OTHER CONTACT INFORMATION OR HELPFUL INSTRUCTIONS FOR UOG WHEN FORWARDING	DATE: 11 / 30 / 21 TIME:  H [ ] CHECK NO [ ] CREDIT CARD  ALL BUSINESS ENTERPRISES CORPORATION  153 B HARMON INDUSRIAL PARK, TAMUNING, GUAM 96913  P.O.BOX 9788, TAMUNING, GUAM 96931  NELIA F. BANGAYAN , PRESIDENT  671-646-4435  671-646-0589  671-483-8310  TELEPHONE FAX CELLULAR  nbangayan@jbmoderntech.com

UNIVERSITY OF GUAM - CONSOLIDATED PROCUREMENT OFFICE UOG Station, Mangilao, Guam 96923 Tel. (671) 735.2925 Fax. (671) 735.3010 A U.S. LAND GRANT INSTITUTION ACCREDITED BY THE WESTERN ASSOCIATION OF SCHOOLS & COLLEGES THE UNIVERSITY OF GUAM IS AN EQUAL OPPORTUNITY EMPLOYER AND PROVIDER



Consolidated Procurement Office

### UNIVERSITY OF GUAM INVITATION FOR BID UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM

DATE ISSUED:

October 22, 2021

**UOG SECTION:** 

FACILITIES MANAGEMENT & SERVICES (FMS),

**ADMINISTRATION & FINANCE** 

ISSUED BY:

**UOG CONSOLIDATED PROCUREMENT OFFICE** 

TELEPHONE NO.: (671) 735-2925

FAX NO.: (671) 735-3010

E-MAIL: uog.bids@triton.uog.edu

### **INSTRUCTIONS TO BIDDERS**

1. RECEIPT AND OPENING OF BIDS: Sealed bids for UOG **B21-17** PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM (UOG) must be received by the Procurement Office nolater than:

TIME: 2:00 P.M.

DATE: Monday, November, 22,2021

Bids submitted after the time and date specified above shall be rejected. Bid opening will be conducted electronically via Zoom Link at 4:00 pm; link will be provided through email to all registered offerors.

Attention is called to the fact that bidders not only offer to assume the obligations and liabilities imposed upon the contractor in the form of a contract, but are expressly made certain of the representations and warrants made herein. No effort is made to emphasize any particular provision of the contract, but bidders must familiarize themselves with every provision and its effect. This Bid is subject to General Terms and Conditions of the Invitation for Sealed Bids (Attachment A) and the Special General Provisions (Attachment B).

In consideration of the expense of the University of Guam of opening, tabulating, and evaluating this and other bids, and other considerations, the undersigned agrees that this bid shall remain firm and irrevocable within sixty (60) calendar days from the date of opening to supply any or all of items for which prices are quoted.

- 2. BIDDER QUALIFICATIONS (Attachment C): The University of Guam may require bidders to presentsatisfactory evidence that they have sufficient experience and that they are fully prepared, thus it is required that the bidder completely fill out the Bidder's Qualifications Form.
- 3. NON-COLLUSION AFFIDAVIT (Attachment D): Each person submitting a bid for any portion of the work covered by the bidding documents shall execute an affidavit, in the form provided with the Bid to theeffect that he has not colluded with any other person, firm or corporation in regard to any bid submitted. Such affidavit shall be attached to the proposal.

### **ADMINISTRATION & FINANCE**Consolidated Procurement Office



- 4. MAJOR SHAREHOLDERS AFFIDAVIT (Attachment E): As a condition to submitting of bids or proposals, any partnership, sole proprietorship or corporation doing business with the University of Guam shall submit an affidavit that lists the name and address of any person who has held more than ten percent (10) of outstanding shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a proposal. The affidavit shall contain thenumber of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have been held by each person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for the procuring or assisting in obtaining business related to the bid or proposal for the Offeror and shall contain the amounts of any shall commission, gratuity or other compensation. The affidavit shall be open and available for inspection and copying.
- 5. AFFIDAVIT RE GRATUITIES, KICKBACKS AND FAVORS (Attachment G): The bidder, offeror or contractor represents that it will not violate the prohibition against gratuities and kickbacks and favors set forth (Gratuities and Kickbacks) in 5 GCA, Chapter 5, Article 11, Ethics in Public Contracting and Section 11.7 (Gratuities and Kickbacks and Favors) of the UOG Procurement Manual.
- 6. AFFIDAVIT RE ETHICAL STANDARDS (Attachment H): The bidder, offeror, or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a government employee to breach any of the ethical standards set forth in 5 GCA, Chapter 5, Article 11, and in Chapter 11 (Ethics in Public Contracting) of the UOG Procurement Manual.
- 7. COVENANT AGAINST CONTINGENT FEES (Attachment I): The prospective contractor represents aspart of such contractor's bid or proposal that such contractor has/has not (Circle applicable word or words) retained any person or agency on a percentage, commission, or other contingent arrangement, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.
- 8. DECLARATION RE COMPLIANCE WITH U.S. DEPARTMENT OF LABOR WAGE DETERMINATION (Attachment J): In accordance with 5 GCA §§ 5801 and 5802, as may be applicable, each bidder certifies that any of its employees whose purpose, in whole or in part, is the direct delivery of service contracted by the University shall be paid in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the University, including health and other similar benefits. Theupdated wage rate with the most current revision shall be included in the bid submission.
- 9. RIGHT TO ACCEPT AND REJECT BIDS: The President of the University of Guam reserves the unqualified right, in his sole and absolute discretion, to reject any and all bids, or to accept that bid or combination of bids, if any, which in his sole and absolute judgment will under all circumstances best servethe interests of the University of Guam. In the event that the successful bidder fails to execute the contract upon his part or to furnish a satisfactory performance and payment bond, the University, after declaring these curity deposit of such bidder forfeited, reserves the option to accept the bid of any other bidder within ten (10) days from such default, in which case such acceptance shall have the same effect as to such bidderas though he was the originally successful bidder.
- 10. MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS: The University reserves the right to revise or amend the specifications prior to the date set for opening bids. Such revisions and amendments, ifany, will be announced by an amendment or amendments to this Invitation for Bids and shall be identified as such. It is required that the bidders acknowledge in writing receipt of all amendments issued and such acknowledgment must be included in the bid. The



Consolidated Procurement Office

amendment shall refer to the portions of the Invitation forBids it amends. Amendments shall be sent to all prospective Bidders known to have received an Invitation for Bids. Amendments shall be distributed within a reasonable time to allow prospective Bidders to considerthe amendment in preparing their Bids. If the time and date set for receipt of bids will not permit such preparation, such time shall be increased to the extent possible in the amendment or, if necessary, by email or telephone and confirmed in the amendment.

- 11. CANCELLATION OF SOLICITATION: Prior to the date set for opening bids, a solicitation may be cancelled in whole or in part when the President or his designee determines in writing that the cancellation of the solicitation is in the University's best interest, in accordance with the University's Procurement Rulesand Regulations.
- 12. METHOD OF AWARD: Bid shall be awarded to the [x] lowest, [] highest, responsible and responsive bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids. A responsible bidder is one who has the capability in all respects to perform fully the contract requirements, and the integrity and reliability which will assure good faith performance. A responsive bidder is one who has submitted a bid which conforms in all material respects to the Invitation for Bids. The University reserves the right to waive any minor information of irregularity in Bids received. The President shall have the authority to award or reject Bids, in whole or in part for any one or more items if he determines it is in the public interest.

Award issued to the [x] lowest, [] highest, responsible and responsive bidder within the specified time foracceptance as indicated in the Bid, results in a binding contract without further action by either party provided the successful bidder executes a formal contract with the University. In case of any error in the extension of prices, unit price will govern. It is the policy of the Government of Guam to award Bids to qualified local vendors.

### 13. SUBMISSION OF BIDS:

- **a.** Bids and modifications thereof shall be submitted through electronic submission to the Share folder that UOG procurement office provides and addressed to the office specified in the Solicitation. The electronic file submission will show the hour and date of submission as specified in the Solicitation for receipt. The file should identify the Solicitation number, and the name of the bidder.
- **b.** Bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 9 of these instructions).
- c. Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the University, at no expense to the University. If not destroyed by testing, sampleswill be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
- **d.** Samples or descriptive literature should not be submitted unless it is required on this Solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any ofthe provisions of this Solicitation.



Consolidated Procurement Office

- 14. FAILURE TO SUBMIT BID: If no bid is to be submitted, do not return the Solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation is desired.
- 15. PRE-BID CONFERENCES. Pre-Bid conferences will be permitted any time prior to the date established herein for submission of bid. The conferences will be conducted only to explain the procurement requirements for this Request for Proposal. The Authority will notify all Bidders of any substantive clarification provided in response to any inquiry. The Authority will extend the due date if such information significantly amends the solicitation or makes compliance with the original proposed due date impractical.
- 16. BID PACKET. The prospective bidder is required to read each and every page of the Bid Packet and bythe act of submitting a proposal shall be deemed to have accepted all conditions contained therein. In no case will failure to inspect constitute grounds for claim or for the withdrawal of a bid after opening. Bid submission shall be sent electronically. Erasures or other changes in a bid must be explained or noted over the signature of the offeror. Bid submission containing any conditions, omissions, unexplained erasure or alterations or items not called for in the Bid packet, or irregularities of any kind may be rejected by the University as being incomplete.
- 17. BID PACKET FORM. A non-refundable fee of \$25.00 (U.S.) shall be charged for each hard copy or CD ROM bid packet. All payments shall be made by cash, certified check or money order to the University of Guam. Cashier services are located at the UOG Administration Building Mon-Fri from 8am-4pm by appointment only. Payby phone is also available from 8am-4pm at 735-2923/45/46.
- **18.** NOTICE OF AWARD. UOG will notify all bidders the status of the Bid and Notice of Award. Written notice of award will be public information and made a part of the contract file.
- 19. LOCAL PROCUREMENT PREFERENCE: "All procurement of supplies and services shall be made from among businesses licensed to do business on Guam in accordance with Guam Code Annotated Title 5 Chapter 5 Section 5008 and Section 3.9.14.5, UOG Procurement Regulation."
- 20. BIODEGRADABLE, REUSEABLE, RECYCLABLE MATERIALS: Section 1.5, UOG Procurement Regulations. UOG's President or his designee, whenever possible, shall procure products that are biodegradable, reusable, recyclable, or made of recycled material, or any of these in any combination. The cost (prior to any adjustments for local vendors) of appropriate biodegradable, reusable, recyclable, or recycled products may be as much as ten percent (10%) greater than the cost of the non-biodegradable, non-recyclable, or non- recycled products they are replacing.
- 21. SERVICE-DISABLED VETERAN PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by a service-disabled veteran(s) who served in the active U.S. military: (1) Who was discharged or released under honorable conditions and whose disability is service-connected as demonstrated by a DD Form 214, and certified by an award letter from the U.S. Department of Veterans Affairs; (2) That submitted the DD Form 214 and Disability award letter from the U.S. Department of Veterans Affairs with their bid submitted in response to this solicitation; (3) The service-disabled veteran(s) owner of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (4) The business concern is licensed to do business on Guam; (5) The business concern maintains its headquarters on Guam; (6) the supply or service offered by the business concern is available within the period required by UOG; and (7) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Service-Disabled Veteran Preference is given in addition to any other procurement benefit the service-disabled veteran owned business may qualify for under Guam law.



Consolidated Procurement Office

- 22. WOMEN OWNED BUSINESS PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by women, who manage day-to-day operations and make long-term decisions, and: (1) The owner(s) of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (2) The business concern is licensed to do business on Guam; (3) The business concern maintains its headquarters on Guam; (4) the supply or service offered by the business concern is available within the period required by UOG; (5) The business concern is certified as a Women-Owned Small business (WOSB) or an Economically Disadvantaged Women-Owned Small Business (EDWOSB) by the U.S. Small Business Administration; and (6) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Women Owned Business Preference is given in addition to any other procurement benefit the women owned business may qualify for under Guam law.
- 23. DETERMINING LOWEST PRICE IF BIDDERS CLAIM PREFERENCES. In accordance with 5 G.C.A. §5013(a), UOG shall determine the lowest price in the case of more than one (1) women-owned business, or a women-owned business and a service-disabled veteran owned business, who are competing for the same government contract.
- 24. MULTIPLE OR ALTERNATIVE BIDS. UOG shall not accept any multiple or alternative bid and shall reject any multiple or alternate bids its received. However, if a bidder clearly indicates a base bid, such base bid shall be considered for award as though it were the only bid submitted by the bidder. If UOG is not able to distinguish which bid is the base bid, it will reject all the multiple or alternative bids submitted by the bidder.
- 25. MULTI-TERM CONTRACT. If a multi-term contract is awarded for this solicitation, the amount of supplies or services stated on the bid price form of this solicitation shall be the amount of supplies or services required for the proposed contract period and the unit prices given by the bidder awarded the contract shall be the same throughout the multi-term contract period, except to the extent that price adjustments may be provided in this solicitation and the resulting contract, and UOG may cancel, after giving timely notice to the contractor, the multi-term contract if funds are not appropriated or otherwise made available to support continuation of performance in any fiscal period succeeding the first. However, this will not effect either UOG's rights or the contractor's rights under any termination clause in the contract. If the contract is canceled, the contractor will be reimbursed the unamortized, reasonably incurred, nonrecurring costs.



### Consolidated Procurement Office

### **AMENDMENT 3**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 19, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 Question & Answer Sheet 1 as set forth in the attached.
- 1.2 REPLACE Exhibit B "Scope of Work & Bid Price Form" with corrected forms as set forth in the attached.
- 1.3 Copy of Pre-bid Conference Sign-In sheet as set forth in the attached.
- 1.4 Deadline for submission should read as follows: Monday, November 29, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Emily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: ALL BUSINESS ENTERPRISES CORPORATION

NELLA BANGARAN

NOV. 30, 2021

Print Name/Signature/date

### QUESTION & ANSWER SHEET NO. 1 November 19, 2021

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 10/26/2021 @ 4:49pm from vendor: Guam Pacific Enterprise, Inc.

Question 1:

Section 5011 of Chapter 5 is not included in the Bid documents. (Policy In Favor of Serviced -

Disabled Veteran Owned Business)

Answer:

Please refer to Amendment 2, Item 1.4 #21

Question 2:

Is the Bid All or None Bid?

Answer:

UOG confirms yes, this is an All or None Bid.

Question 3:

Is the installation required?

Answer:

UOG confirms Installation is not required.

Question 4:

Also, will you be using Federal Financial assistance Awards for this Bid therefore it is covered by

Buy American Act.

Answer:

UOG confirms Funds are from Higher Education Emergency Relief Fund (HEERF) The Buy

American Act is to be followed "to the most extent possible.

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 10/29/2021 @ 5:48pm from vendor: MJM International Corporation

Question 1:

May I please get more information for the attached? Kindly clarify if it is the ton per unit and column

(ton) is the total tonnage.

Answer:

UOG confirms ton is the total tonnage.

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/7/2021 @ 12:00pm from vendor: JWS Refrigeration & A/C Ltd.

Question 1:

It was mentioned that you want to use only one manufacturer for the complete project, but you have Daikin condensers at the Marine Lab. It also is our understanding that many of the indoor units connected to these Daikin condensers also do not operate. These are VRF systems, which means they communicate with each other so you cannot use different manufacturers. Please clarify your intensions on this system.

Answer:

UOG Confirms there is no need for VRF/VRV units as Item Description/Location has been

revised to remove Marine Lab requirement. Please refer to Amendment 3, item 1.2.

Question 2: On the Science building 3rd floor you have two 10-ton condensers which you want to remove and

replace with a single 20 ton, do those two-line sets go to one AHU with two circuits?

Answer: UOG Confirms, Yes, they both connect to one (1) AHU. However, we are only requesting for

condensing units not installation.

Question 3: On the Lecture hall Auditorium you have the exact same issue you have two 10 ton condensers

and you want to replace with a single 20 ton, do those two line sets go to one AHU with two

circuits?

Answer: UOG Confirms, Yes, they both connect to one (1) AHU. However, we are only requesting for

condensing units not installation.

Question 4: In the specs Page 28 2.2.1.1 it says "copper to copper condensing coils" and then it says

"condensing coils to have a special coating for corrosion coating". Please clarify you want copper

fins and a coating on the copper?

Answer: UOG confirms, copper fins and a coating on the copper is needed.

Question 5: In the specs Page 28 2.2.1.3 it says you want a "208 volt control circuit". Will 115 volts be

acceptable?

Answer: UOG confirms 115 volts are not acceptable

Question 6: In Exhibit B page 63 Table 2.0 options No. 1 refers to "Service for maintenance and upkeep". Can

you please clarify the meaning of that?

Answer: UOG confirms although we are only soliciting for condenser units, we would like to

understand what the maintenance and upkeep cost for your units. This will give us an idea

of the overall cost of your unit.

Question 7: In Exhibit B page 63 Table 2.0 options No. 3 refers to "Replacement/trade in program". Can you

please clarify the meaning of that?

Answer: UOG confirms although we are only soliciting for condenser units, we would like to

understand what the maintenance and upkeep cost for your units. This will give us an idea

of the overall cost of your unit.

Question 8: Does this contract include installation of purchased equipment? At the site visit, it was stated that

the contract did not include installation. However, in the bid packet Exhibit B: 2a. it says: "Any additional cost not stated in this bid but are required to complete the delivery and installation must

be included in the bidders price" Please clarify.

Answer: UOG confirms Installation is not required.

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/8/2021 @ 11:53am from vendor: Green Energy Solutions. Inc.

Question 1: Is the purchase funded by Federal Cares Act funds? If so, do the units need to be BAA compliant?

Answer: UOG confirms Funds are from Higher Education Emergency Relief Fund (HEERF) The Buy

American Act is to be followed "to the most extent possible.

Question 2: The RFQ Equipment specifications refer to VFR /VRV Units. It does not go into detail on the units

being requested.

Answer: UOG Confirms there is no need for VRF/VRV units as Item Description/Location has been

revised to remove Marine Lab requirement. Please refer to Amendment 3, item 1.2.

Question 3: Of the units requested, the RFQ does not state whether they are Packaged Units, or Ducted Split

Units that require Air Handling Units.

Answer: UOG confirms we are purchasing "Ducted Split Condensers only. No AHU's in this bid.

Question 4: The RFQ does not state efficiency requirements (EER rating)

Answer: UOG confirms there are no EER rating.

Question 5: Are you asking for direct replacements for the units in each of the buildings?

Answer: UOG confirms, no. In some of the buildings we are consolidating units from smaller units to

a bigger unit.

Question 6: The RFQ mentions Storage, some about installation, & providing specs 5 weeks in advance of

purchases. However, the Scope states it purchase only.

Answer: UOG confirms no storage or installation required.

Question 7: Does the bidder need to supply storage?

Answer: UOG confirms no storage required

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/9/2021 @ 3:14pm from vendor: Ability Solutions LLC

Question 1: Can you provide a copy of the transcript for the sign-in on inspection day?

Answer: Please refer to Amendment 3, item 1.3.

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/10/2021 @ 10:02am from vendor: Ability Solutions LLC

Question 1: May I inquire when the deadline is to deliver the equipment's?

Answer:	UOG confirms vendor to provide delivery	deadline.
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ATTENDENCE SHEET PRE-1310 CONF.
REQUEST FOR PROPOSAL (RFP) REGISTER 11/03/2/ 10000

ADMINISTRATION & FINANCE Consolidated Procurement Office

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### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

### **AMENDMENT 4**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 22, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 2 as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Names of Company: ALL-BUSINESS ENTERPRISES CORPORATION

ELIA F. BANGAYAN NOV. 30, 2021

Print Name/Signature/date

### QUESTION & ANSWER SHEET NO. 2 November 22, 2021

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/08/2021 @ 11:12am from vendor: Guam Pacific Enterprise, Inc.

Question 1:

1) The quote request is not clear what exactly is required because in Section 2.1.4, 2.2, 2.2.1, 2.2.1.1specified large split system. Large split system implies 1 condensing unit connected to one indoor air handler.

Then there is another specs on VRF SYSTEMS which are 1 set of outdoor condensing units connected to multiple indoor units. VRF is completely different animal to above large split systems. Please see 2.1,2.1.1,2.1.1.2.1.1.2

The lists of equipment could be condensing units for large split systems or VRF systems. Condensing units for large split systems can work with any air handler with DX coils. VRF condensing units could only work with indoor unit by the same manufacturer.

Question- Can you please clarify what is the design intention?

Answer:

UOG confirms this bid request is for a large split system condensing unit only.

Question 2:

Does UOG want VRF or large split systems?

Answer:

UOG Confirms there is no need for VRF/VRV units as Item Description/Location has been revised to remove Marine Lab requirement. Please refer to Amendment 3, item 1.2.

Question 3:

Does UOG only wants outdoor condensing unit?

Answer:

UOG confirms this bid request is for a large split system condensing unit only.

Question 4:

Is there any set of mechanical plans? Reason is for vendors to know the design intents, where each piece of equipment goes, what type of indoor units are needed., control design, etc. These are not off the shelf type products so it is very risky for the purchaser to buy equipment like this.

Answer:

UOG confirms no mechanical plans needed as required information is provided. Please refer to Exhibit A. Please refer to Exhibit B issued in Amendment 3, item 1.2.



### **ADMINISTRATION & FINANCE**Consolidated Procurement Office

### **AMENDMENT 5**

### Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 24, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Deadline for submission should read as follows: Monday, December 06, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Émily G. Gumataotao

Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: ALL BUSINESS ENTERPRISES CORPORATION

NELLA F. BANGAYAN

NOV. 30, 2021

Print Name/Signature/date



### Consolidated Procurement Office

### **AMENDMENT 6**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: December 3, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 3 as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name\_of\_company: ALL BUSINESS ENTERPRISES CORPORATION

NELIA P. BANGAYAN

NOV. 3, 2021

Print Name Signature/gate

### QUESTION & ANSWER SHEET NO. 3 December 3, 2021

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/05/2021 @ 2:28pm from vendor: Guam Pacific Enterprise, Inc.

Question 1: Did UOG remiss by requiring 15% Bid bond under Guam Law for a project that the funds being used is from financial assistance awards? (American Rescue Funds Act)

Argument. 15 % bid bond pursuant to Guam law only applies for local funds. 15% BID BOND substantially burdens the small business owners and the manufacturers that they are representing

Therefore, it is non compliant and inconsistent with the Section1 and 3 of Executive Order 14005 of President Biden's American Made Act Law. The bid bond should be waived.

Answer:

UOG confirms Bid security shall be required for all competitive sealed bidding for the procurement of supplies or services when the total price is estimated to exceed Twenty-Five Thousand Dollars (\$25,000.00). 5 G.C.A. §5212(a). Further, Bid security shall be in an amount equal to fifteen percent (15%) of the total amount bid. 5 G.C.A. §5212(b). There is no exception in the aforementioned Guam Procurement Law for solicitations made by Public Corporations, such as UOG, that are federally funded. When Invitation for Bids requires bid security, noncompliance requires that the bid be rejected. 5 G.C.A. §5212(e).

### **Deo Lagman**

From: UOG Procurement Bids <uog.bids@triton.uog.edu>

Sent: Friday, December 3, 2021 4:39 PM

To: Procurement Office

Subject: UOG IFB B21-17 : Purchasing of HVAC Equipment - AMENDMENT 6

Attachments: B21-17 AMEND 6.pdf

Håfa Adai & Good Afternoon,

Please see attached notice for the above referenced UOG IFB B21-17 - AMENDMENT 6.

All conditions of the bid remain the same.

Kind reminder, your original bid security should be receipted by our procurement office NLT bid submission deadline, Monday December 6, 2021 by 2pm.

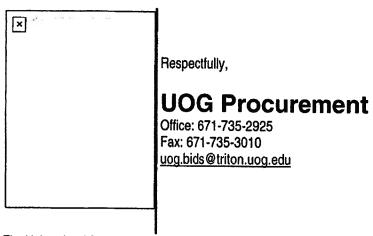
The link for bid opening and link to upload bid submissions to our electronic share folder will also be provided on Monday December 6, 2021. Please submit 1 PDF file.

Please acknowledge receipt.

Thank you & Stay safe!

Note: All Amendments are updated and uploaded on our UOG Procurement Site to be downloaded for your reference.

Si Yu'os ma'ase' & Have a nice day!,



The University of Guam is an equal opportunity provider and employer.

CONFIDENTIALITY STATEMENT: This message is from the University of Guam and contains information which is privileged and confidential and is solely for the use of the intended recipient. If you are not the intended recipient, any review, disclosure, copying, distribution, or use of the contents of this message is strictly prohibited. If you have received this transmission in error, please destroy immediately.



Consolidated Procurement Office

### INVITATION FOR BID (IFB) UOG BID No. B21-17

### The University of Guam is soliciting sealed bids for: PURCHASING OF HVAC EQUIPMENT

Copies of Instruction and Information may be obtained from: UOG Procurement Office

Uog.bids@triton.uog.edu Tel: (671) 735-2925

Fax: (671) 735-3010

UOG Administration Building Mangilao, Guam

Please visit <u>www.uog.edu/procurement</u> to obtain a copy of the Bid Package. Once your request is received, you will receive a link allowing you access and ability to download the PDF file.

A non-refundable fee of \$25.00 is ONLY required to submit a bid offer due before bid deadline. Payment may be made via cash, check or credit card at the UOG Business Office, Cashier Services located at the UOG Administration Building Mon-Fri from 8 am — 4 pm Pay by phone is available by contacting 735-2923/45/46, please reference Bid number and Bid title when making payment. Send proof of receipt to <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a>.

<u>Deadline for Submission</u> of Bid Packages is on **Monday, November 22, 2021** on or before 2:00 P.M. via electronic submission to electronic Bid Share folder provided by UOG Procurement Office. Bid Opening will take place at 3:00 pm through Zoom link provided to all bidders.

Note: Prospective bidders/respondents will automatically be registered with information provided on form when requesting for bid documents. Contact information should be accurate on ensure you receive any notices regarding any changes or updates to the IFB/RFP. UOG will not be liable for failure to provide notice to any party who inputs inaccurate contact information.

/s/Thomas W. Krise, Ph.D. President

University of Guam is an equal opportunity employer and provider. This Advertisement is paid for by University of Guam Funds.

### AUTHORIZED FOR ANNOUNCEMENT Thomas W. Krise, Ph.D. President

UOG Bid No. B21-17		Bid Registration Space below:	Set No.
(Registrat	REGISTER ion into the "B	AS AN INTERESTED BIDDER TO RECEIVE DIRECT U idders List" is automatic when the form to request a b	PDATES bid packet is received)
Name of Company: Physical Address:		Date:/ Payment Reference: Chec	sk No
Contact Person & 1	Title:		
Contact Numbers: E-Mail Address:	Tel	Fax Cellula	ar

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B), Blader's Qualifications (A# C); Bid Security (A# D); Affidavit Disclosing Ownership & Commissions	/Δ# F)·	
Affidavit re Non-Collusion (A# F); Affidavit re No Gratuities. Kickbacks and/or Favors (A# G): Affidavit r	e Ethical	
Standards (A# H); Declaration re Compliance with U.S. Department of Lahor (DOL) Wage Determination	on /A# II:	
Arridavit re Contingent Fees (A# J); Right to Accept & Reject Bids: Modifications Prior To Date Set for	Openina	
Bids, Method of Award; Submission of Bids, Failure to Submit Bid: Pre-Bid Conferences: Bid Packet: F	id Parket	
Form; Notice of Award; Local Procurement Preference; and Cancellation of Bid Prior to Date set for Bi	d Opening	
Attachment A General Terms & Conditions of the Invitation for Bids (Items 1 ~ 17)	07-00	+-
Terms and conditions regarding Compliance with Specifications: Late Rids, Late Withdrawals, 2 Late N	Andifications	
Determination of Lowest Responsible Bidders; Low Tie Bid: Taxes: Licensing: Equal Employment Opp	ortunity:	
Determination of Responsibility of Bidder; Justification of Delay: EEO & Equal Opportunity Provider: Fr	nnloument	
Restriction; Bid Security (A# D); Independent Contractor; Indemnity; Contractor Provided Insurance; th	npioyinein o	
University's Green Protocols; and Biodegradable, Reusable, Recyclable Materials		
Attachment B Special General Provisions (Items 1 ~ 9)	10-11	+-
General Intention; Competency of Bidders: Contact for Contract Administration: Inspection: Rid Forms:	Rid	
Envelope; Receipt, Opening & Recording of Bids; Confidential Data; and Inquiries.	Dia	
Attachment C Bidder's Qualifications (Items 1 ~ 3)	12	1
Attachment D Bid Security (Bid Bond)	13	1
Attachment E Affidavit re Disclosing Ownership & Commissions (Revised AG Form 002)	14	17
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Attachment G Affidavit re No Gratuities, Kickbacks and/or Favors (Revised AG Form 004)	16	1
Attachment H Affidavit re Ethical Standards (Revised AG Form 005)	17	1
Attachment   Declaration re Compliance with U.S. DOL Wage Determinations (Revised AG Form 00	11	1
Attachment J Affidavit re Contingent Fees (Revised AG Form 007)	10) 10	1
Serving State Coop ( Notice of 10 from Cor)	19	-
BID SPECIFICATIONS / SCOPE OF WORK / BID PRICE		ļ
Exhibit A BID SPECIFICATIONS	- 20	1
Exhibit B SCOPE OF PURCHASING HVAC EQUIPMENT FOR THE UOG	20	1
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(NOTE: "✓" Identifies this form is a "Required Bid Submittal Document" to be submitted with	bidder's	
proposal \		l

### UNIVERSITY OF GUAM INVITATION FOR BID UOG BID NO. B21-17

### **PURCHASING OF HVAC EQUIPMENT**

DATE ISSUED:

October 22, 2021

**UOG SECTION:** 

FACILITIES MANAGEMENT & SERVICES (FMS),

**ADMINISTRATION & FINANCE** 

ISSUED BY:

**UOG CONSOLIDATED PROCUREMENT OFFICE** 

TELEPHONE NO.: (671) 735-2925 FAX NO.: (671) 735-3010

Email: uoq.bids@triton.uog.edu

### **INSTRUCTIONS TO BIDDERS**

1. RECEIPT AND OPENING OF BIDS: Sealed bids for UOG B21-17 PURCHASING OF HVAC

EQUIPMENT for the University of Guam (UOG must be received by the Procurement Office no later than:

TIME: 2:00 P.M. DATE: Monday Navamber 23, 2004

TIME: 2:00 P.M. DATE: Monday, November 22, 2021

Bid submitted after the time and date specified above shall be rejected. Bid opening will be conducted electronically via Zoom Link at 3:00 pm; link will be provided through email to all registered offerors.

Attention is called to the fact that bidders not only offer to assume the obligations and liabilities imposed upon the contractor in the form of a contract, but are expressly made certain of the representations and warrants made herein. No effort is made to emphasize any particular provision of the contract, but bidders must familiarize themselves with every provision and its effect. This Bid is subject to General Terms and Conditions of the Invitation for Sealed Bids (Attachment A) and the Special General Provisions (Attachment B).

In consideration of the expense of the University of Guam of opening, tabulating, and evaluating this and other bids, and other considerations, the undersigned agrees that this bid shall remain firm and irrevocable within sixty (60) calendar days from the date of opening to supply any or all of items for which prices are quoted.

- 2. BIDDER'S QUALIFICATIONS (Attachment C): The University of Guam may require a bidder to present satisfactory evidence that he has sufficient experience and he is fully prepared, thus it is required that the bidder completely fill out the Bidder's Qualifications Form.
- 3. NON-COLLUSION AFFIDAVIT (Attachment D): Each person submitting a bid for any portion of the work covered by the bidding documents shall execute an affidavit, in the form provided with the Bid to the

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effect that he has not colluded with any other person, firm or corporation in regard to any bid submitted. Such affidavit shall be attached to the proposal.

- 4. MAJOR SHAREHOLDERS AFFIDAVIT (Attachment E): As a condition to submitting of bids or proposals, any partnership, sole proprietorship or corporation doing business with the University of Guam shall submit an affidavit that lists the name and address of any person who has held more than ten percent (10) of outstanding shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a proposal. The affidavit shall contain the number of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have been held by each person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for the procuring or assisting in obtaining business related to the bid or proposal for the Offeror and shall contain the amounts of any shall commission, gratuity or other compensation. The affidavit shall be open and available for inspection and copying.
- 5. AFFIDAVIT RE GRATUITIES, KICKBACKS AND FAVORS (Attachment G): The bidder, offeror or contractor represents that it will not violate the prohibition against gratuities and kickbacks and favors set forth (Gratuities and Kickbacks) in 5 GCA, Chapter 5, Article 11, Ethics in Public Contracting and Section 11.7 (Gratuities and Kickbacks and Favors) of the UOG Procurement Manual.
- 6. AFFIDAVIT RE ETHICAL STANDARDS (Attachment H): The bidder, offeror, or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a government employee to breach any of the ethical standards set forth in 5 GCA, Chapter 5, Article 11, and in Chapter 11 (Ethics in Public Contracting) of the UOG Procurement Manual.
- 7. COVENANT AGAINST CONTINGENT FEES (Attachment I): The prospective contractor represents as part of such contractor's bid or proposal that such contractor has/has not (Circle applicable word or words) retained any person or agency on a percentage, commission, or other contingent arrangement, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.
- 8. DECLARATION RE COMPLIANCE WITH U.S. DEPARTMENT OF LABOR WAGE DETERMINATION (Attachment J): In accordance with 5 GCA §§ 5801 and 5802, as may be applicable, each bidder certifies that any of its employees whose purpose, in whole or in part, is the direct delivery of service contracted by the University shall be paid in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the University, including health and other similar benefits. The updated wage rate with the most current revision shall be included in the bid submission.
- 9. RIGHT TO ACCEPT AND REJECT BIDS: The President of the University of Guam reserves the unqualified right, in his sole and absolute discretion, to reject any and all bids, or to accept that bid or combination of bids, if any, which in his sole and absolute judgment will under all circumstances best serve the interests of the University of Guam. In the event that the successful bidder fails to execute the contract upon his part or to furnish a satisfactory performance and payment bond, the University, after declaring the security deposit of such bidder forfeited, reserves the option to accept the bid of any other bidder within ten (10) days from such default, in which case such acceptance shall have the same effect as to such bidder as though he was the originally successful bidder.

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- 10. MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS: The University reserves the right to revise or amend the specifications prior to the date set for opening bids. Such revisions and amendments, if any, will be announced by an amendment or amendments to this Invitation for Bids and shall be identified as such. It is required that the bidders acknowledge in writing receipt of all amendments issued and such acknowledgment must be included in the bid. The amendment shall refer to the portions of the Invitation for Bids it amends. Amendments shall be sent to all prospective Bidders known to have received an Invitation for Bids. Amendments shall be distributed within a reasonable time to allow prospective Bidders to consider the amendment in preparing their Bids. If the time and date set for receipt of bids will not permit such preparation, such time shall be increased to the extent possible in the amendment or, if necessary, by email or telephone and confirmed in the amendment.
- 11. CANCELLATION OF SOLICITATION: Prior to the date set for opening bids, a solicitation may be cancelled in whole or in part when the President or his designee determines in writing that the cancellation of the solicitation is in the University's best interest, in accordance with the University's Procurement Rules and Regulations.
- 12. METHOD OF AWARD: Bid shall be awarded to the [x] lowest, [] highest, responsible and responsive bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids. A responsible bidder is one who has the capability in all respects to perform fully the contract requirements, and the integrity and reliability which will assure good faith performance. A responsive bidder is one who has submitted a bid which conforms in all material respects to the Invitation for Bids. The University reserves the right to waive any minor information of irregularity in Bids received. The President shall have the authority to award or reject Bids, in whole or in part for any one or more items if he determines it is in the public interest.

Award issued to the [x] lowest, [] highest, responsible and responsive bidder within the specified time for acceptance as indicated in the Bid, results in a binding contract without further action by either party provided the successful bidder executes a formal contract with the University. In case of any error in the extension of prices, unit price will govern. It is the policy of the Government of Guam to award Bids to qualified local vendors.

### 13. SUBMISSION OF BIDS:

- a. Bids and modifications thereof shall be submitted through electronic submission to the Share folder that UOG procurement office provides and addressed to the office specified in the Solicitation. The electronic file submission will show the hour and date of submission as specified in the Solicitation for receipt. The file should identify the Solicitation number, and the name of the bidder.
- **b.** Bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 9 of these instructions).
- c. Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the University, at no expense to the University. If not destroyed by testing, samples will be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
- d. Samples or descriptive literature should not be submitted unless it is required on this Solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any of the provisions of this Solicitation.

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- 14. FAILURE TO SUBMIT BID: If no bid is to be submitted, do not return the Solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation is desired.
- 15. PRE-BID CONFERENCES. Pre-Bid conferences will be permitted any time prior to the date established herein for submission of bid. The conferences will be conducted only to explain the procurement requirements for this Request for Proposal. The Authority will notify all Bidders of any substantive clarification provided in response to any inquiry. The Authority will extend the due date if such information significantly amends the solicitation or makes compliance with the original proposed due date impractical.
- 16. BID PACKET. The prospective bidder is required to read each and every page of the Bid Packet and by the act of submitting a proposal shall be deemed to have accepted all conditions contained therein. In no case will failure to inspect constitute grounds for claim or for the withdrawal of a bid after opening. Bid submission shall be sent electronically. Erasures or other changes in a bid must be explained or noted over the signature of the offeror. Bid submission containing any conditions, omissions, unexplained erasure or alterations or items not called for in the Bid packet, or irregularities of any kind may be rejected by the University as being incomplete.
- 17. BID PACKET FORM. A non-refundable fee of \$25.00 (U.S.) shall be charged to submit a bid offer. All payments shall be made by cash, certified check or money order to the University of Guam. Cashier services are located at the UOG Administration Building Mon-Fri from 8am-4pm. Pay by phone is also available from 8am-4pm at 735-2923/45/46.
- 18. NOTICE OF AWARD. UOG will notify all bidders the status of the Bid and Notice of Award. Written notice of award will be public information and made a part of the contract file.
- 19. LOCAL PROCUREMENT PREFERENCE: "All procurement of supplies and services shall be made from among businesses licensed to do business on Guam in accordance with Guam Code Annotated Title 5 Chapter 5 Section 5008 and UOG Procurement Regulation Section 3.9.14.5."
- 20. BIODEGRADABLE, REUSEABLE, RECYCLABLE MATERIALS: 2 GAR Section 1102.2 (UOG Procurement Regulations Section 1.5) Bio-degradable, Reusable, Recyclable or Recycled Material or Any Combination: The Chief Procurement Officer, the Director of Public Works, or the head of the Purchasing Agency shall, whenever possible, procure products that are biodegradable, reusable, recyclable, or made of recycled material, or any of these in any combination. The cost (prior to any adjustments for local vendors) of appropriate biodegradable, reusable, recyclable, or recycled products may be as much as ten percent (10%) greater than the cost of the non-biodegradable, non-reusable, non-recyclable, or non-recycled products they are replacing.

#### **ATTACHMENT A**

## GENERAL TERMS AND CONDITIONS FOR THE INVITATION FOR BIDS

- 1. COMPLIANCE WITH SPECIFICATIONS: Bidder should comply with specifications outlined.
- 2. LATE BIDS, LATE WITHDRAWALS, AND LATE MODIFICATIONS:

Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of a bid received after the time and date set for opening of bids at the place designated for opening is late. (Section 3.9.11.1, University of Guam Procurement Manual).

- 3. DETERMINATION OF LOWEST RESPONSIBLE BIDDERS: In determining lowest responsible bidder, the University shall be guided by the following:
  - (a) Price of bid items.
  - (b) The ability, capacity, and skill of the bidder to perform.
  - (c) Whether the bidder can perform promptly or within the specified time.
  - (d) The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
  - (e) The quality of performance of the bidder with regards to awards previously made to him.
  - (f) The previous and existing compliance by the bidder with laws and regulations relative to procurement.
  - (g) The sufficiency of the financial resources and ability of the bidder to perform.
  - (h) The quality, availability, and adaptability of the supplies for the use of the subject of the award.
  - (i) The ability of the bidder to provide future maintenance and services for the use of the subject of the award.
  - (j) The number and scope of the conditions attached to the bid.
- 4. LOW TIE BIDS: Low tie bids are low responsive bids from responsible bidders that are identical in price and which meet all the requirements and criteria set forth in the Invitation for Bids. Award shall not be made by drawing lots, except as set forth UOG Procurement Regulations Section 3.9.15, or by dividing business among identical bidders.
- 5. TAXES: Bidders are cautioned that they are subject to Guam Business Privilege Taxes, including 4% Gross Receipt Tax and Guam Income Taxes on Guam Transactions. Specific information of taxes may be obtained from the Director of Revenue and Taxation.
- 6. LICENSING: Bidders are cautioned that the University will not consider for award any Bid Offer submitted by a bidder who has not complied with Guam Licensing Law. Specific information on licenses may be obtained from the Director of Revenue and Taxation.
- 7. EQUAL EMPLOYMENT OPPORTUNITY: Section 3.01(1) of the President Executive Order No. 10935 dated March 7, 1965, requires the bidder not to discriminate against any employee or applicant for employment because of race, creed, color or national origin. The bidder will take affirmative action to

ensure that applicants are employed and the employees are treated equally during employment without regard to their race, creed, color or national origin.

- 8. DETERMINATION OF RESPONSIBILITY OF BIDDER: The University reserves the right for securing from bidders information necessary to determine whether or not they are responsible and to determine the responsibility in accordance with Section 3 of the General Terms and Conditions.
- 9. JUSTIFICATION OF DELAY: Vendors who are awarded items under the Bid guarantee that the goods will be delivered to their destination within the time specified. If the vendor is not able to meet the specified delivery date, he is required to notify the purchasing agent of such delay. Notification shall be in writing and should be received by the agent at least twenty-four (24) hours before the specified delivery date. Notification of delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The University of Guam reserves the right to reject delay justification if in the opinion of the President such justification is not adequate.
- 10. EQUAL OPPORTUNITY EMPLOYER AND PROVIDER: It is the policy of the University of Guam to provide equal opportunity in its higher educational mission and as employer. The University complies with all federal and local statutes, rules and regulations which prohibit discrimination in its policies and practices and direct affirmative action, including but not limited to Titles VII and IX of the Civil Rights Act of 1964 (as amended), Executive Order 11246, and the Equal Pay act of 1963 (as amended). The University shall promote a full realization of equal opportunity through a positive, continuing program, including a requirement that those doing business with the University also are equal opportunity employers.
- EMPLOYMENT RESTRICTION: If a contract for services is awarded to the bidder or offeror, then 11. the service provider must warrant that no person in its employment who has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 of the Guam Code Annotated or of an offense defined in Article 2 of Chapter 28 of Title 9 of the Guam Code Annotated, or who has been convicted in any other jurisdiction of an offense with the same elements as heretofore define, or who is listed on the Sex Offender Registry, shall provide services on behalf of the service provider while on University of Guam property, with the exception of public highways. If any employee of a service provider is providing services on University property and is convicted subsequent to an award of a contract, then the service provider warrants that it will notify the University of the Conviction, within twenty-four hours of the conviction, and will immediately remove such convicted person from providing services on University property. If the service provider is found to be in violation of any of the provisions of this paragraph, then the University will give notice to the service provider to take corrective action. The service provider shall take corrective action within twenty-four hours of notice from the University, and the service provider shall notify the University when action has been taken. If the service provider fails to take corrective steps within twenty-four hours of notice from the University, then the University in its sole discretion may suspend temporarily any contract for services until corrective action has been taken.
- 12. (X) (Required if checked) BID SECURITY REQUIREMENT (Attachment D): Bidder is required to submit a Bid Security or standby irrevocable Letter of Credit or Certified Check or Cashier's Check or other security supplied in a form satisfactory to the University in the same bid envelope to be held by the University of Guam (UOG). A bidder should contact the University for Pre-approval of the bid security requirement before the deadline for submission of bid packages if it is proposing security in a form not specifically listed above. The bid security required under any applicable invitation for Bid shall not be released upon award of the bid, but instead shall continue in full force and effect until delivery of the

supplies or services required by any contract awarded to contractor under the associated Invitation for Bid is completed. The Bid Security, Letter of Credit, Certified Check or Cashier's Check must be issued by any local surety or banking institution licensed to do business on Guam and made payable to the University of Guam in the amount of fifteen percent (15%) of the total amount bid. The Original Bid Security must be submitted to the UOG Procurement office on or before bid submission deadline. Personal Checks will not be accepted as Bid Security.

If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribed time, such Bid guarantee will be forfeited to the University of Guam. Bids will be disqualified if not accompanied by Bid Security, Letter of Credit, Certified Check or Cashier's Check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services, exceeding \$25,000.00, a 15% Bid Security of the total bid price must accompany the bid package.) When the Invitation for Bids requires bid security, non-compliance requires that the bid be rejected unless, pursuant to Policy Office regulations, it is determined that the bid fails to comply in a non-substantial manner with the security requirements.

- 13. INDEPENDENT CONTRACTOR: Contractor shall operate its business as an independent contractor and shall discharge all of its duties as such. No act performed or representation made, whether oral or written by Contractor with respect to third parties shall be binding on UOG.
- 14. INDEMNITY: Contractor agrees to indemnify and hold harmless UOG and its officers and employees from any claim, damage, liability, injury, expense or loss, including defense costs and attorney's fees, arising out of Contractor's duties under this agreement resulting from Contractor's negligence, save and except those caused by the negligence on the part of UOG.

#### **ATTACHMENT B**

## **SPECIAL GENERAL PROVISIONS**

- 1. GENERAL INTENTION: It is the declared and acknowledged intention and meaning of this Special General Provision for the Bidder to provide the University of Guam with materials, supplies, or equipment completely assembled, and ready for use.
- 2. COMPETENCY OF BIDDERS: Bids will be considered only from such bidders who, in the opinion of the University, can show evidence of their ability, experience, and facilities to render satisfactory service.
- 3. CONTACT FOR CONTRACT ADMINISTRATION: If your firm receives a contract as a result of this invitation, please designate a person whom we may contact for prompt administration.

NAME:	nelia f.		•		PRESIDENT			
NAME O	ALL BUSINES F COMPANY:	S ENTERP	RISES CORPOR	ATION	P.O.BOX	8410,	TAMUNING, GUAM	96931
TEL: <u>67</u>	1-646-4435	_FAX:6	71-6460589	E-Mail Ad	dress: nban	gayan@	jbmoderntech.co	)m

- 4. INSPECTION: All supplies, materials, or equipment delivered under this contract shall be subject to the inspection and test conducted by the University at destination. If, in any case, the supplies, materials, or equipment are found to be defective in material, workmanship, performance or otherwise does not conform to the specifications, the University shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the University of Guam.
- 6. BID ELECTRONIC FILE: Bid file shall be marked with the bidder's name, bid invitation number, and bid title.

NOTE: UNDER NO CIRCUMSTANCES WILL LATE BIDS BE ACCEPTED BY THIS OFFICE.

- 7. RECEIPT, OPENING AND RECORDING OF BIDS: Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bid. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 8, below. Materials so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary.
- 8. CONFIDENTIAL DATA: The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of UOG Procurement Regulations, the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data.

9. INQUIRIES: All inquiries or questions and concerns must be submitted to the President of the University of Guam in writing through the procurement office at <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a>. Oral communications will not be considered.

### **ATTACHMENT C**

### **BIDDER'S QUALIFICATIONS**

To be submitted in accordance with the provisions set forth in the INSTRUCTIONS TO BIDDERS contained in the bidding documents for the project.

The undersigned Bidder makes the following representations relating to its proposal to the UNIVERSITY OF GUAM.

The word "it", used herein by way of reference to the undersigned, shall be deemed to mean "he or she" if the Bidder is an individual and "they" if the Bidder is a partnership

1. It maintains a permanent place of business at

153 B HARMON INDUSTRIAL PARK,
TAMUNING, GUAM 96913

- 2. STANDARD FOR DETERMINATION OF QUALIFIED BIDDER: In order to qualify as responsible, a prospective bidder must meet the following standards as they relate to the particular procurement under consideration:
  - (a) Has adequate financial resources for performance, or has the ability to obtain such resources as required during performance.
  - (b) Has the necessary experience, organization, technical qualifications, skills, and facilities, or has the ability to obtain them.
  - (c) Is able to comply with the proposed or required performance schedule.
  - (d) Has a satisfactory record of integrity, judgment, and performance.
  - (e) Must be able to conform to the requirements of the Equal Employment Opportunity Act.
- 3. It hereby represents and warrants that all statements set forth herein are true and correct. (If the Bidder is a partnership, the partnership name must be signed, followed by the signature of at least one of the partners. If the Bidder is a corporation, the corporate name must be signed, followed by the signature of a duly authorized officer and the corporate seal affixed. A typewritten copy of all such names and signatures shall be appended. No alterations, erasures, corrections or interlineations will be permitted).

NELIA F. BANGAYAN - PRESIDENT

NAME OF BIDDER

# ATTACHMENT D BID SECURITY

## BID BOND NO. B21-17

KNOW ALL MEN BY Thereinafter called the called to the call	inafter called the "Surety"	and luly admitted in: ', are held firmly Dollars (\$ and the said Sure	(Bonding surer under the bound unto the), fo	Company), e laws of the e University of or payment of ves our beirs
Whereas, the Principal has subr				
NOW, THEREFORE, if the University of into a Contract with the University of bonds as may be specified in bidding performance of such Contract and for thereof. In the event of the failure of Principal shall pay to the University amounts specified in said bid and such contract with another party to perform specified in the Invitation for Bid, the force and effect.	of Guam in accordance with or Contract Documents or the prompt payment of for the Principal to enter such or Guam the difference of such larger amount for whom work covered by said	h the terms of substituting the terms of substituting the terms of substituting the terms of the terms of the University of Universi	ich bid, and give sufficient surety is all furnished in the give such bond one penalty hereof ty of Guam may ropriate liquidate.	such bond or for the faithful he prosecution or bonds, if the f between the or in good faith
Signed and sealed this	day of	, 20		
		PRINCIPAL)	(SEAL)	CASH BOND CASHIERS CHECK
(WITNESS)	<del></del>			SURMITTED
(TITLE)	(MAJOR OF	FICER OF SUR	ETY)	
(MAJOR OFFICER OF SURETY)		(TITLE)		
(TITLE)	(RESIDENT	GENERAL AGE	NT)	

# ATTACHMENT E MAJOR SHAREHOLDER DISCLOSURE AFFIDAVIT

CITY OF HESSIAM,	100
ISLAND OF GUAM	) <b>55</b> .

- A. I, the undersigned, being first duly sworn depose and say that I am an authorized representative of the offeror and that (please check only one):
- ( ) The offeror is an individual or sole proprietor and owns the entire (100%) interest in the offering business.
- The offeror is a corporation, partnership, joint venture, or association known as

  ALL BUSINESS ENTERPRISES CORPORATION (please state name of offeror company), and the persons, companies, partners, or joint ventures who have held more than 10% of the shares or interest in the offering business during the 365 days immediately preceding the submission date of the proposal are as follows (if none, please so state):

NELIA F. BANGAYAN	P.O.BOX	ADDRESS 9788,TAMUNING, GUAM 96931	% of <u>Interest</u>
HANNAH BANGAYAN	P.O.BOX	9788, TAMUNING, GUAM 96931	45

B. Further, I say that the persons who have received or are entitled to receive a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the bid or proposal for which affidavit is submitted are as follows (if none, please so state):

NAME

#### **ADDRESS**

Compensation

C. If the ownership of the offering business should change between the time this affidavit is made and the time an award is made or a contract is entered into, then I promise personally to update the disclosure required by 5 GCA § 5233 by delivering another affidavit to the government.

Signature of one of the following:
Offeror, if the offeror is an individual;
Partner, it the offeror is a partnership;
XX Officer, if the offeror is a corporation

Subscribed and sworn to before me

This day of 0

NOTARY PUBLIC
My commission expires

JOSEPH B. QUINTANILLA, JR.

NOTARY PUBLIC In and for Guam U.S.A.

My commission expires: August 17, 2023 P. O. Box 22649 Barrigada, Guam 96921

AG Procurement Form 002 (Rev. Nov 17, 2005)

が好ら、BID 知ら、B21-17 PURCHASING OF HVAC EQUIPMENT

## ATTACHMENT F AFFIDAVIT re NON-COLLUSION

AFFIDAVIT TE NON-COLLUSION
CITY OF Hagadaa,
) ss. ISLAND OF GUAM )
NELIA F. BANGAYAN (state name of affiant singing below), being first dul sworn deposes and says that:
The name of the offering company or individual is (state name of company     ALL BUSINESS ENTERPRISES CORPORATION

- 2. The proposal for the solicitation identified above is genuine and not collusive or a sham. The offeror has not colluded, conspired, connived or agreed, directly or indirectly, with any other offeror or person, to put in a sham proposal or to refrain from making an offer. The offeror has not in any manner, directly or indirectly, sought by an agreement or collusion, or communication or conference, with any person to fix the proposal price of offeror or of any other offeror, or to fix any overhead, profit or cost element of said proposal price, or of that of any other offeror, or to secure any advantage against the government of Guam or any person interested in the proposed contract. All statements in this affidavit and in the proposal are true to the best of the knowledge of the undersigned. This statement is made pursuant to 2 GAR Division 4 § 3126(b).
- 3. I make this statement on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

Signature of one of the following:

Offeror, if the offeror is an individual; Partner, if the offeror is a partnership; XX Officer, if the offeror is a corporation

Subscribed and sworn to before me

This day of Dec., 2

JOSEPH B. QUINTANILLA, JR. NOTARY PUBLIC

In and for Guam U.S.A. My commission expires: August 17, 2023 P. O. Box 22649 Barrigada, Guam 96921

NOTARY PUBLIC

My commission expires

(AG Procurement Form 003 (Jul. 12, 2010)

OTAUDG BID NO B21-17 PURCHASING OF HVAC EQUIPMENT

## ATTACHMENT G <u>Affidavit re gratuities, kickbacks</u> and favors

ALTIDATITE G	INATOTIES, RICKBACKS AND FAVORS
CITY OF Flagstna,	
ISLAND OF GUAM )	
NELIA F. BANGAYAN	(state name of affiant signing below), being first duly sworn,
deposes and says that:	

- 1. The name of the offering firm or individual is (state name of offeror company)

  ALL BUSINESS ENTERPRISES CORPORATIONAffiant is NELTA F. BANGAYAN (state one of the following: the offeror, a partner of the offeror, and officer of the offeror) making the foregoing identified bid or proposal.
  - 2. To the best of affiant's knowledge, neither affiant, nor any of the offeror's officers, representatives, agents subcontractors, or employees have violated, are violating the prohibition against gratuities, kickbacks and favors set forth in UOG Procurement Manual Section 11.7 Further, affiant promises, on behalf of offeror, not to violate the prohibition against gratuities, kickbacks and favors as set forth in UOG Procurement Manual Section 11.7.
  - 3. To the best of affiant's knowledge, neither affiant, nor any of the offeror's officers, representatives, agents, subcontractors, or employees have offered, given or agreed to give, any government of Guam employee or former government employee, any payment, gift, kickback, gratuity or offer of employment in connection with the offeror's proposal.
  - 4. I make this statement on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

Signature of one of the following:

Offeror if the offeror is an individual;
Partner, if the offeror is a partnership;

XX Officer, if the offeror is a corporation

Subscribed and sworn to before me

This and day of Dec, 20 2

MOTARY PUBLIC

My commission expires

(AG Procurement Form 004 (Jul. 12, 2010)

JOSEPH B. QUINTANILLA, JR.
NOTARY PUBLIC

In and for Guam U.S.A.
My commission expires August 17, 2023

## ATTACHMENT H AFFIDAVIT RE ETHICAL STANDARDS

AFFIDAVIT RE ETHICAL STANDARDS
CITY OF Hagatha
ISLAND OF GUAM )
NELIA F. BANGAYAN (state name of affiant signing below), being first duly sworn, deposes and says that:
The affiant is
Signature of one of the following:  Offeror if the offeror is an individual;  Partner if the offeror a partnership;  XX Officer, if the offeror is a corporation.
Subscribed and sworn to before me  This day of Dee , 20    NOTARY PUBLIC  NOTARY PUBLIC  In and for Guam U.S.A.  My commission expires: August 17, 2023 P. O. Box 22649 Barrigada, Guam 96921

(AG Procurement Form 005 (Jul. 12, 2010)

My commission expires

## ATTACHMENT J **AFFIDAVIT re CONTINGENT FEES**

CITY OF	-lagatra,	
ISLAND OF	' '	) SS

NELIA F. BANGAYAN (state name of affiant signing below), being first duly sworn, deposes and says that:

- 1. The name of the offering company or individual is (state name of company) ALL BUSINESS ENTERPRISES CORPORATION
- 2. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained any person or agency on a percentage, commission, or other contingent arrangement to secure this contract. This statement is made pursuant to UOG Procurement Manual Section 11.8.2
- 3. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained a person to solicit or secure a contract with the government of Guam upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. This statement is made pursuant to UOG Procurement Manual Section 11 8 1

4. I make these statements on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

Signature of one of the following:

Offeror, if the offeror is an individual; Paltner, if the offeror is a partnership: xx Officer, if the offeror is a corporation

Subscribed and sworn to before me

NOTARY PUBLIC My commission expires

(AG Procurement Form 007 (Jul 15, 2010)

JOSEPH B. QUINTANILLA, JR. NOTARY PUBLIC

In and for Guam U.S.A

My commission expires: August 17, 2023 P. O. Box 22649 Barrigada, Guam 96921

**B21-17 PURCHASING OF HVAC EQUIPMENT** 

# ATTACHMENT I DECLARATION re COMPLIANCE WITH U.S. DOL WAGE DETERMINATIONS

Procurement No.:	HAC DIE	3 D24 47
i localellielit 140.,		J DZ 1-17

Name of Offeror Company: ALL BUSINESS ENTERPRISES CORPORATION

	, NELIA F. BANGAYAN	hereby certify under penalty of perjury:
(1)	That I amPRESIDENT offeror, an officer of the offeror) making the bid of	(please select one: the offeror, a partner of the proposal in the foregoing identified procurement;
(2)	That I have read and understand the provisions	of 5 GCA § 5801and 5802 which read:
	§ 5801. Wage Determination Established.	

In such cases where the government of Guam enters into contractual arrangements with a sole proprietorship, a partnership or a corporation ("contractor") for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose, in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.

The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, which shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause, then at the time of renewal adjustments, there shall be made stipulations contained in the contract for applying the Wage Determination, as required by this Article, so the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply. § 5802. Benefits.

In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimum of ten (10) paid holidays per annum per employees.

- (3) That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the procurement referenced herein;
- (4) That I have attached the most recent wage determination applicable to Guam issued by the U.S. Department of Labor. (INSTRUCTIONS Please attach most updated version to bid package) (AG Procurement Form 006 (Feb. 16, 2010)

"REGISTER OF WAGE DETERMINATIONS UNDER | U.S. DEPARTMENT OF LABOR
THE SERVICE CONTRACT ACT | EMPLOYMENT STANDARDS ADMINISTRATION

By direction of the Secretary of Labor | WAGE AND HOUR DIVISION WASHINGTON D.C. 20210

Wage Determination No.: 2015-5693

Daniel W. Simms Division of Revision No.: 13

Director Wage Determinations Date Of Last Revision: 08/04/2021

Note: Under Executive Order (EO) 13658 an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2015. If this contract is covered by the EO the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination if it is higher) for all hours spent performing on the contract in calendar year 2021. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

States: Guam Northern Marianas Wake Island

Area: Guam Statewide

Northern Marianas Statewide

Wake Island Statewide

\*\*Fringe Benefits Required Follow the Occupational Listing\*\*

OCCUPATION CODE - TITLE FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations	
01011 - Accounting Clerk I	13.57
01012 - Accounting Clerk II	15.23
01013 - Accounting Clerk III	17.04
01020 - Administrative Assistant	21.43
01035 - Court Reporter	17.40
01041 - Customer Service Representative I	11.51
01042 - Customer Service Representative II	12.94
01043 - Customer Service Representative III	12.94
01051 - Data Entry Operator I	
01052 - Data Entry Operator II	12.15
01060 - Dispatcher Motor Vehicle	13.25
01070 - Document Preparation Clerk	17.39
01090 - Duplicating Machine Operator	13.85
01111 - General Clerk I	13.85
01112 - General Clerk II	10.35
01113 - General Clerk III	11.29
01120 - Housing Referral Assistant	12.68
01141 - Messenger Courier	19.39
01191 - Order Clerk I	11.37
01191 - Order Clerk I 01192 - Order Clerk II	12.57
	13.71
01261 - Personnel Assistant (Employment) I	15.95
01262 - Personnel Assistant (Employment) II	17.85
01263 - Personnel Assistant (Employment) III	19.89
01270 - Production Control Clerk	21.78
01290 - Rental Clerk	11.10

	- Scheduler Maintenance	15.55
	- Secretary I	15.55
	- Secretary II - Secretary III	17.40
	- Service Order Dispatcher	19.39
	- Supply Technician	15.40
	- Survey Worker	21.43 16.96
	- Switchboard Operator/Receptionist	10.36
01531	- Travel Clerk I	13.01
	- Travel Clerk II	14.12
	- Travel Clerk III	15.09
	- Word Processor I - Word Processor II	14.53
	- Word Processor II	16.31
	Automotive Service Occupations	18.26
05005	- Automobile Body Repairer Fiberglass	15.46
05010	- Automotive Electrician	14.52
	- Automotive Glass Installer	13.58
	- Automotive Worker	13.58
	- Mobile Equipment Servicer	11.65
05130	- Motor Equipment Metal Mechanic	15.46
05160	- Motor Equipment Metal Worker	13.58
	- Motor Vehicle Mechanic	15.46
	- Motor Vehicle Mechanic Helper	10.66
	- Motor Vehicle Upholstery Worker	12.64
	- Motor Vehicle Wrecker - Painter Automotive	13.58
	- Radiator Repair Specialist	14.52
05370	- Tire Repairer	13.58
	- Transmission Repair Specialist	12.67 15.46
07000 -	Food Preparation And Service Occupations	15.40
	- Baker	10.47
07041	- Cook I	13.26
-	- Cook II	15.46
	- Dishwasher	9.31
	- Food Service Worker	9.45
	- Meat Cutter	12.13
	- Waiter/Waitress	9.27
09000 -	Furniture Maintenance And Repair Occupations	
00010	- Electrostatic Spray Painter - Furniture Handler	18.04
	- Furniture Refinisher	10.95
	- Furniture Refinisher Helper	18.04
	- Furniture Repairer Minor	13.27 15.70
	- Upholsterer	18.04
	General Services And Support Occupations	10.04
11030	- Cleaner Vehicles	9.35
11060	- Elevator Operator	9.54
	- Gardener	13.00
	- Housekeeping Aide	9.54
	- Janitor	9.54
	- Laborer Grounds Maintenance	9.82
	- Maid or Houseman	9.32
	- Pruner	8.79
	- Tractor Operator - Trail Maintenance Worker	11.90
	- Window Cleaner	9.82
	Health Occupations	10.66
	- Ambulance Driver	18.23
	- Breath Alcohol Technician	18.23
	- Certified Occupational Therapist Assistant	25.01
	- Certified Physical Therapist Assistant	25.01
12020	- Dental Assistant	16.32
	- Dental Hygienist	36.12
12030	- EKG Technician	25.99

12035 - Electroneurodiagnostic Technologist		25.99
12040 - Emergency Medical Technician		18.23
12071 - Licensed Practical Nurse I		16.30
12072 - Licensed Practical Nurse II		18.23
12073 - Licensed Practical Nurse III 12100 - Medical Assistant		20.32
12130 - Medical Laboratory Technician		12.26
12160 - Medical Record Clerk		18.82
12190 - Medical Record Technician		13.61
12195 - Medical Transcriptionist		17.77 16.30
12210 - Nuclear Medicine Technologist		40.06
12221 - Nursing Assistant I		11.34
12222 - Nursing Assistant II		12.75
12223 - Nursing Assistant III		13.91
12224 - Nursing Assistant IV		15.61
12235 - Optical Dispenser		18.23
12236 - Optical Technician		16.30
12250 - Pharmacy Technician		15.49
12280 - Phlebotomist		16.30
12305 - Radiologic Technologist 12311 - Registered Nurse I		25.33
12312 - Registered Nurse II		23.18
12313 - Registered Nurse II Specialist		28.36
12314 - Registered Nurse III		28.36 34.32
12315 - Registered Nurse III Anesthetist		34.32
12316 - Registered Nurse IV		41.13
12317 - Scheduler (Drug and Alcohol Testing)		22.58
12320 - Substance Abuse Treatment Counselor		22.58
13000 - Information And Arts Occupations		22123
13011 - Exhibits Specialist I		21.20
13012 - Exhibits Specialist II		26.27
13013 - Exhibits Specialist III		32.13
13041 - Illustrator I 13042 - Illustrator II		21.20
13042 - Illustrator II 13043 - Illustrator III		26.27
13047 - Librarian		32.13
13050 - Library Aide/Clerk		29.09
13054 - Library Information Technology Systems		16.88 26.27
Administrator		20.27
13058 - Library Technician		16.64
13061 - Media Specialist I		18.96
13062 - Media Specialist II		21.20
13063 - Media Specialist III		23.63
13071 - Photographer I		18.96
13072 - Photographer II		21.20
13073 - Photographer III		26.27
13074 - Photographer IV 13075 - Photographer V		32.13
13090 - Technical Order Library Clerk		38.88
13110 - Video Teleconference Technician		21.20
14000 - Information Technology Occupations		18.96
14041 - Computer Operator I		15.71
14042 - Computer Operator II		17.22
14043 - Computer Operator III		19.19
14044 - Computer Operator IV		21.33
14045 - Computer Operator V		23.62
14071 - Computer Programmer I	(see 1)	15.73
14072 - Computer Programmer II	(see 1)	19.50
14073 - Computer Programmer III	(see 1)	23.84
14074 - Computer Programmer IV 14101 - Computer Systems Analyst I	(see 1)	
14102 - Computer Systems Analyst II	(see 1)	24.23
14103 - Computer Systems Analyst III	(see 1)	
14150 - Peripheral Equipment Operator	(see 1)	15 74
14160 - Personal Computer Support Technician		15.71 21.33
,		21.33

14170	- System Support Specialist	21.24
15000 -	Instructional Occupations	
15020	- Aircrew Training Devices Instructor (Non-Rated)	24.23
15020	<ul><li>Aircrew Training Devices Instructor (Rated)</li><li>Air Crew Training Devices Instructor (Pilot)</li></ul>	29.32
15050	- Computer Based Training Specialist / Instructor	34.91
15060	- Educational Technologist	24.23
15070	- Flight Instructor (Pilot)	27.61
15080	- Graphic Artist	34.91 20.47
	- Maintenance Test Pilot Fixed Jet/Prop	34.91
15086	- Maintenance Test Pilot Rotary Wing	34.91
15088	- Non-Maintenance Test/Co-Pilot	34.91
15090	- Technical Instructor	17.67
15095	- Technical Instructor/Course Developer	23.78
	- Test Proctor	15.70
	- Tutor	15.70
16000 -	Laundry Dry-Cleaning Pressing And Related Occupations	
	- Assembler	10.12
	- Counter Attendant	10.12
	- Dry Cleaner	11.56
	- Finisher Flatwork Machine - Presser Hand	10.12
	- Presser Machine Drycleaning	10.12
16130	- Presser Machine Shirts	10.12
	- Presser Machine Wearing Apparel Laundry	10.12
16190	- Sewing Machine Operator	10.12
16220	- Tailor	12.04
	- Washer Machine	12.52 10.60
	Machine Tool Operation And Repair Occupations	10.00
19010	- Machine-Tool Operator (Tool Room)	19.46
19040	- Tool And Die Maker	24.46
21000 -	Materials Handling And Packing Occupations	21110
21020	- Forklift Operator	13.96
	- Material Coordinator	21.78
	- Material Expediter	21.78
21050	- Material Handling Laborer	11.37
	- Order Filler	9.76
21080	- Production Line Worker (Food Processing)	13.96
	- Shipping Packer	17.12
21130	- Shipping/Receiving Clerk	17.12
21140	- Store Worker I - Stock Clerk	15.22
	- Tools And Parts Attendant	21.40
	- Warehouse Specialist	13.96
	Mechanics And Maintenance And Repair Occupations	13.96
23010	- Aerospace Structural Welder	25.04
23019	- Aircraft Logs and Records Technician	19.47
23021	- Aircraft Mechanic I	23.84
23022	- Aircraft Mechanic II	25.04
	- Aircraft Mechanic III	26.30
	- Aircraft Mechanic Helper	16.58
	- Aircraft Painter	22.39
	- Aircraft Servicer	19.47
23070	- Aircraft Survival Flight Equipment Technician	22.39
	- Aircraft Worker	21.03
	- Aircrew Life Support Equipment (ALSE) Mechanic	21.03
I 22002	Afmenau 146a Cummunt For June 1 (4165) u	
23092 II	- Aircrew Life Support Equipment (ALSE) Mechanic	23.84
	- Appliance Mechanic	
23110	- Bicycle Repairer	19.46
	- Cable Splicer	15.61
	- Carpenter Maintenance	19.59
	- Carpet Layer	16.07 18.20
	- Electrician Maintenance	18.05
_		10.03

23181 - Electronics Technician Maintenance I	18 32
23182 - Electronics Technician Maintenance II	18.20
23183 - Electronics Technician Maintenance III	19.46 20.72
23260 - Fabric Worker	16.94
23290 - Fire Alarm System Mechanic	16.77
23310 - Fire Extinguisher Repairer	15.61
23311 - Fuel Distribution System Mechanic	20.72
23312 - Fuel Distribution System Operator	
23370 - General Maintenance Worker	15.61
23380 - Ground Support Equipment Mechanic	12.01
23381 - Ground Support Equipment Servicer	23.84
23382 - Ground Support Equipment Worker	19.47
23391 - Gunsmith I	21.03
23392 - Gunsmith II	15.61
23393 - Gunsmith III	18.20
23410 - Heating Ventilation And Air-Conditioning	20.72
Mechanic	17.50
23411 - Heating Ventilation And Air Contidioning	10.64
Mechanic (Research Facility)	18.61
23430 - Heavy Equipment Mechanic	44.45
23440 - Heavy Equipment Operator	19.27
23460 - Instrument Mechanic	17.76
23465 - Laboratory/Shelter Mechanic	20.72
23470 - Laborer	19.46
23510 - Locksmith	11.37
23530 - Machinery Maintenance Mechanic	19.46
23550 - Machinist Maintenance	23.13
23580 - Maintenance Trades Helper	20.72
23591 - Metrology Technician I	10.67
23592 - Metrology Technician II	20.72
23593 - Metrology Technician II	22.03
23640 - Millwright	23.33
23710 - Office Appliance Repairer	20.72
23710 - Office Appliance Repairer 23760 - Painter Maintenance	19.46
	14.08
23790 - Pipefitter Maintenance 23810 - Plumber Maintenance	18.39
	17.27
23820 - Pneudraulic Systems Mechanic	20.72
23850 - Rigger 23870 - Scale Mechanic	20.72
	18.20
23890 - Sheet-Metal Worker Maintenance	17.35
23910 - Small Engine Mechanic	18.20
23931 - Telecommunications Mechanic I	19.76
23932 - Telecommunications Mechanic II	21.01
23950 - Telephone Lineman	18.24
23960 - Welder Combination Maintenance	18.31
23965 - Well Driller	21.13
23970 - Woodcraft Worker	20.71
23980 - Woodworker	15.61
24000 - Personal Needs Occupations	~~~~
24550 - Case Manager	15.01
24570 - Child Care Attendant	10.09
24580 - Child Care Center Clerk	13.25
24610 - Chore Aide	12.78
24620 - Family Readiness And Support Services	15.01
Coordinator	
24630 - Homemaker	16.12
25000 - Plant And System Operations Occupations	70.72
25010 - Boiler Tender	20.72
25040 - Sewage Plant Operator	21.59
25070 - Stationary Engineer	20.72
25190 - Ventilation Equipment Tender	14.29
25210 - Water Treatment Plant Operator	21.59
27000 - Protective Service Occupations	21.33
27004 - Alarm Monitor	10.90
27007 - Baggage Inspector	9.48
	7.40

27008 - Corrections Officer	12.05
27010 - Court Security Officer	12.05
27030 - Detection Dog Handler 27040 - Detention Officer	10.90
27070 - Firefighter	12.05
27101 - Guard I	12.05
27102 - Guard II	9.48 10.90
27131 - Police Officer I	12.05
27132 - Police Officer II	13.40
28000 - Recreation Occupations	
28041 - Carnival Equipment Operator	13.24
28042 - Carnival Equipment Repairer 28043 - Carnival Worker	14.46
28210 - Gate Attendant/Gate Tender	9.78
28310 - Lifeguard	13.18
28350 - Park Attendant (Aide)	11.01
28510 - Recreation Aide/Health Facility Attendant	14.74 11.84
28515 - Recreation Specialist	18.26
28630 - Sports Official	11.74
28690 - Swimming Pool Operator	17.71
29000 - Stevedoring/Longshoremen Occupational Services	
29010 - Blocker And Bracer	25.98
29020 - Hatch Tender	25.98
29030 - Line Handler 29041 - Stevedore I	25.98
29042 - Stevedore II	24.18
30000 - Technical Occupations	27.79
30010 - Air Traffic Control Specialist Center (HFO) (see 2)	40.00
30011 - Air Traffic Control Specialist Station (HFO) (see 2)	40.29 27.78
30012 - Air Traffic Control Specialist Terminal (HFO) (see 2)	30.59
30021 - Archeological Technician I	17.49
30022 - Archeological Technician II	19.56
30023 - Archeological Technician III	24.21
30030 - Cartographic Technician	23.18
30040 - Civil Engineering Technician	23.08
30051 - Cryogenic Technician I	25.57
30052 - Cryogenic Technician II 30061 - Drafter/CAD Operator I	28.24
30062 - Drafter/CAD Operator I	17.49
30063 - Drafter/CAD Operator III	19.56
30064 - Drafter/CAD Operator IV	20.77
30081 - Engineering Technician I	25.57 14.84
30082 - Engineering Technician II	16.66
30083 - Engineering Technician III	18.64
30084 - Engineering Technician IV	23.08
30085 - Engineering Technician V	28.24
30086 - Engineering Technician VI	34.16
30090 - Environmental Technician	23.08
30095 - Evidence Control Specialist	23.08
30210 - Laboratory Technician 30221 - Latent Fingerprint Technician I	20.77
30222 - Latent Fingerprint Technician II	25.57
30240 - Mathematical Technician	28.24
30361 - Paralegal/Legal Assistant I	23.34 19.54
30362 - Paralegal/Legal Assistant II	24.21
30363 - Paralegal/Legal Assistant III	29.61
30364 - Paralegal/Legal Assistant IV	35.83
30375 - Petroleum Supply Specialist	28.24
30390 - Photo-Optics Technician	21.93
30395 - Radiation Control Technician	28.24
30461 - Technical Writer I	23.08
30462 - Technical Writer II	28.24
30463 - Technical Writer III 30491 - Unexploded Ordnance (UXO) Technician I	34.16
30492 - Unexploded Ordnance (UXO) Technician I	25.60
20-22 onexproder of anglice (OVO) reclinificial II	30.98

20402 - Unovaleded Ordennes (UVO) Technique TE	
30493 - Unexploded Ordnance (UXO) Technician III 30494 - Unexploded (UXO) Safety Escort	37.13
30494 - Onexhidded (UVO) Sarety Escort	25.60
30495 - Unexploded (UXO) Sweep Personnel 30501 - Weather Forecaster I	25.60
30502 - Weather Forecaster II	25.57
20020 11-41-01 01 01 11 11 11 11 11	31.09
30620 - Weather Observer Combined Upper Air Or (see 2) Surface Programs	20.77
90,504 11 11	
30621 - Weather Observer Senior (see 2) 31000 - Transportation/Mobile Equipment Operation Occupations	23.08
31010 - Airplane Pilot	
31020 - Bus Aide	30.98
31030 - Bus Driver	8.15
31043 - Driver Courier	10.66
31260 - Parking and Lot Attendant	9.69
31290 - Shuttle Bus Driver	9.91
31310 - Taxi Driver	11.65
31361 - Truckdriver Light	11.41
31362 - Truckdriver Medium	10.59
31363 - Truckdriver Heavy	11.61
31364 - Truckdriver Tractor-Trailer	14.64
99000 - Miscellaneous Occupations	14.64
99020 - Cabin Safety Specialist 99030 - Cashier	15.10
99050 - Desk Clerk	9.63
99095 - Embalmer	9.70
	25.60
99130 - Flight Follower	25.60
99251 - Laboratory Animal Caretaker I	23.38
99252 - Laboratory Animal Caretaker II	25.54
99260 - Marketing Analyst	21.54
99310 - Mortician	25.60
99410 - Pest Controller	14.61
99510 - Photofinishing Worker	13.45
99710 - Recycling Laborer	17.32
99711 - Recycling Specialist	23.38
99730 - Refuse Collector	16.40
99810 - Sales Clerk	9.87
99820 - School Crossing Guard	17.27
99830 - Survey Party Chief	23.01
99831 - Surveying Aide	13.08
99832 - Surveying Technician	17.00
99840 - Vending Machine Attendant	23.38
99841 - Vending Machine Repairer	29.78
99842 - Vending Machine Repairer Helper	23.38

Note: Executive Order (EO) 13706 Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2017. If this contract is covered by the EO the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness injury or other health-related needs including preventive care; to assist a family member (or person who is like family to the employee) who is ill injured or has other health-related needs including preventive care; or for reasons resulting from or to assist a family member (or person who is like family to the employee) who is the victim of domestic violence sexual assault or stalking. Additional information on contractor requirements and worker protections

under the EO is available at www.dol.gov/whd/govcontracts.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.60 per hour up to 40 hours per week or \$184.00 per week or \$797.33 per month

HEALTH & WELFARE EO 13706: \$4.23 per hour up to 40 hours per week or \$169.20 per week or \$733.20 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706 Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; and 4 weeks after 3 years. Length of service includes the whole span of continuous service with the present contractor or successor wherever employed and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day Martin Luther King Jr.'s Birthday Washington's Birthday Memorial Day Independence Day Labor Day Columbus Day Veterans' Day Thanksgiving Day and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b) this wage determination does not apply to any employee who individually qualifies as a bona fide executive administrative or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals (29 C.F.R. 541. 400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage

determination.

Additionally because job titles vary widely and change quickly in the computer industry job titles are not determinative of the application of the computer professional exemption. Therefore the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures including consulting with users to determine hardware software or system functional specifications;
- (2) The design development documentation analysis creation testing or modification of computer systems or programs including prototypes based on and related to user or system design specifications;
- (3) The design documentation testing creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties the performance of which requires the same level of skills. (29 C.F.R. 541.400).
- 2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

#### \*\* HAZARDOUS PAY DIFFERENTIAL \*\*

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance explosives and incendiary materials. This includes work such as screening blending dying mixing and pressing of sensitive ordnance explosives and pyrotechnic compositions such as lead azide black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization modification renovation demolition and maintenance operations on sensitive ordnance explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with or in close proximity to ordnance (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands face or arms of the employee engaged in the operation irritation of the skin minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving unloading storage and hauling of ordnance explosive and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance explosives and incendiary material differential pay.

#### \*\* UNIFORM ALLOWANCE \*\*

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract by the employer by the state or local law etc.) the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition where uniform cleaning and maintenance is made the responsibility of the employee all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount or the furnishing of contrary affirmative proof as to the actual cost) reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However in those instances where the uniforms furnished are made of ""wash and wear"" materials may be routinely washed and dried with other personal garments and do not require any special treatment such as dry cleaning daily washing or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract by the contractor by law or by the nature of the work there is no requirement that employees be reimbursed for uniform maintenance costs.

\*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\*

The duties of employees under job titles listed are those described in the ""Service Contract Act Directory of Occupations"" Fifth Edition (Revision 1) dated September 2015 unless otherwise indicated.

\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE Standard Form 1444 (SF-1444) \*\*

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e. the work to be performed is not performed by any classification listed in the wage determination) be classified by the contractor so as to provide a reasonable relationship (i.e. appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification wage rate and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested

parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award the contractor prepares a written report listing in order the proposed classification title(s) a Federal grade equivalency (FGE) for each proposed classification(s) job description(s) and rationale for proposed wage rate(s) including information regarding the agreement or disagreement of the authorized representative of the employees involved or where there is no authorized representative the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action together with the agency's recommendations and pertinent information including the position of the contractor and the employees to the U.S. Department of Labor Wage and Hour Division for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt the Wage and Hour Division approves modifies or disapproves the action via transmittal to the agency contracting officer or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See  $29 \ \text{CFR } 4.6(b)(2)(iii)$ ).

Information required by the Regulations must be submitted on SF-1444 or bond paper.

When preparing a conformance request the ""Service Contract Act Directory of Occupations"" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember it is not the job title but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split combine or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."



# EXHIBIT A University of Guam

# BID SPECIFICATIONS OR EQUIVALENT

BID NO. <u>B21-17</u>

JR0529 UOG HVAC EQUIPMENT PURCHASE

4/27/2021

Prepared by:



Prepared for:

**UNIVERSITY OF GUAM** 



# SECTION 23 81 00 DECENTRALIZED UNITARY HVAC EQUIPMENT

#### PART 1

#### **GENERAL**

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

# AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. (AMCA)

AMCA 500-D (2018) Laboratory Methods of Testing Dampers for Rating AMCA 500-L (2015) Laboratory Methods of Testing Louvers for Rating

# AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

AHRI 540 (2020) Performance Rating Of Positive Displacement Refrigerant Compressors

And Compressor Units

AHRI 700 (2019) Specifications for Fluorocarbon Refrigerants

ANSI/AHRI 210/240 (2008; Add 1 2011; Add 2 2012) Performance Rating of Unitary Air-Conditioning

& Air-Source Heat Pump Equipment

ANSI/AHRI 270 (2020) Sound Rating of Outdoor Unitary Equipment

ANSI/AHRI 460 (2005) Performance Rating of Remote Mechanical-Draft Air-Cooled Refrigerant

Condensers

# AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34 (2013) ANSI/ASHRAE Standard 15

Safety Standard for refrigeration systems and ANSI/ASHRAE Standard

34-Designtion and Safety Classification of Refrigerants

ASHRAE 15 & 34 (2013) ASHRAE Standard 34-2016 Safety

Standard for Refrigeration Systems/ASHRAE Standard 34-2016

Designation and Safety Classification of Refrigerants-ASHRAE Standard

34-2016

ASHRAE 52.2 (2012) Method of Testing General Ventilation Air-Cleaning Devices for

Removal Efficiency by Particle Size

ASHRAE 55 (2020) Thermal Environmental Conditions for Human Occupancy

ASHRAE 62.1 (2019) Ventilation for Acceptable Indoor Air Quality

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(2020) Methods of Testing Remote Mechanical-Draft Evaporative Refrigerant Condensers

ASHRAE 90.1 - IP (2019) Energy Standard for Buildings Except Low-Rise Residential

Buildings

ASHRAE 90.1 - SI (2019) Energy Standard for Buildings Except Low-Rise Residential

Buildings



## **ASTM INTERNATIONAL (ASTM)**

ASTM A307 (2021; E 2017) Standard Specification for Carbon Steel Bolts,

Studs, and Threaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM C1071 (2019) Standard Specification for Fibrous Glass Duct Lining Insulation

(Thermal and Sound Absorbing Material)

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2021) Standard Test Method for Surface Burning Characteristics of

**Building Materials** 

ASTM F104 (2011; R 2020) Standard Classification System for onmetallic Gasket

Materials

# NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA ICS 6 (1993; R 2016) Industrial Control and Systems:Enclosures

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and Generators

## NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA20-1; TIA 20-2; TIA 20-3;

TIA 20-4) National Electrical Code

## **UNDERWRITERS LABORATORIES (UL)**

UL 586 (2009; Reprint Dec 2017) UL Standard for Safety High-Efficiency

Particulate, Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment

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#### 1.2 SUBMITTALS

SD-03 Product Data Spare Parts

Posted Instructions

Coil Corrosion Protection System Performance Tests Training

Inventory

Environmental Data

**Supplied Products** 

SD-06 Test Reports

Refrigerant Tests, Charging, and Start-Up

System Performance Tests

SD-07 Certificates Service

**Organizations** 

SD-10 Operation and Maintenance Data

Operation and Maintenance Manuals

## 1.3 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventory of all the stored items. Replace any materials found to be damaged, at no additional cost to the Government. During installation, cap piping and similar openings capped to keep out dirt and other foreign

### 1.4 ENVIRONMENTAL REQUIREMENTS

For proper Indoor Environmental Quality, maintain pressure within the building as indicated. Ventilation must meet or exceed ASHRAE 62.1 and all published addenda. Meet or exceed filter media efficiency as tested in accordance with ASHRAE 52.2. Thermal comfort must meet or exceed ASHRAE 55.

#### 1.5 WARRANTY

matter.

Provide equipment with the 1 year manufacturer's warranty

#### PART 2 PRODUCTS



Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, etc. in adequate detail to demonstrate compliance with contract requirements. Data includes manufacturer's recommended installation instructions and procedures. If vibration isolation is specified for a unit, include vibration isolator literature



containing catalog cuts and certification that the isolation characteristics of the isolators provided meet the manufacturer's recommendations. Submit data for each specified component. Minimum efficiency requirementsmust be in accordance with ASHRAE 90.1.

#### 2.1.1 Standard Products

Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard productsmust have been in satisfactory commercial or industrial use for 2 years prior to bid opening. The 2 year use includes applications of equipment and materials under similar circumstances and of similar size. The 2 years' experience must be satisfactorily completed by a product which has been sold or is offered for sale on the commercial market through advertisements, manufacturer's catalogs, or brochures. Products having less than a 2 year field service record will be acceptable if a certified record of satisfactory field operation, for not less than 6000 hours exclusive of the manufacturer's factory tests, can be shown. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.

## 2.1.2 Product Sustainability Criteria

### 2.1.2.1 Energy Efficient Equipment

Provide equipment meeting the minimum efficiency requirement as required by ASHRAI 90.1.

### 2.1.2.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated, all motors of 1 horsepower and above with open, drip proof, totally enclosed, or explosion proof fan cooled enclosures, must be the premium efficiency type in accordance with NEMA MG 1. Field wiring must be in accordance with manufacturer's instructions. Each motor must conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at the specified capacity without exceeding the nameplate rating of the motor. Motors must be continuous duty with the enclosure specified. Motor starters must be provided complete with thermal overload protection and other appurtenances necessary for the motor control indicated. Motors must be furnished with a magnetic across-the- line or reduced voltage type starter as required by the manufacturer. Motor duty requirements must allow for maximum frequency start-stop operation and minimum encountered interval between start and stop. Motors must be sized for the applicable loads. Motor torque must be capable of accelerating the connected load within 20 seconds with 80 percent of the rated voltage maintained at motor terminals during one starting period. Motor bearings must be fitted with grease supply fittings and grease relief to outside of enclosure. Manual or automatic control and protective or signal devices required for the operation specified and any control wiring required for controls and devices specified, but not shown, must be provided.

#### 2.1.2.3 Ozone Depleting Substances

Unitary air conditioning equipment must not use CFC-based refrigerants. Refrigerant shall be R-410A or may be an approved alternative refrigerant in accordance with EPA's Significant New Alternative Policy (SNAP) listing.

#### 2.1.3 Nameplates



Major equipment including compressors, condensers, receivers, heat exchanges, fans, and motors must have the manufacturer's name, address, type or style, model or serial number, and catalog number on a plate secured to the item of equipment. Plates must be durable and legible throughout equipment life and made of stainless steel. Fix plates in prominent locations with nonferrous screws or bolts.





## 2.1.4 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices. Safety devices must be installed so that proper operation of equipment is not impaired. Welding and cutting safety requirements must be in accordance with AWS Z49.1.

#### 2.2 EQUIPMENT

# 2.2.1 Large-Capacity Split-System Air Conditioners (Greater Than 65,000 Btu/h)

Provide an air-cooled, split system which employs a remote condensing unit, a separate indoor unit, and interconnecting refrigerant piping. Provide the air conditioning type unit conforming to applicable Underwriters Laboratories (UL) standards including UL 1995. Unit must be rated in accordance with ANSI/AHRI 210/240. Provide unit with necessary fans, air filters, and cabinet construction as specified in paragraph UNITARY EQUIPMENT ACCESSORIES. Provide double-width, double inlet, forward curved centrifugal scroll type evaporator or supply fans. Provide the manufacturer's standard for the unit specified and may be centrifugal scroll type condenser or outdoorfans. Enclose fan condenser motors in totally enclosed enclosures and permanently lubricate ball bearings. Air Conditioners must have a minimum energy efficiency ratio (EER) of 12.

## 2.2.1.1 Air-To-Refrigerant Coil

Provide coils with copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Provide casing of galvanized steel. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil testing and prior to evaluation and charging. Provide each unit with a factory operating charge of refrigerant and oil. Field charge unit shipped with a holding charge with refrigerant and oil. Provide separate expansion devices for each compressor circuit. Condenser coil must have special coatingfor corrosion resistance. Condenser coil must be copper finned. Coat condenser and evaporator coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surface areas without material bridging between fins. Apply coating at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation and be capable of withstanding a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.

#### 2.2.1.2 Refrigeration Circuit

Refrigerant-containing components must comply with ASHRAE 15 & 34 and be factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves and connections, and pumpdown valves foreach circuit.

#### 2.2.1.3 Unit Controls

Provide unit internally prewired with a 208 volt control circuit powered by an internal transformer.



Provide terminal blocks for power wiring and external control wiring. Unit must have cutoffs high and low pressure, and/ow oil pressure for compressors with positive displacement oil pumps, supply fan failure, and safety interlocks on all service panels. Stage multiple compressors by means of a time delay. Internally protect unit by a circuit breaker in accordance with UL 1995.



## 2.2.1.4 Condensing Unit

Fit each remote condenser coil with a manual isolation valve and an access valve on the coil side. Saturated refrigerant condensing temperature must not exceed 120 degrees F at 95 degrees F ambient. Fan and condensermotors must have totally enclosed enclosures.

#### 2.2.1.4.1 Air-Cooled Condenser

Provide unit rated in accordance with ANSI/AHRI 460 and conform to the requirements of UL 1995. Provide factoryfabricated, tested, packaged, and self-contained unit. Unit must be complete with casing, propeller or centrifugal type fans, heat rejection coils, connecting piping and wiring, and all necessary appurtenances.

- Provide interconnecting refrigeration piping, electrical power, and control wiring between thecondensing unit and the indoor unit as required and as indicated.
   Provide electrical and refrigeration piping terminal connections between condensing unit and evaporator units.
- b. Low ambient control for multi-circuited units serving more than one evaporator coil must provide independent condenser pressure controls for each refrigerant circuit. Set controls to produce a minimum of 95 degrees F saturated refrigerant condensing temperature. Provide unitwith a liquid subcooling circuit that ensures proper liquid refrigerant flow to the expansion device over the specified application range of the condenser. Unit must be provided with manufacturer's standard liquid subcooling. Liquid seal the subcooling circuit.
- c. Coils must have copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Protect coil in accordance with paragraph COIL CORROSION PROTECTION. Casing must be galvanized steel or aluminum. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil after testing and prior to evaluation and charging. Provide each unit with a factory operating charge ofrefrigerant and oil or a holding charge. Field charge unit shipped with a holding charge. Provide separate expansion devices for each compressor circuit.
- d. Provide a complete control system with required accessories for regulating condenser pressure by fan cycling, solid-state variable fan speed, modulating condenser coil or fan dampers, floodingthe condenser, or a combination of the above. Construct unit mounted control panels or enclosures in accordance with applicable requirements of NFPA 70 and house in NEMA ICS 6, Class 1 or 3A enclosures. Controls must include overload protective devices, interface with local and remote components, and intercomponent wiring to terminal block points.

#### 2.2.1.4.2 Compressors



Provide compressor rated in accordance with AHRI 540. Provide direct drive, semi-hermetic or hermetic reciprocating, or scroll type compressor capable of operating at partial load conditions. Compressor must be capable of continuous operation down to the lowest step of unloading as specified. Provide units 120,000 Btuh and larger with capacity reduction devices to produce automatic capacity reduction of at least 50 percent. If standard with the manufacturer, two or more compressors may be used in lieu of a single compressor with unloading capabilities, in which case the compressors operate in sequence, and each compressor must have an independent refrigeration circuit through the condenser and evaporator. Each compressor must start in the unloaded position. Provide each compressor with vibration isolators, crankcase heater, lubrication pump, thermal overloads, and high and low pressure safety cutoffs and protection against short cycling.



### 2.2.1.5 Filters

Provide filters of the sectional or panel type, capable of filtering the entire air supply. Mount filter(s) integral within the unit and make accessible by hinged access panel(s). Factory supply 2.0 inch, MERV 13, throwaway filters. Filters must have an average dust spot efficiency of 90-95 percent and an average arrestance of 90 percentwhen tested in accordance with ASHRAE 52.2. Provide UL Class 1 filters.

### 2.4 COMPONENTS

### 2.4.1 Refrigerant and Oil

The air-conditioning system shall use R410A. Refrigerants must have number designations and safety classifications in accordance with ASHRAE 15 & 34. Refrigerants must meet the requirements of AHRI 700 as a minimum. Provide a complete charge of refrigerant for the installed system as recommended by the manufacturer. Lubricating oil must be of a type and grade recommended by the manufacturer for each compressor. Where color leak indicator dye is incorporated, charge must be in accordance with manufacturer's recommendation.

### 2.4.2 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the cfm required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanized steel. Mill- galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive. Propeller fans must be V-belt drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenanceaccessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields. Vbelt drives mustbe fitted with guards where exposed to contact by personnel and fixed pitch sheaves.

### 2.4.3 Air Filters

Provide filters to filter outside air and return air and locate inside combination air filter mixing box. Provide replaceable (throw-away) high efficiency type. Filters must conform to UL 900, Class 1. Polyurethane filters cannot be used on units with multiframe filters. Air filters must be listed in accordance with requirements of UL 900, except high efficiency particulate air filters of 99.97 percent efficiency by the DOP Test Method must be as listed under the label service and must meet the



## 2.4.3.1 High Efficiency Filters

Additional high efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure drop across





clean filter shall not exceed 1 inches of water gage.

### 2.4.5 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally sized openings, each capable offull air flow. Arrangement must be as indicated.

### 2.4.6 Cabinet Construction

Casings for the specified unitary equipment must be constructed of galvanized steel with a weather and corrosion resistant enamel finish or aluminum sheet metal and galvanized or aluminum structural members. If cabinet is enamel-finished galvanized steel, the cabinet finish shall be tested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000 hours. Such documentation shall be included in all submittals. Minimum thickness of single wall exterior surfaces must be 18 gauge galvanized steel or 0.071 inch thick aluminum on units with a capacity above 20 tons and 20 gauge galvanized steel or 0.064 inch thick aluminum on units with a capacity less than 20 tons. Casing must be fitted with lifting provisions, access panels or doors, fan vibration isolators, electrical control panel, corrosion-resistant components, structural support members, insulated condensate drip pan and drain, and internal insulation in the cold section of the casing. Where double-wall insulated construction is proposed, minimum exterior galvanized sheet metal thickness must be 20 gauge.

Provisions to permit replacement of major unit components must be incorporated. Penetrations of cabinet surfaces, including the floor, must be sealed. Unit must be fitted with a drain pan which extends under all areas where water may accumulate. Drain pan must be fabricated from Type 300 stainless steel, galvanized steel with protective coating as required, or an approved plastic material. Pan insulation must be water impervious. Extent and effectiveness of the insulation of unit air containment surfaces must prevent, within limits of the specified insulation, heat transfer between the unit exterior and ambient air, heat transfer between the two conditioned airstreams, and condensation on surfaces. Insulation must conform to ASTM C1071.

### 2.4.6.1 Indoor Cabinet

Indoor cabinets must be suitable for the specified indoor service and enclose all unit components.

### 2.4.6.2 Outdoor Cabinet

Outdoor cabinets must be suitable for outdoor service with a weathertight, insulated and corrosion-protected structure. Cabinets constructed exclusively for indoor service which have been modified for outdoor service arenot acceptable.

### 2.6 FINISHES

### 2.6.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surfaceareas without material bridging between fins. Submit product data on the type coating selected,



the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable ofwithstanding a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percentsodium chloride solution.



### 2.6.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must haveweather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coatingmust show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

### 2.6.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Provide a minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

# 2.6.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the firstwo finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coilsurfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

### 2.6.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
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c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

# 2.6.3 Factory Applied Insulation





Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higherthan 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actual construction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

### 2.7 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unit is in compliance with ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - IP have been met.



# DIVISION23-HEATING, VENTILATING, AND AIRCONDITIONING (HVAC)

# (HVAC) SECTION 23 81 29 VARIABLE REFRIGERANTFLOWHVACSYSTEMS

PART 1 GENERAL

### 1.1 SUMMARY

Provide a complete Air Source, Cooling Only type Variable Refrigerant Flow (VRF) System consisting of one or moreoutdoor compressor units and multiple indoor fan coil units as specified in this Section and in accordance with the following:

- a. The complete system must be a tested combination in accordance with AHRI 1230.
- b. Provide cooling only control for each zone
- c. For systems which simultaneously heat and cool, the outdoor units must be interconnected to the indoor units through branch selector boxes in accordance with the manufacturer's engineering data detailing each indoor unit. The indoor units and outdoor must be connected to the branch selector boxes utilizing the manufacturer's specified piping joints and headers.

### 1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

**AHRI 1230** 

(2010; Addendum 1 2011; Addendum 2 2014) Performance

Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-

Conditioning and HeatPump Equipment

ANSI/AHRI 270

(2008) Sound Rating of Outdoor Unitary Equipment

ANSI/AHRI 760

(2007) Performance Rating of Solenoid Valves for Use With

**Volatile Refrigerants** 

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34

(2013) ANSI/ASHRAE Standard 15-Safety Standard for Refrigeration

Systems and ANSI/ASHRAE Standard 34-Designation and

Safety Classification of Refrigerants

ASHRAE 90.1 - IP

(2013) Energy Standard for Buildings Except Low-Rise

Residential Buildings

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ASTM INTERNATIONAL (ASTM)

ASTM A307

(2014; E 2017) Standard Specification for Carbon Steel Bolts, Studs, and



Threaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2020) Standard Test Method for Surface Burning

Characteristics of Building Materials

ASTM F104 (2011; R 2020) Standard Classification System for Nonmetallic

**GasketMaterials** 

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA 250 (2018) Enclosures for Electrical Equipment (1000 Volts Maximum)

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and

Generators

U.S. DEPARTMENT OF ENERGY (DOE)

Energy Star (1992; R 2006) Energy Star Energy Efficiency Labeling System (FEMP)

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR 82 Protection of Stratospheric

Ozone UNDERWRITERS

LABORATORIES (UL)

UL 207 (2009; Reprint Jan 2020)

Refrigerant-Containing Components and Accessories, Nonelectrical

UL 429 (2013; Reprint Jan 2020) Electrically Operated Valves
UL 586 (2009; Reprint Dec 2017) U. Standard for Sefety High

(2009; Reprint Dec 2017) UL Standard for Safety High-EfficiencyParticulate, Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment

### 1.3 SUBMITTALS

**SD-01 Preconstruction Submittals** 

**Verification Of Existing** 

**Conditions** 



VRF System Contractor Design

Drawings SD-03 Product Data

Spare Parts Data



**Coil Corrosion Protection** 

Manufacturer's Standard Catalog

DataSample Warranty

Refrigerant SDS

Sheets SD-05 Design Data

Manufacturer's Engineering

DataSD-06 Test Reports

System Performance

**Tests SD-07 Certificates** 

Service

**Organizations** 

Warranty

**Electronic Refrigerant Leak Detector Calibration** 

Ozone Depleting Substances Technician

Certification

SD-08 Manufacturer's Instructions Manufacturer's

Instructions SD-09 Manufacturer's Field Reports

Refrigerant Charging

### 1.4 QUALITY ASSURANCE

Complete VRF systems must be purchased from a single supplier. The VRF system supplier must be responsible for providing a fully functional VRF system.

Prior to purchase of equipment, shop drawings (e.g. equipment layout, plans and elevations, refrigerant piping system plans, etc.) must be approved by the VRF manufacturers representative. Include approval with name and contact information of VRF manufacturer's representative in the submittal.

### 1.5 QUALITY CONTROL





Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard products must have been in satisfactory commercial or industrial use for 3 years immediately prior to the solicitation of this contract. The 3 year use includes applications of equipment and materials under similar circumstances and of similar size. The 3 years' experience must be satisfactorily completed by a product which has been sold on the commercial market through advertisements, manufacturer's catalogs, or brochures. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.



### 1.5.2 Manufacturer's Engineering Data

Submit VRF manufacturer's engineering data with the shop drawings under separate cover.

Strike outirrelevant items and options not to be

installed.

Provide all input and output reports for all

selection procedures required by the manufacturer and as required by this section. Engineering data must include:

- a. Selection Procedures:
  - 1. Indoor and Outdoor Units
  - 2. Branch Selector Units
  - 3. Piping Material and Fittings
  - 4. Refrigerant Mass for system
  - 5. Refrigerant Classification
- b. System Efficiency Curves/Data including:
  - Efficiency correlated with OAT
  - 2. At least five (5) data points covering full range of operation
  - Minimum and maximum values over the operational range
  - Efficiency at Standard AHRI conditions.

### 1.5.3 Manufacturer's Instructions

Submit VRF manufacturer's instructions with the shop drawings under separate cover.

Strike outirrelevant items and options not to be installed. Provide with the following:

- a. Installation: Include mechanical, electrical, controls and piping complete installation requirements.
- b. Operation: Include startup, normal operation and shutdown procedures.
- c. Maintenance: Include preventative.

### 1.6 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventoryof all the stored items. Replace any materials found to be damaged, at no additional cost to the Government.

During installation, keep piping and similar openings capped to keep out dirt and other foreign matter.

### 1.7 WARRANTY

Provide VRF manufactured equipment with the Manufacturer's Standard Warranty in addition to the Warranty of Construction. Submit Sample Warranty prior to construction. Compare warranty requirements with the requirements of this contract and identify discrepancies in the submittal that would prevent coverage of warrantyby the manufacturer.



All products used to meet this specification must meet the indicated requirements, but not all products specified here will be required by every project.



### 2.1 MATERIALS

Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, in adequate detail to demonstrate compliance with contract requirements. If field installed vibration isolation is specified for a unit, include vibration isolator literature containing catalog cuts and certification that the isolation characteristics of theisolators provided meet the manufacturer's recommendations. Submit data for each specified component.

Minimum efficiency requirements must be in accordance with ASHRAE 90.1 - IP.

### 2.1.1 Performance Requirements

Provide energy efficiency curve and data of EFFICIENCY vs. OAT. Provide at least five data points over the full range of operation capturing the minimums and maximums.

# 2.1.1.1 Variable Refrigerant Flow Multi-Split Air Conditioners

Information on Energy Star requirements can be found at <a href="https://www.energystar.gov/products/heating">https://www.energystar.gov/products/heating</a> cooling/light commercial heating cooling/light commercial hyac key product criteria

### 2.1.1.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated and field wiring must be in accordance with manufacturer's instructions. All motor(s):

- a. 1 horsepower and above must be the premium efficiency type in accordance with NEMA MG 1.
- b. Conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at the specified capacity without exceeding the nameplate rating.
- c. Continuous duty with the enclosure specified.
- d. Starters must be provided complete with thermal overload protection and other appurtenancesnecessary for the motor control indicated.
- E. Furnished with a magnetic across-the-line or reduced voltage type starter as required by themanufacturer.
- f. Duty requirements must allow for maximum frequency start-stop operation and minimum encountered interval between start and stop.
- g. Must be sized for all applicable loads.
- h. Bearings with grease supply fittings must have grease relief to outside of enclosure.



i. Automatic control and protective or signal devices required for the operation specified and anycontrol wiring required for controls and devices specified, but not shown, must be provided.



### 2.1.1.3 Refrigerant

The air-conditioning system shall use R410A.

### 2.1.2 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices.

### 2.2.1 Zone Control

Provide a Space Sensor Module for each fan coil unit unless otherwise indicated in contract drawings and with the following additional requirements:

- a. Displays the current temperature, temperature setpoint, fans status, occupancy status and conditioning mode at the same time. If information is displayed electronically then it must be illuminated.
- b. Temperature setpoint adjustment in one degree increments.
- c. Fans speed control (At least: High-low-Auto).
- d. Occupancy override button which changes the mode of the zone to occupied for one hour perpress of occupancy override button with 8 hours maximum at any instance.

### 2.3 INDOOR FAN COIL

UNITSProvide with the

### following:

- Factory complete, tested and pre-wired with all necessary electronic and refrigerant controls.
- b. Equipped with auto-restart function and test run capability either via a switch or controller.
- c. Refrigerant: Refrigerant circuits factory-charged with dehydrated inert gas.
- d. Coils: Direct expansion type constructed from copper, aluminum, or copper and aluminum.
- e. Fans: Direct-drive, with statically and dynamically balanced impellers; variable speed ECM unlessotherwise indicated; motor thermally protected.





- f. Return Air Filter: Washable long-life net filter with mildew proof resin, or replaceable, unlessotherwise indicated.
- g. Condensate Drainage: Built-in condensate drain pan with drain connection.
- h. Dedicated electronic modulating refrigerant expansion and flow control.



- i. Unit must be in accordance with UL 1995 and AHRI 1230.
- j. For units with Built-In Condensate Pumps, provide condensate safety shutoff and alarm. For units without Built-In Condensate Pump, provide built in or field supplied overflow protection.

### 2.3.1 Concealed-In-Ceiling

UnitsProvide with the following:

- a. Ducted horizontal discharge and return; galvanized steel cabinet in accordance with Section 23 30 00 HVAC AIR DISTRIBUTION.
- b. Field adjustable external static pressure switch for high efficiency filter operation.
- c. Switch box accessible from side or bottom.

### 2.3.2 Recessed Ceiling

UnitsProvide with the

### following:

- a. Four-way airflow cassette with central return air grille, for installation in a fixed ceiling, unless otherwise indicated.
- b. Exposed Housing: White, impact resistant, with washable decoration panel.
- c. Supply Airflow Adjustment:
  - (1) Via motorized louvers which can be horizontally and vertically adjusted from 0 to 90 degrees.
  - (2) Field-modifiable to 3-way and 2-way airflow.

### 2.3.3 Wall Surface-Mounted

Units Provide with the following:

- a. Finished white casing, with removable front grille; sound insulation; wall mounting plate; condensate drain pan.
- b. Airflow Control: Auto-swing louver that closes automatically when unit stops; adjustable discharge angle, set using remote controller; upon restart, discharge angle defaulting to same angle as previous operation.
- c. Fan: Direct-drive cross-flow type.



d. Condensate Drain Connection: Side (end), not concealed in wall.

# 2.4 **OUTDOOR** COMPRESSOR

UNITProvide with the

following:



- a. The outdoor unit must have one or more variable capacity compressors or alternative method resulting in three or more steps of capacity needed to load match the indoor unit fan coils at alltimes.
- b. The unit must be factory complete, tested and pre-wired with all necessary electronic and refrigerant controls.
- c. The sound pressure dB(A) at rated conditions must be a value of 58 decibels at 3 feet from the front of the unit when rated in accordance with ANSI/AHRI 270.
- d. The unit must automatically restart normal operation after a power failure of any duration without reprogramming or manual assistance.
- e. Oil recovery cycle must be automatic occurring a minimum of 2 hours after start of operation and then at least every 8 hours of operation.
- f. Each outdoor unit must have it's own dedicated power feed, each with disconnect and mainpower circuit breaker.
- g. The unit must be in compliance with ANSI/ASHRAE 15 & 34, factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves. Filter-drier must be provided in liquid line.
- h. The outdoor units capacity must meet or exceed the scheduled value in the contract drawings. The ratio of the outdoor unit capacity to the total connected indoor capacity must be accordance with the manufacturer's recommendations for selecting the outdoor unit.
- i. Unit must be in accordance with UL 1995 and AHRI 1230.

### 2.4.1 Air-Cooled

The unit must must have full design cooling capacity at 95 degrees F dry bulb ambient.

### 2.4.2 Casing

Construct the unit of zinc coated, heavy-gage (14-gage minimum) galvanized steel. The cabinet finish shall betested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000hours. Such documentation shall be included in all submittals. Provide cabinet panels with lifting handles andwater- and air-tight seal. Insulate all exposed vertical panels, top covers and base pan.

### 2.4.3 Compressor

Each compressor system must have the following:

a. High pressure safety switch, and internal thermal overload protection.



- b. Factory installed vibration dampeners on all mounting points.
- c. Factory installed crank case heater or other control logic to ensure reliable operation in freezing environments.
- d. Oil separator with an oil balance circuit.



### 2.5 COMPONENTS

### 2.5.1 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the flow rate required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanizedsteel. Mill-galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Direct-drive fan motors must be of the multiple-speed variety. Belt-driven fans must have adjustable sheaves. The sheave size must be selected so that the fan speed at the approximate midpoint of the sheave adjustment will produce the specified air quantity. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive.

Propeller fans must be direct-drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields. V-belt drives must be fitted with guards where exposed to contact by personnel and fixed pitch sheaves. Axial fans may not be used to distribute air through duct systems.

### 2.5.2 Air Filters

High efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure dropacross clean filter shall not exceed 1 inches of water gage.

### 2.5.3 Internal Dampers

Dampers must be parallel blade type with renewable blade seals and be integral to the unitary unit. Damper provisions must be provided for each outside air intake, exhaust, economizer, and mixing boxes. Dampers must have manual modulation and operate as specified.

### 2.5.4 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally-sized openings, each capable offull air flow. Arrangement must be as indicated.

### 2.5.5 Refrigerant Solenoid Valves

Solenoid valves must comply with ANSI/AHRI 760 and UL 429, be suitable for continuous duty rated voltage at maximum and minimum encountered pressure and temperature service conditions. Solenoid



valves must be direct-acting or pilot-operating type, packless, seal capped. Manual lifting provisions must be furnished. Solenoid coils must comply with NEMA 250 type 4.

Valves must have safe working pressure of 125 percent of maximum working pressure and a maximum operating pressure differential of at least half of the valve maximum working pressure at 85 percent rated voltage. Valves must have an operating pressure differential suitable for the fluid phase and refrigerant used.



### 2.5.6 Branch Selector Unit

Branch Selector port control must be provided for each connected indoor unit to enable individual heating and cooling selection year round unless otherwise indicated in the contract drawings. The cabinet must be galvanized steel. The branch selector units must be factory assembled, wired, piped and run tested.

# 2.6 EQUIPMENT ACCESSORIES AND MISCELLANEOUS EQUIPMENT

### 2.6.1 Refrigerant Leak Detector

Provide continuously-operating, halogen-specific type refrigerant leak detector. Detector must be appropriate for the refrigerant in use.

Detector must be specifically designed for area monitoring and must include a single sampling point installed where indicated. Detector design and construction must be compatible with the temperature, humidity, barometric pressure and voltage fluctuations of the operating area. Detector must have an adjustable sensitivity such that it can detect refrigerant at or above 3 parts per million (ppm). Detector must be supplied factory- calibrated for the appropriate refrigerant(s). Detector must be provided with an alarm relay output which energizes when the detector detects a refrigerant level at or above the TLV-TWA (or toxicity measurement consistent therewith) for the refrigerant in use. The detector's relay must be capable of initiating corresponding alarms and ventilation system as indicated on the drawings. Detector must be provided with a failure relay output that energizes when the monitor detects a fault in its operation.

### 2.6.2 Refrigerant Signs

Refrigerant signs must be a medium-weight aluminum type with a baked enamel finish. Signs must be suitable forindoor or outdoor service. Signs must have a white background with red letters not less than 0.5 inches in height.

### 2.6.2.1 Installation Identification

Provide each new refrigeration system with a refrigerant sign which indicates the following as a minimum:

- a. Contractor's name.
- b. Refrigerant number and amount of refrigerant.
- c. The lubricant identity and amount.
- d. Field test pressure applied.

### 2.6.2.2 Controls and Piping Identification

Provide refrigerant systems containing more than 110 lb of refrigerant with refrigerant signs which designate thefollowing as a minimum:

a. Valves or switches for controlling the refrigerant flow and the refrigerant compressor.



b. Pressure limiting device(s).

# 2.6.3 Gaskets



Provide gaskets conforming to ASTM F104 - classification for compressed sheet with nitrile binder and acrylic fibers for maximum 700 degrees F service.

### 2.6.4 Bolts and Nuts

Bolts and nuts must be in accordance with ASTM A307. The bolt head must be marked to identify the manufacturer and the standard with which the bolt complies in accordance with ASTM A307.

### 2.7 FINISHES

### 2.7.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surface areas without material bridging between fins. Submit product data on the type coating selected, the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable of with standing a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.

# 2.7.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must have weather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coating must show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

### 2.7.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Provide a minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

# 2.7.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a



minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the first two finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coil surfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating



materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

### 2.7.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
- c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

### 2.7.3 Factory Applied Insulation

Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higher than 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actual construction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

# 2.8 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unitis in compliance with applicable ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - SI ASHRAE 90.1 - IP have been met.

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# JWS REFRIGERATION & AIR CONDITIONING LTD

**UOG BID NO. B21-17** 

**PURCHASING OF HVAC EQUIPMENT** 

### EXHIBIT B

### **UOG BID NO.B21-17**

### **PURCHASING OF HVAC EQUIPMENT OF THE UNIVERSITY OF GUAM**

### Scope of Work

1. Scope of the Work

This bid is to select and award a contract for the purchasing of multiple Air Conditioning units for the University of Guam.

### 2. Bid Submittats

- a) Bid prices shall be submitted on Bid Price Form. All prices shall include shipping, delivery, and manufacturer's warranty. Any additional cost not stated in this bid but are required to complete the delivery must be included in the bidder's price.
- b) Bidder shall submit an electronic copy to the Share folder that UOG procurement office provides.

Contractor is required to submit prices for Table 1.0.

Bid award to be based on the required items in Table 1.0 and to be based on price, compliance to the specification, services, delivery and any requirements in the BID package, BID NO. B21-17.

Table 1.0 Bid Price Form

No.	ITEN	BID Price				
1	LOCATION L	JNIT	TONS	VOLTAGE	TVX	<del> </del>
	RFK BUILDING SECOND FLOC		50	208 / 230	2 EA 25	\$74,837.72
	RFK BUILDING FIRST FLOOR 20RFK BUILDING FIRST FLOO		40	208 / 230	2 EA	\$59,870.18
	MAIN ENTRANCE 7.5RFK BUILDING FIRST FLOC	1 OR	15	208 / 230	2 EA	\$22,451.32
	AV ROOM 7.5RFK BUILDING FIRST FLOO	1 DR	15	208 / 230	2 EA	\$22,451.32
	OFFICES	1	20	208 / 230	2 EA 10	\$29,935.09
	PIP (GLE) SECOND FLOOR 10SCIENCE BUILDING FIRST	1	20	208 / 230	2 EA	\$29,935.09
	FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	\$59,870.18
	SECOND FLOOR 20SCIENCE BUILDING	1	40	208 / 230	2 EA	\$59,870.18
	THIRD FLOOR 10EGLISH COMMUNICATION	1	20	208 / 230	2 EA	\$29,935.09
	BUILDING CLASSROO 15COMPUTER CENTER OIT	1	30	208 / 230	2 EA	\$44,902.64

	BUILDING FIRST FLOOR LECTURE HALL AUDITOR	-	50 20	277 / 460 277 / 460	2 EA 25 2 EA 10	\$74,837.73 \$29,935.09
	HSS BUILDING HSS BUILDING	2 1	50 30	277 / 460 277 / 460	2 EA. – 25 2 EA. – 15	\$74,837.73 \$44,902.64
Grand						
Delive	ry: 9-12 weeks after	r receipt of	purchase	e order		

Venfied by pdffiller

12/26/21

SIGNATURE OF BIDDER DATI

### **OPTIONS**

For Table 2.0 Options, the bidder's price will not be included as part of the total price evaluation for this bid award. UOG reserves the right to exercise any or part of the options requested. Insert any additional options recommended.

### **Table 2.0 Options**

No.	Item Description	Price
1	Services for Maintenance and upkeep.	\$1,275 for Quarterly PM \$5,100 Annual Total
2	Services for disposal.	\$0.00° Disposal included w. purchase of equipment
3	Replacement/trade in program	Year Factory Warranty for     Replacement Parts & Compressor

### OTHER NOTES:

- 1. These specifications have been written to describe minimum equipment and performance requirements to be supplied by the equipment manufacturer bidding. Reasonable tests may be conducted upon delivery before acceptance.
- 2. The University reserves the right to accept and/or reject any and all bids, to waive any defects, irregularities, or specification discrepancies and to award the bid deemed to be in the best interest of the University.

NOTE: Name and title of author of specifications:

University of Guam

Glenn Leon Guerrero, Director, Facilities Management & Services, Email: glennlg@triton.uog.edu

Emily Gumataotao, Supply Management Administrator, Email: eggumataotao@triton.uog.edu

### ADMINISTRATION & FINANCE Consolidated Procurement Office



### INVITATION FOR BID (IFB) UOG BID NO. B21-17

# The University of Guam is soliciting sealed bids for the PURCHASING OF HVAC EQUIPMENT For The University of Guam

Copies of the Bid Package and Instructions and Information may be obtained from:

OFFICE: UOG Procurement Office

TELEPHONE: (671) 735-2925 FAX NO.: (671) 735-3010

LOCATION: UOG Administration Building (ANNEX BUILDING) Mangilao, Guam

E-MAIL: uog.bids@triton.uog.edu

A non-refundable fee of \$25.00 is required to obtain a hard copy of the bid package. Payment may be made via cash, check or credit card at the UOG Business Office, Cashier Services located at the UOG Administration Building Mon-Fri from 8 am - 4 pm. Pay by phone is available from 8 am - 4 pm. You may schedule an appointment with our cashier services at 735-2923/45/46, please reference Bid number and title when making payment. Send proof of receipt to the Procurement Office.

In accordance with 5 G.C.A. \$5220(a), a digital copy of this solicitation shall be posted on UOG's website at uog.bids@triton.uog.edu. No fees shall be assessed to potential bidders or other parties for accessing or downloading a copy of this solicitation from UOG's website. Potential bidders who access or download a copy of this solicitation from UOG's website must register their contact information with UOG to ensure that they receive any notices regarding any changes or updates to this solicitation. In accordance with 5 G.C.A. \$5220(b), UOG shall not be liable for failure to provide notice to any party who accesses or downloads a copy of this solicitation from UOG's website and who fails to register their contact information with UOG as required herein. Please have subject line reference as indicated the UOG Bid number, Bid Title, and your Company or Requestor's Name to register for UOG's Bid Distribution Registry.

<u>Deadline for Submission</u> of Bid Packages is on Monday, November 22, 2021 on or before 2:00 P.M. via electronic submission to electronic Bid Share folder provided by UOG Procurement Office.

/s/ Thomas W. Krise, Ph.D. President

University of Guam is an equal opportunity employer and provider.

This Advertisement is paid for by University of Guam Funds.

**AUTHORIZED FOR ANNOUNCEMENT** 

Thomas W. Krise, Ph.D. President



# **ADMINISTRATION & FINANCE**Consolidated Procurement Office

### **AMENDMENT 1**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

### PURCHASING OF HVAC EQUIPMENT

This is to notify all prospective offerors of the following amendment:

1.1 PRE-BID Conference and Site visit is scheduled for Wednesday, November 3, 2021 at 10:00am. Meet-up will be at Facilities Maintenance Services, 1st Floor Bay. Please contact 735-2377 for directions.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company: JWS Refrigeration and A/C Ltd

Anthony Scraga (luly server 10/24/2)

T: +1 671.735.2925 F: +1 671.735.3010 W: www.uog.edu E: uog.bids@triton.uog.edu Malling Address: 303 University Drive UOG Station Mangllao, Guam 96913 The University of Guam Is a U.S. Land Grant Institution accredited by the Western Association of Schaols and Colleges Senior College and University Commission and is an equal apportunity provider and employer.



### **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

### **AMENDMENT 2**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: October 29, 2021

### **PURCHASING HVAC EQUIPMENT**

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 REPLACE "Cover Page" with corrected form as set forth in the attached.
- 1.2 ADD: after Cover Page, p.2 "Bidders Registry" with corrected form as set forth in the attached.
- 1.3 REPLACE "Table of Contents" with corrected form as set forth in the attached.
- 1.4 REPLACE "Instructions to Bidders" with corrected forms as set forth in the attached.
- 1.5 ADD: after ATTACHMENT I, "Register of Wage Determinations Under The Service Contract Act"
- 1.6 REPLACE Exhibit B "Bid Price Form" with corrected forms as set forth in the attached.

All other terms and conditions remain the same.

Émily G. Gumataotao

Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

TIME D.C.I.

Name of company:

Print Name/Signature/date

11/2/21

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu
Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913
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Senior College and University Commission and is on equal opportunity provider and employer



### ADMINISTRATION & FINANCE Consolidated Procurement Office

### **AMENDMENT 3**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 19, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

- 1.1 Question & Answer Sheet 1 as set forth in the attached.
- 1.2 REPLACE Exhibit B "Scope of Work & Bid Price Form" with corrected forms as set forth in the attached.
- 1.3 Copy of Pre-bid Conference Sign-In sheet as set forth in the attached.
- 1.4 Deadline for submission should read as follows: Monday, November 29, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company:

minuty Science

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu
Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913
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### **AMENDMENT 4**

Invitation for Bid (IFB) **UOG IFB No. B21-17** 

Date Issued: November 22, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 2 as set forth in the attached.

All other terms and conditions remain the same.

Émily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913 The University of Guam is a U.S. Land Grant Institution accredited by the Western Association of Schools and Colleges Seniar College and University Commission and is an equal opportunity provider and employer.



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### **AMENDMENT 5**

Invitation for Bid (IFB) UOG IFB No. B21-17

Date Issued: November 24, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Deadline for submission should read as follows: Monday, December 06, 2021 at 2:00 p.m. (your bid submission must be submitted electronically to the Bid Share folder provided by UOG Procurement Office on or before 2:00 p.m.) Bid opening will take place at 3:15 p.m. via ZOOM link provided by procurement office to all registered offerors.

All other terms and conditions remain the same.

Émily G. Gumataotao

**Supply Management Administrator** 

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company

Print Name/Signature/date

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu
Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913
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Kefrigeration and A/C Ltd.



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### **AMENDMENT 6**

Invitation for Bid (IFB)
UOG IFB No. B21-17

Date Issued: December 3, 2021

### "PURCHASING HVAC EQUIPMENT"

This is to notify all prospective offerors of the following amendment set forth below:

1.1 Question & Answer Sheet 3 as set forth in the attached.

All other terms and conditions remain the same.

Emily G. Gumataotao Supply Management Administrator

Please acknowledge receipt and email: uog.bids@triton.uog.edu:

Name of company TUS Rescinated as Ale

Print Name/Signature/date

T: +1 671.735.2925 F: +1 671.735-3010 W: www.uog.edu E: uog.bids@triton.uog.edu Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913

The University of Guam is a U.S. Land Grant Institution accredited by the Western Association of Schools and Colleges Senior College and University Commission and is an equal opportunity provider and employer.

### UOG INVITATION FOR BIDS NO. B21-17: PURCHASING OF HVAC EQUIPMENT

### QUESTION & ANSWER SHEET NO. 3 December 3, 2021

In response to the written "Questions" and/or 'Request for Clarifications' UOG received as of 11/05/2021 @ 2:28pm from vendor: Guam Pacific Enterprise, Inc.

### Question 1:

Did UOG remiss by requiring 15% Bid bond under Guam Law for a project that the funds being used is from financial assistance awards? (American Rescue Funds Act)

Argument. 15 % bid bond pursuant to Guam law only applies for local funds. 15% BID BOND substantially burdens the small business owners and the manufacturers that they are representing

Therefore, it is non compliant and inconsistent with the Section1 and 3 of Executive Order 14005 of President Biden's American Made Act Law. The bid bond should be waived.

### Answer:

UOG contimes Bid security shall be required for all competitive sealed bidding for the procurement of supplies or services when the total price is estimated to exceed Twenty-Five Thousand Dollars (\$25,000,00), 5 G.C.A. §5217(a). Further, 8id sacrety shall be in an amount equal to fifteen percent (16%) of the total amount bid. S.G.C.A. §5212(b). There is no exception in the aforementioned Guam Procurement Law for solicinations made by Public Corporations, such as UOG. that are federally funded. When invitation for Bids requires bid security, noncompliance requires that the bid be rejected. E.G.C.A. §5212(e)



# ADMINISTRATION & FINANCE Consolidated Procurement Office

# UOG BIDDERS DISTRIBUTION REGISTRY FORM FOR UOG BID NO. B21-17

INFORMATION ON INTERESTED BIDDER FOR BID REGISTRY ENTRY MUST BE RECEIVED BY UOG'S PROCUREMENT OFFICE PRIOR TO RECEIVING ANY DISTRIBUTED COPY SET OF THIS IFB (WITH OR WITHOUT THE BID FEE)

	NOTICE:			
ALL DISTRIBUTIONS OF THIS B CONSOLIDATED PROCUREMEN	IID PACKET MUST BE RECORDED IN THE BID'S REGISTRY (LOG) AT UOG'S T OFFICE.			
THE BID REGISTRY ALSO PROVIDES THE NECESSARY CONTACT INFORMATION NEEDED TO DISTRIBUTE FUTURE AMENDMENTS, ADDENDUMS, AND CLARIFICATIONS FOR THIS BID PACKET.				
UOG PAYMENT RECEIPT NO	N/A () gral Copy) DATE: 11, 1, 21 TIME: 1:15 pm	¥0		
PAYMENT METHOD: [ ] CAS	H [ ] CHECK NO. na [ ] CREDIT CARD 1/4			
NAME OF COMPANY:	JWS Refrigeration & A/C Ltd.			
PHYSICAL ADDRESS:	290 Tun Jose Salas St. Tamoning GU 9691	3		
MAILING ADDRESS:	290 Tun Jose Salas St. Tamuning Gli 96913	,		
CONTACT PERSON & TITLE:	Roger Jones (Hoject Manager) / Anthony Scragg (Sen)	vice + Sale Pep.		
CONTACT NUMBERS:	TELEPHONE (671) 558-5981 FAX (671) 649-0053 CELLULAR Poye; (671) 767-	1046		
E-MAIL ADDRESS:	anthonysajusquem.com/ ragerjones Ejusquem.	lom		
OTHER CONTACT INFORMATION OR HELPFUL INSTRUCTIONS	HR: Lause Jaroleur : lausei @ jusquam.com.			
FOR UOG WHEN FORWARDING FUTURE UPDATES:	Cen. Manager: Robert Pelez: 100ert p. & jurguant on			

UNIVERSITY OF GUAM - CONSOLIDATED PROCUREMENT OFFICE USO Station, Mangilan, Guam 96923 Tel. (671) 735, 2925 Fax. (671) 735, 3010 A U.S. LAND GRANT DISTRIBUTION ACCREPATED BY THE WESTERN ASSOCIATION OF SCHOOLS & COLLEGES THE UNIVERSITY OF GUAM IS AN EQUAL OPPORTUNITY EMPLOYER AND PROVIDER



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## ADMINISTRATION & FINANCE Consolidated Procurement Office



# UNIVERSITY OF GUAM INVITATION FOR BID UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM

DATE ISSUED:

October 22, 2021

**UOG SECTION:** 

FACILITIES MANAGEMENT & SERVICES (FMS).

**ADMINISTRATION & FINANCE** 

ISSUED BY:

**UOG CONSOLIDATED PROCUREMENT OFFICE** 

TELEPHONE NO.: (671) 735-2925

FAX NO.: (671) 735-3010

E-MAIL: uog.bids@triton.uog.edu

#### **INSTRUCTIONS TO BIDDERS**

1. RECEIPT AND OPENING OF BIDS: Sealed bids for UOG **B21-17** PURCHASING OF HVAC EQUIPMENT FOR THE UNIVERSITY OF GUAM (UOG) must be received by the Procurement Office no later than:

TIME: 2:00 P.M. DATE: Monday, November, 22,2021

Bids submitted after the time and date specified above shall be rejected. Bid opening will be conducted electronically via Zoom Link at 4:00 pm; link will be provided through email to all registered offerors.

Attention is called to the fact that bidders not only offer to assume the obligations and liabilities imposed upon the contractor in the form of a contract, but are expressly made certain of the representations and warrants made herein. No effort is made to emphasize any particular provision of the contract, but biddersmust familiarize themselves with every provision and its effect. This Bid is subject to General Terms and Conditions of the Invitation for Sealed Bids (Attachment A) and the Special General Provisions (Attachment B).

In consideration of the expense of the University of Guam of opening, tabulating, and evaluating this and other bids, and other considerations, the undersigned agrees that this bid shall remain firm and irrevocable within sixty (60) calendar days from the date of opening to supply any or all of items for which prices are quoted.

- 2. BIDDER QUALIFICATIONS (Attachment C): The University of Guam may require bidders to presentsatisfactory evidence that they have sufficient experience and that they are fully prepared, thus it is required that the bidder completely fill out the Bidder's Qualifications Form.
- 3. NON-COLLUSION AFFIDAVIT (Attachment D): Each person submitting a bid for any portion of the work covered by the bidding documents shall execute an affidavit, in the form provided with the Bid to theeffect that he has not colluded with any other person, firm or corporation in regard to any bid submitted. Such affidavit shall be attached to the proposal.

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- 4. MAJOR SHAREHOLDERS AFFIDAVIT (Attachment E): As a condition to submitting of bids or proposals, any partnership, sole proprietorship or corporation doing business with the University of Guam shall submit an affidavit that lists the name and address of any person who has held more than ten percent (10) of outstanding shares in said partnership, sole proprietorship or corporation at any time during the twelve (12) month period immediately preceding submission of a proposal. The affidavit shall contain thenumber of shares or the percentage of all assets of such partnership, sole proprietorship or corporation which have been held by each person during the twelve (12) month period. In addition, the affidavit shall contain the name and address of any person who has received or is entitled to receive a commission, gratuity or other compensation for the procuring or assisting in obtaining business related to the bid or proposal for the Offeror and shall contain the amounts of any shall commission, gratuity or other compensation. The affidavit shall be open and available for inspection and copying.
- 5. AFFIDAVIT RE GRATUITIES, KICKBACKS AND FAVORS (Attachment G): The bidder, offeror or contractor represents that it will not violate the prohibition against gratuities and kickbacks and favors set forth (Gratuities and Kickbacks) in 5 GCA, Chapter 5, Article 11, Ethics in Public Contracting and Section 11.7 (Gratuities and Kickbacks and Favors) of the UOG Procurement Manual.
- 6. AFFIDAVIT RE ETHICAL STANDARDS (Attachment H): The bidder, offeror, or contractor represents that it has not knowingly influenced and promises that it will not knowingly influence a government employee to breach any of the ethical standards set forth in 5 GCA, Chapter 5, Article 11, and in Chapter 11 (Ethics in Public Contracting) of the UOG Procurement Manual.
- 7. COVENANT AGAINST CONTINGENT FEES (Attachment I): The prospective contractor represents aspart of such contractor's bid or proposal that such contractor has/has not (Circle applicable word or words) retained any person or agency on a percentage, commission, or other contingent arrangement, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business.
- 8. DECLARATION RE COMPLIANCE WITH U.S. DEPARTMENT OF LABOR WAGE DETERMINATION (Attachment J): In accordance with 5 GCA §§ 5801 and 5802, as may be applicable, each bidder certifies that any of its employees whose purpose, in whole or in part, is the direct delivery of service contracted by the University shall be paid in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the University, including health and other similar benefits. Theupdated wage rate with the most current revision shall be included in the bid submission.
- 9. RIGHT TO ACCEPT AND REJECT BIDS: The President of the University of Guam reserves the unqualified right, in his sole and absolute discretion, to reject any and all bids, or to accept that bid or combination of bids, if any, which in his sole and absolute judgment will under all circumstances best servethe interests of the University of Guam. In the event that the successful bidder fails to execute the contract upon his part or to furnish a satisfactory performance and payment bond, the University, after declaring these curity deposit of such bidder forfeited, reserves the option to accept the bid of any other bidder within ten (10) days from such default, in which case such acceptance shall have the same effect as to such bidderas though he was the originally successful bidder.
- 10. MODIFICATIONS PRIOR TO DATE SET FOR OPENING BIDS: The University reserves the right to revise or amend the specifications prior to the date set for opening bids. Such revisions and amendments, ifany, will be announced by an amendment or amendments to this Invitation for Bids and shall be identified as such. It is required that the bidders acknowledge in writing receipt of all amendments issued and such acknowledgment must be included in the bid. The

### **ADMINISTRATION & FINANCE**



Consolidated Procurement Office

amendment shall refer to the portions of the Invitation forBids it amends. Amendments shall be sent to all prospective Bidders known to have received an Invitation for Bids. Amendments shall be distributed within a reasonable time to allow prospective Bidders to considerthe amendment in preparing their Bids. If the time and date set for receipt of bids will not permit such preparation, such time shall be increased to the extent possible in the amendment or, if necessary, by email or telephone and confirmed in the amendment.

- 11. CANCELLATION OF SOLICITATION: Prior to the date set for opening bids, a solicitation may be cancelled in whole or in part when the President or his designee determines in writing that the cancellation of the solicitation is in the University's best interest, in accordance with the University's Procurement Rulesand Regulations.
- 12. METHOD OF AWARD: Bid shall be awarded to the [x] lowest, [] highest, responsible and responsive bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids. A responsible bidder is one who has the capability in all respects to perform fully the contract requirements, and the integrity and reliability which will assure good faith performance. A responsive bidder is one who has submitted a bid which conforms in all material respects to the Invitation for Bids. The University reserves the right to waive any minor information of irregularity in Bids received. The President shall have the authority to award or reject Bids, in whole or in part for any one or more items if he determines it is in the public interest.

Award issued to the [x] lowest, [] highest, responsible and responsive bidder within the specified time foracceptance as indicated in the Bid, results in a binding contract without further action by either party provided the successful bidder executes a formal contract with the University. In case of any error in the extension of prices, unit price will govern. It is the policy of the Government of Guam to award Bids to qualified local vendors.

#### 13. SUBMISSION OF BIDS:

- **a.** Bids and modifications thereof shall be submitted through electronic submission to the Share folder that UOG procurement office provides and addressed to the office specified in the Solicitation. The electronic file submission will show the hour and date of submission as specified in the Solicitation for receipt. The file should identify the Solicitation number, and the name of the bidder.
- b. Bids may be modified or withdrawn by written or telegraphic notice, provided such notice is received prior to the hour and date specified for receipt (see paragraph 9 of these instructions).
- C. Samples of items, when required, must be submitted within the time specified, unless otherwise specified by the University, at no expense to the University. If not destroyed by testing, sampleswill be returned at bidder's request and expense, unless otherwise specified by the Solicitation.
- **d.** Samples or descriptive literature should not be submitted unless it is required on this Solicitation. Regardless of any attempt by a bidder to condition the bid, unsolicited samples or descriptive literature will not be examined or tested at the bidder's risk, and will not be deemed to vary any ofthe provisions of this Solicitation.





- 14. FAILURE TO SUBMIT BID: If no bid is to be submitted, do not return the Solicitation unless otherwise specified. A letter or postcard shall be sent to the issuing office advising whether future Solicitations for the type of supplies or services covered by this Solicitation is desired.
- 15. PRE-BID CONFERENCES. Pre-Bid conferences will be permitted any time prior to the date established herein for submission of bid. The conferences will be conducted only to explain the procurement requirements for this Request for Proposal. The Authority will notify all Bidders of any substantive clarification provided in response to any inquiry. The Authority will extend the due date if such information significantly amends the solicitation or makes compliance with the original proposed due date impractical.
- 16. BID PACKET. The prospective bidder is required to read each and every page of the Bid Packet and bythe act of submitting a proposal shall be deemed to have accepted all conditions contained therein. In no case will failure to inspect constitute grounds for claim or for the withdrawal of a bid after opening. Bid submission shall be sent electronically. Erasures or other changes in a bid must be explained or noted over the signature of the offeror. Bid submission containing any conditions, omissions, unexplained erasure or alterations or items not called for in the Bid packet, or irregularities of any kind may be rejected by the University as being incomplete.
- 17. BID PACKET FORM. A non-refundable fee of \$25.00 (U.S.) shall be charged for each hard copy or CD ROM bid packet. All payments shall be made by cash, certified check or money order to the University of Guam. Cashier services are located at the UOG Administration Building Mon-Fri from 8am-4pm by appointment only. Payby phone is also available from 8am-4pm at 735-2923/45/46.
- 18. NOTICE OF AWARD. UOG will notify all bidders the status of the Bid and Notice of Award. Written notice of award will be public information and made a part of the contract file.
- 19. LOCAL PROCUREMENT PREFERENCE: "All procurement of supplies and services shall be made from among businesses licensed to do business on Guam in accordance with Guam Code Annotated Title 5 Chapter 5 Section 5008 and Section 3.9.14.5, UOG Procurement Regulation."
- 20. BIODEGRADABLE, REUSEABLE, RECYCLABLE MATERIALS: Section 1.5, UOG Procurement Regulations. UOG's President or his designee, whenever possible, shall procure products that are biodegradable, reusable, recyclable, or made of recycled material, or any of these in any combination. The cost (prior to any adjustments for local vendors) of appropriate biodegradable, reusable, recyclable, or recycled products may be as much as ten percent (10%) greater than the cost of the non-biodegradable, non-recyclable, or non- recycled products they are replacing.
- 21. SERVICE-DISABLED VETERAN PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by a service-disabled veteran(s) who served in the active U.S. military: (1) Who was discharged or released under honorable conditions and whose disability is service-connected as demonstrated by a DD Form 214, and certified by an award letter from the U.S. Department of Veterans Affairs; (2) That submitted the DD Form 214 and Disability award letter from the U.S. Department of Veterans Affairs with their bid submitted in response to this solicitation; (3) The service-disabled veteran(s) owner of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (4) The business concern is licensed to do business on Guam; (5) The business concern maintains its headquarters on Guam; (6) the supply or service offered by the business concern is available within the period required by UOG; and (7) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Service-Disabled Veteran Preference is given in addition to any other procurement benefit the service-disabled veteran owned business may qualify for under Guam law.

## ADMINISTRATION & FINANCE Consolidated Procurement Office



- 22. WOMEN OWNED BUSINESS PREFERENCE: UOG will award the contract for this solicitation to bidders that are business concerns that are at least fifty-one-percent (51%) owned by women, who manage day-to-day operations and make long-term decisions, and: (1) The owner(s) of the business concern has filed individual tax returns on Guam for a period of at least three (3) consecutive years; (2) The business concern is licensed to do business on Guam; (3) The business concern maintains its headquarters on Guam; (4) the supply or service offered by the business concern is available within the period required by UOG; (5) The business concern is certified as a Women-Owned Small business (WOSB) or an Economically Disadvantaged Women-Owned Small Business (EDWOSB) by the U.S. Small Business Administration; and (6) The price for the supply or service does not exceed one-hundred-five-percent (105%) of the lowest price bidder. The Women Owned Business Preference is given in addition to any other procurement benefit the women owned business may qualify for under Guam law.
- 23. DETERMINING LOWEST PRICE IF BIDDERS CLAIM PREFERENCES. In accordance with 5 G.C.A. §5013(a), UOG shall determine the lowest price in the case of more than one (1) women-owned business, or a women-owned business and a service-disabled veteran owned business, who are competing for the same government contract.
- 24. MULTIPLE OR ALTERNATIVE BIDS. UOG shall not accept any multiple or alternative bid and shall reject any multiple or alternate bids its received. However, if a bidder clearly indicates a base bid, such base bid shall be considered for award as though it were the only bid submitted by the bidder. If UOG is not able to distinguish which bid is the base bid, it will reject all the multiple or alternative bids submitted by the bidder.
- 25. MULTI-TERM CONTRACT. If a multi-term contract is awarded for this solicitation, the amount of supplies or services stated on the bid price form of this solicitation shall be the amount of supplies or services required for the proposed contract period and the unit prices given by the bidder awarded the contract shall be the same throughout the multi-term contract period, except to the extent that price adjustments may be provided in this solicitation and the resulting contract, and UOG may cancel, after giving timely notice to the contractor, the multi-term contract if funds are not appropriated or otherwise made available to support continuation of performance in any fiscal period succeeding the first. However, this will not effect either UOG's rights or the contractor's rights under any termination clause in the contract. If the contract is canceled, the contractor will be reimbursed the unamortized, reasonably incurred, nonrecurring costs.

### **ATTACHMENT A**

### GENERAL TERMS AND CONDITIONS FOR THE INVITATION FOR BIDS

- 1. COMPLIANCE WITH SPECIFICATIONS: Bidder should comply with specifications outlined.
- 2. LATE BIDS, LATE WITHDRAWALS, AND LATE MODIFICATIONS:

Any bid received after the time and date set for receipt of bids is late. Any withdrawal or modification of a bid received after the time and date set for opening of bids at the place designated for opening is late. (Section 3.9.11.1, University of Guam Procurement Manual).

- 3. DETERMINATION OF LOWEST RESPONSIBLE BIDDERS: In determining lowest responsible bidder, the University shall be guided by the following:
  - (a) Price of bid items.
  - (b) The ability, capacity, and skill of the bidder to perform.
  - (c) Whether the bidder can perform promptly or within the specified time.
  - (d) The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
  - (e) The quality of performance of the bidder with regards to awards previously made to him.
  - (f) The previous and existing compliance by the bidder with laws and regulations relative to procurement.
  - (g) The sufficiency of the financial resources and ability of the bidder to perform.
  - (h) The quality, availability, and adaptability of the supplies for the use of the subject of the award.
  - (i) The ability of the bidder to provide future maintenance and services for the use of the subject of the award.
  - (j) The number and scope of the conditions attached to the bid.
- 4. LOW TIE BIDS: Low tie bids are low responsive bids from responsible bidders that are identical in price and which meet all the requirements and criteria set forth in the Invitation for Bids. Award shall not be made by drawing lots, except as set forth UOG Procurement Regulations Section 3.9.15, or by dividing business among identical bidders.
- 5. TAXES: Bidders are cautioned that they are subject to Guam Business Privilege Taxes, including 4% Gross Receipt Tax and Guam Income Taxes on Guam Transactions. Specific information of taxes may be obtained from the Director of Revenue and Taxation.
- 6. LICENSING: Bidders are cautioned that the University will not consider for award any Bid Offer submitted by a bidder who has not complied with Guam Licensing Law. Specific information on licenses may be obtained from the Director of Revenue and Taxation.
- 7. EQUAL EMPLOYMENT OPPORTUNITY: Section 3.01(1) of the President Executive Order No. 10935 dated March 7, 1965, requires the bidder not to discriminate against any employee or applicant for employment because of race, creed, color or national origin. The bidder will take affirmative action to

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ensure that applicants are employed and the employees are treated equally during employment without regard to their race, creed, color or national origin.

- 8. DETERMINATION OF RESPONSIBILITY OF BIDDER: The University reserves the right for securing from bidders information necessary to determine whether or not they are responsible and to determine the responsibility in accordance with Section 3 of the General Terms and Conditions.
- 9. JUSTIFICATION OF DELAY: Vendors who are awarded items under the Bid guarantee that the goods will be delivered to their destination within the time specified. If the vendor is not able to meet the specified delivery date, he is required to notify the purchasing agent of such delay. Notification shall be in writing and should be received by the agent at least twenty-four (24) hours before the specified delivery date. Notification of delay shall include an explanation of the causes and reasons for the delay including statement(s) from supplier or shipping company causing the delay. The University of Guam reserves the right to reject delay justification if in the opinion of the President such justification is not adequate.
- 10. EQUAL OPPORTUNITY EMPLOYER AND PROVIDER: It is the policy of the University of Guam to provide equal opportunity in its higher educational mission and as employer. The University complies with all federal and local statutes, rules and regulations which prohibit discrimination in its policies and practices and direct affirmative action, including but not limited to Titles VII and IX of the Civil Rights Act of 1964 (as amended), Executive Order 11246, and the Equal Pay act of 1963 (as amended). The University shall promote a full realization of equal opportunity through a positive, continuing program, including a requirement that those doing business with the University also are equal opportunity employers.
- EMPLOYMENT RESTRICTION: If a contract for services is awarded to the bidder or offeror, then 11. the service provider must warrant that no person in its employment who has been convicted of a sex offense under the provisions of Chapter 25 of Title 9 of the Guam Code Annotated or of an offense defined in Article 2 of Chapter 28 of Title 9 of the Guam Code Annotated, or who has been convicted in any other jurisdiction of an offense with the same elements as heretofore define, or who is listed on the Sex Offender Registry, shall provide services on behalf of the service provider while on University of Guam property. with the exception of public highways. If any employee of a service provider is providing services on University property and is convicted subsequent to an award of a contract, then the service provider warrants that it will notify the University of the Conviction, within twenty-four hours of the conviction, and will immediately remove such convicted person from providing services on University property. If the service provider is found to be in violation of any of the provisions of this paragraph, then the University will give notice to the service provider to take corrective action. The service provider shall take corrective action within twenty-four hours of notice from the University, and the service provider shall notify the University when action has been taken. If the service provider fails to take corrective steps within twenty-four hours of notice from the University, then the University in its sole discretion may suspend temporarily any contract for services until corrective action has been taken.
- 12. (X) (Required if checked) BID SECURITY REQUIREMENT (Attachment D): Bidder is required to submit a Bid Security or standby irrevocable Letter of Credit or Certified Check or Cashier's Check or other security supplied in a form satisfactory to the University in the same bid envelope to be held by the University of Guam (UOG). A bidder should contact the University for Pre-approval of the bid security requirement before the deadline for submission of bid packages if it is proposing security in a form not specifically listed above. The bid security required under any applicable invitation for Bid shall not be released upon award of the bid, but instead shall continue in full force and effect until delivery of the

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supplies or services required by any contract awarded to contractor under the associated Invitation for Bid is completed. The Bid Security, Letter of Credit, Certified Check or Cashier's Check must be issued by any local surety or banking institution licensed to do business on Guam and made payable to the University of Guam in the amount of fifteen percent (15%) of the total amount bid. The Original Bid Security must be submitted to the UOG Procurement office on or before bid submission deadline. Personal Checks will not be accepted as Bid Security.

If a successful Bidder (contractor) withdraws from the bid or fails to enter into contract within the prescribed time, such Bid guarantee will be forfeited to the University of Guam. Bids will be disqualified if not accompanied by Bid Security, Letter of Credit, Certified Check or Cashier's Check. Bidder must include in his/her bid, valid copies of a Power of Attorney from the Surety and a Certificate of Authority from the Government of Guam to show proof that the surety company named on the bond instrument is authorized by the Government of Guam and qualified to do business on Guam. For detailed information on bonding matters, contact the Department of Revenue and Taxation. Failure to submit a valid Power of Attorney and Certificate of Authority on the surety is cause for rejection of bid. (Pursuant to Public Law 27-127, all competitive sealed bidding for the procurement of supplies or services, exceeding \$25,000.00, a 15% Bid Security of the total bid price must accompany the bid package.) When the Invitation for Bids requires bid security, non-compliance requires that the bid be rejected unless, pursuant to Policy Office regulations, it is determined that the bid fails to comply in a non-substantial manner with the security requirements.

- 13. INDEPENDENT CONTRACTOR: Contractor shall operate its business as an independent contractor and shall discharge all of its duties as such. No act performed or representation made, whether oral or written by Contractor with respect to third parties shall be binding on UOG.
- 14. INDEMNITY: Contractor agrees to indemnify and hold harmless UOG and its officers and employees from any claim, damage, liability, injury, expense or loss, including defense costs and attorney's fees, arising out of Contractor's duties under this agreement resulting from Contractor's negligence, save and except those caused by the negligence on the part of UOG.

### ATTACHMENT B

### SPECIAL GENERAL PROVISIONS

- 1. GENERAL INTENTION: It is the declared and acknowledged intention and meaning of this Special General Provision for the Bidder to provide the University of Guam with materials, supplies, or equipment completely assembled, and ready for use.
- 2. COMPETENCY OF BIDDERS: Bids will be considered only from such bidders who, in the opinion of the University, can show evidence of their ability, experience, and facilities to render satisfactory service.
- 3. CONTACT FOR CONTRACT ADMINISTRATION: If your firm receives a contract as a result of this invitation, please designate a person whom we may contact for prompt administration.

NAME: Roberto Perez		TITLE: CFO / General Manager		
NAME OF COMPANY:	JWS Refrigeration & Air Conditioning, Ltd	_ADDRESS: 290 Tun Jose Salas St. Suite A Tamuning, GU 96913		
TEL: (671) 588-5979	FAX: (671) 649-0053	F-Mail Address: roberto@iwsquam.com		

- 4. INSPECTION: All supplies, materials, or equipment delivered under this contract shall be subject to the inspection and test conducted by the University at destination. If, in any case, the supplies, materials, or equipment are found to be defective in material, workmanship, performance or otherwise does not conform to the specifications, the University shall have the right to reject the items or require that they be corrected. The number of days required for correction will be determined by the University of Guam.
- 6. BID ELECTRONIC FILE: Bid file shall be marked with the bidder's name, bid invitation number, and bid title.

NOTE: UNDER NO CIRCUMSTANCES WILL LATE BIDS BE ACCEPTED BY THIS OFFICE.

- 7. RECEIPT, OPENING AND RECORDING OF BIDS: Bids and modifications shall be publicly opened in the presence of one or more witnesses, at the time, date, and place designated in the Invitation for Bid. The name of each bidder, the bid price, and such other information as is deemed appropriate by the Procurement Officer, shall be read aloud and recorded, or otherwise made available. The names and addresses of required witnesses shall be recorded at the opening. The opened bids shall be available for public inspection except to the extent the bidder designates trade secrets or other proprietary data to be confidential as set forth in accordance with Section 8, below. Materials so designated shall accompany the bid and shall be readily separable from the bid in order to facilitate public inspection of the non-confidential portion of the bid. Prices, makes and models or catalogue numbers of the items offered, deliveries, and terms of payment shall be publicly available at the time of bid opening regardless of any designation to the contrary.
- 8. CONFIDENTIAL DATA: The Procurement Officer shall examine the bids to determine the validity of any requests for nondisclosure of trade secrets and other proprietary data identified in writing. If the parties do not agree as to the disclosure of data, the Procurement Officer shall inform the bidders in writing what portions of the bid will be disclosed and that, unless the bidders protest under Chapter 9 of UOG Procurement Regulations, the bids will be so disclosed. The bids shall be opened to public inspection subject to any continuing prohibition on the disclosure of confidential data.

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9. INQUIRIES: All inquiries or questions and concerns must be submitted to the President of the University of Guam in writing through the procurement office at <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a> . Oral communications will not be considered.

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### **ATTACHMENT C**

### **BIDDER'S QUALIFICATIONS**

To be submitted in accordance with the provisions set forth in the INSTRUCTIONS TO BIDDERS contained in the bidding documents for the project.

The undersigned Bidder makes the following representations relating to its proposal to the UNIVERSITY OF GUAM.

The word "it", used herein by way of reference to the undersigned, shall be deemed to mean "he or she" if the Bidder is an individual and "they" if the Bidder is a partnership

1.	It maintains a permanent place of business at
	290 Tun Jose Salas St. Suite A Tamuning, GU 96913

- 2. STANDARD FOR DETERMINATION OF QUALIFIED BIDDER: In order to qualify as responsible, a prospective bidder must meet the following standards as they relate to the particular procurement under consideration:
  - (a) Has adequate financial resources for performance, or has the ability to obtain such resources as required during performance.
  - (b) Has the necessary experience, organization, technical qualifications, skills, and facilities, or has the ability to obtain them.
  - (c) Is able to comply with the proposed or required performance schedule.
  - (d) Has a satisfactory record of integrity, judgment, and performance.
  - (e) Must be able to conform to the requirements of the Equal Employment Opportunity Act.
- 3. It hereby represents and warrants that all statements set forth herein are true and correct. (If the Bidder is a partnership, the partnership name must be signed, followed by the signature of at least one of the partners. If the Bidder is a corporation, the corporate name must be signed, followed by the signature of a duly authorized officer and the corporate seal affixed. A typewritten copy of all such names and signatures shall be appended. No alterations, erasures, corrections or interlineations will be permitted).

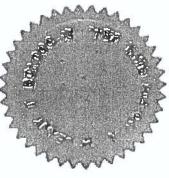
NAME OF BIDDER

12| 9508

# ATTACHMENT E MAJOR SHAREHOLDER DISCLOSURE AFFIDAVIT

CITY O	F Tamuning	ooddadagaaaaaaaaa,aa					
		) ss.					
ISLAND	OF GUAM	)					
A.	I, the undersigne and that (please	ed, being first dul check only one)	y sworn depose a ;	nd say that I am a	n authorized	representat	ive of the offeror
()	The offeror is an	individual or sol	e proprietor and c	wns the entire (1	00%) interest	in the offeri	ng business.
S	The offeror is a conjugate of JWS Refrigeration	corporation, parts	nership, joint vent 3. Ltd.		n known as tate name of	offeror	
shares o	company), and to or interest in the of are as follows (if	offering busines	npanies, partners s during the 365 state):	, or joint venture	s who have h	neld more ti	han 10% of the sion date of the
John W.	NAME_ Scragg		ADDRESS 160 Hegao St.	Asan, Guam	99%	% of <u>Interes</u>	<u>st</u>
		<del></del>					
В.	Further, I say the compensation for is submitted are	r procuring or as	ho have received sisting in obtaining se, please so state	g business related	receive a co d to the bid or	mmission, ( proposal fo	gratuity or other r which affidavit
	NAME		<u>ADDRESS</u>	€		Co	mpensation
C.	If the ownership an award is made 5 GCA § 5233 by	e or a contract is	usiness should che entered into, then ner affidavit to the	I promise persor	e time this affinally to update	idavit is ma the disclos	de and the time sure required by
				<u>//·</u>		2	
			(	Signature of o			
				Offeror, if the			
				Partner, if the Officer, if the			
<b>.</b>				-		-11	AAA.
	ed and sworn to l						
This	24th day of Lov	1. , 20 <u>2</u> 1	Г	JEANY T	RONDO	C	

NOTARY PUBLIC
In and for Guam, U.S.A.
My Commission Expires: MARCH 31, 2024
P.O.BOX 26823 Barrigada, Guam 96921



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UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT

My commission expires mne at 31 2024 (AG Popularity Form 002 (Rev. Nov. 17, 2005)

NOTARY PUBLIC

# ATTACHMENT F

ALLIDATI IE NO	N-COLLUSION
CITY OF Tamuning	
) ss.	
John W. Scragg sworn deposes and says that:	_ (state name of affiant singing below), being first duly
The name of the offering company     JWS Refrigeration & Air Conditioning, Ltd	or individual is (state name of company)
offeror has not colluded, conspired, connicted offeror or person, to put in a sham proposed not in any manner, directly or indirectly, sour or conference, with any person to fix the proposed any overhead, profit or cost element of said secure any advantage against the government.	above is genuine and not collusive or a sham. The ved or agreed, directly or indirectly, with any other all or to refrain from making an offer. The offeror has aght by an agreement or collusion, or communication opposal price of offeror or of any other offeror, or to fix d proposal price, or of that of any other offeror, or to ent of Guam or any person interested in the proposed in the proposal are true to the best of the knowledge a pursuant to 2 GAR Division 4 § 3126(b).
offeror's officers, representatives, agents, s	ture of one of the offeror is an individual; Partner, if the offeror is a corporation

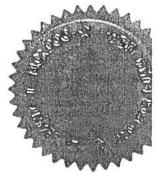
Subscribed and sworn to before me

24th day of NOV. , 2021

NOTARY PUBLIC

My commission expires \_\_mff ct \_ 3t (AG F confirment Form 003 (Jul. 12, 2010)

In and for Guam, U.S.A.
My Commission Expires: MARCH 31, 2024
P.O.BOX 26823 Barrigada, Guam 96921



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### **ATTACHMENT G AFFIDAVIT re GRATUITIES. KICKBACKS AND FAVORS**

CITY OF Tamun					
ISLAND OF GU	) ss. AM )				
John W.	Scragg	(state name of a	offiant signing below	v), being first d	lulv sworn.
deposes and say	ys that:	•	<b>V</b> • <b>V</b> • • • • • • • • • • • • • • • • • • •	,,	, a., o., o., ,
JWS R of th fore, 2. To repro agai Furti	Refrigeration & Air Conc ne following: the off going identified bid of the best of affiant esentatives, agents s inst gratuities, kickba her, affiant promises	offering firm or individual additioning, Ltd. = Affiant is offeror, a partner of the coor proposal.  In this knowledge, neither subcontractors, or employ backs and favors set forthes, on behalf of offeror, not set forthin UOG Procure	the offeror  fferor, and officer of  affiant, nor any offices have violated, and in UOG Procurer  of to violate the pro-	of the offeror) of the offeror' are violating the nent Manual Sention against	(state one making the s officers, prohibition ection 11.7

3. To the best of affiant's knowledge, neither affiant, nor any of the offeror's officers. representatives, agents, subcontractors, or employees have offered, given or agreed to give, any government of Guam employee or former government employee, any payment, gift, kickback, gratuity or offer of employment in connection with the offeror's proposal.

4. I make this statement on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

Signature of one of the following: -

Offeror, if the offeror is an individual: Partner, if the offeror is a partnership; Officer, if the offeror is a corporation

Subscribed and sworn to before me

24th day of 1414, 2021

My commission expires <u>March 31</u> (AG Proceeding Tom 004 (Jul 12 2010)

In and for Guam, U.

My Commission Expires: MARCH 31, 2024 P.O.BOX 26823 Barrigada, Guam 96921

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# ATTACHMENT H AFFIDAVIT RE ETHICAL STANDARDS

CITY OF Tamuning	
) ss. ISLAND OF GUAM )	
the offeror  The affiant is the offeror  the offeror, an officer of the offeror) making the foreknowledge, neither affiant nor any officers, representative knowingly influenced any government of Guaforth in 5 GCA Chapter 5, Article 11. Further, a reprehensive, agent, subcontractor, or employee of	state name of affiant signing below), being first duly sworn,  (state one of the following: the offeror, a partner of egoing identified bid or proposal. To the best of affiant's entatives, agents, subcontractors or employees of offeror am employee to breach any of the ethical standards set affiant promises that neither he or she, nor any officer, offeror will knowingly influence any government of Guam in 5 GCA Chapter 5, Article 11. These statements are on 11.3.3.
<del>-</del> <del>9</del>	officer, if the offeror is a corporation.
Subscribed and swom to before me	
This day of	JEANY T. BONDOC NOTARY PUBLIC In and for Guam, U.S.A. My Commission Expires: MARCH 31, 2024 P.O.BOX 26823 Barrigada, Guam 96921
	17   <sup>2</sup> 2 ⊊ 6

# ATTACHMENT I <u>DECLARATION re COMPLIANCE WITH U.S. DOL WAGE DETERMINATIONS</u>

Procurement No.: <u>UOG BID B21-17</u>

L. John W. Scrago

Name of Offeror Company:	JWS Refrigeration & Air Conditioning, Ltd.
--------------------------	--

	1, 33		nereby certify under penalty of penjury:
(1)	That I am _	the offeror	(please select one: the offeror, a partner of the
	offeror, an	officer of the offeror	r) making the bid or proposal in the foregoing identified procurement:

(2) That I have read and understand the provisions of 5 GCA § 5801 and 5802 which read:

§ 5801. Wage Determination Established.

In such cases where the government of Guam enters into contractual arrangements with a sole proprietorship, a partnership or a corporation ("contractor") for the provision of a service to the government of Guam, and in such cases where the contractor employs a person(s) whose purpose, in whole or in part, is the direct delivery of service contracted by the government of Guam, then the contractor shall pay such employee(s) in accordance with the Wage Determination for Guam and the Northern Mariana Islands issued and promulgated by the U.S. Department of Labor for such labor as is employed in the direct delivery of contract deliverables to the government of Guam.

The Wage Determination most recently issued by the U.S. Department of Labor at the time a contract is awarded to a contractor by the government of Guam shall be used to determine wages, which shall be paid to employees pursuant to this Article. Should any contract contain a renewal clause, then at the time of renewal adjustments, there shall be made stipulations contained in the contract for applying the Wage Determination, as required by this Article, so the Wage Determination promulgated by the U.S. Department of Labor on a date most recent to the renewal date shall apply. § 5802. Benefits.

In addition to the Wage Determination detailed in this Article, any contract to which this Article applies shall also contain provisions mandating health and similar benefits for employees covered by this Article, such benefits having a minimum value as detailed in the Wage Determination issued and promulgated by the U.S. Department of Labor, and shall contain provisions guaranteeing a minimum of ten (10) paid holidays per annum per employees.

- (3) That the offeror is in full compliance with 5 GCA § 5801 and § 5802, as may be applicable to the procurement referenced herein;
- (4) That I have attached the most recent wage determination applicable to Guam issued by the U.S. Department of Labor. (INSTRUCTIONS Please attach most updated version to bid package) (AG Procurement Form 006 (Feb. 16, 2010)

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### "REGISTER OF WAGE DETERMINATIONS UNDER | THE SERVICE CONTRACT ACT | EMPLOYMEN

UNDER U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION

By direction of the Secretary of Labor

WAGE AND HOUR DIVISION WASHINGTON D.C. 20210

Daniel W. Simms Division of Director Wage Determinations

Wage Determination No.: 2015-5693

Revision No.: 13
Date Of Last Revision: 08/04/2021

Note: Under Executive Order (EO) 13658 an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2015. If this contract is covered by the EO the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination if it is higher) for all hours spent performing on the contract in calendar year 2021. The EO minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

States: Guam Northern Marianas Wake Island

Area: Guam Statewide

Northern Marianas Statewide

Wake Island Statewide

\*\*Fringe Benefits Required Follow the Occupational Listing\*\*

OCCUPATION CODE - TITLE FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations	
01011 - Accounting Clerk I	13.57
01012 - Accounting Clerk II	15.23
01013 - Accounting Clerk III	17.04
01020 - Administrative Assistant	21.43
01035 - Court Reporter	17.40
01041 - Customer Service Representative I	11.51
01042 - Customer Service Representative II	12.94
01043 - Customer Service Representative III	14.12
01051 - Data Entry Operator I	12.15
01052 - Data Entry Operator II	13.25
01060 - Dispatcher Motor Vehicle	17.39
01070 - Document Preparation Clerk	13.85
01090 - Duplicating Machine Operator	13.85
01111 - General Clerk I	10.35
01112 - General Clerk II	11.29
01113 - General Clerk III	12.68
01120 - Housing Referral Assistant	19.39
01141 - Messenger Courier	11.37
01191 - Order Clerk I	12.57
01192 - Order Clerk II	13.71
01261 - Personnel Assistant (Employment) I	15.95
01262 - Personnel Assistant (Employment) II	17.85
01263 - Personnel Assistant (Employment) III	19.89
01270 - Production Control Clerk	21.78
01290 - Rental Clerk	11.10

	- Scheduler Maintenance	15.55
<b>01311</b>	- Secretary I	15.55
01312	- Secretary II	17.40
	- Secretary III	19.39
01320	- Service Order Dispatcher	15.40
	- Supply Technician	21.43
	- Survey Worker	16.96
	- Switchboard Operator/Receptionist	10.36
	- Travel Clerk I	13.01
	- Travel Clerk II	
	- Travel Clerk III	14.12
		15.09
	- Word Processor I	14.53
	- Word Processor II	16.31
	- Word Processor III	18.26
	Automotive Service Occupations	
	- Automobile Body Repairer Fiberglass	15.46
	- Automotive Electrician	14.52
05040	- Automotive Glass Installer	13.58
<b>05070</b>	- Automotive Worker	13.58
05110	- Mobile Equipment Servicer	11.65
<b>05130</b>	- Motor Equipment Metal Mechanic	15.46
	- Motor Equipment Metal Worker	13.58
	- Motor Vehicle Mechanic	15.46
	- Motor Vehicle Mechanic Helper	10.66
	- Motor Vehicle Upholstery Worker	
	- Motor Vehicle Wrecker	12.64
	- Painter Automotive	13.58
		14.52
	- Radiator Repair Specialist	13.58
	- Tire Repairer	12.67
	- Transmission Repair Specialist	15.46
	Food Preparation And Service Occupations	
<b>07010</b>	- Baker	10.47
07041	- Cook I	13.26
07042	- Cook II	15.46
07070	- Dishwasher:	9.31
<b>07130</b>	- Food Service Worker	9.45
07210	- Meat Cutter	12.13
97269	- Waiter/Waitress	9.27
	Furniture Maintenance And Repair Occupations	7.27
	- Electrostatic Spray Painter	18.04
	- Furniture Handler	10.95
	- Furniture Refinisher	
	- Furniture Refinisher Helper	18.04
		13.27
	- Furniture Repairer Minor	15.70
	- Upholsterer	18.04
	General Services And Support Occupations	
	- Cleaner Vehicles	9.35
	- Elevator Operator	9.54
	- Gardener	13.00
	- Housekeeping Aide	9.54
11150	- Janitor	9.54
11210	- Laborer Grounds Maintenance	9.82
11240	- Maid or Houseman	9.32
11269	- Pruner	8.79
11270	- Tractor Operator	11.90
	- Trail Maintenance Worker	9.82
	- Window Cleaner	10.66
	Health Occupations	14.00
	- Ambulance Driver	40.00
	- Breath Alcohol Technician	18.23
		18.23
	- Certified Occupational Therapist Assistant	25.01
	- Certified Physical Therapist Assistant	25.01
	- Dental Assistant	16.32
	- Dental Hygienist	36.12
12030	- EKG Technician	25.99

4000 01 1 1		
12035 - Electroneurodiagnostic Technologist		25.99
12040 - Emergency Medical Technician		18.23
12071 - Licensed Practical Nurse I		16.30
12072 - Licensed Practical Nurse II		18.23
12073 - Licensed Practical Nurse III		20.32
12100 - Medical Assistant		12.26
12130 - Medical Laboratory Technician		18.82
12160 - Medical Record Clerk		
12190 - Medical Record Technician		13.61
		17.77
12195 - Medical Transcriptionist		16.30
12210 - Nuclear Medicine Technologist		40.06
12221 - Nursing Assistant I		11.34
12222 - Nursing Assistant II		12.75
12223 - Nursing Assistant III		13.91
12224 - Nursing Assistant IV		15.61
12235 - Optical Dispenser		18.23
12236 - Optical Technician		16.30
12250 - Pharmacy Technician		15.49
12280 - Phlebotomist		
		16.30
12305 - Radiologic Technologist		25.33
12311 - Registered Nurse I		23.18
12312 - Registered Nurse II		28.36
12313 - Registered Nurse II Specialist		28.36
12314 - Registered Nurse III		34.32
12315 - Registered Nurse III Anesthetist		34.32
12316 - Registered Nurse IV		41.13
12317 - Scheduler (Drug and Alcohol Testing)		·-·-
12320 - Substance Abuse Treatment Counselor		22.58
13000 - Information And Arts Occupations		22.58
13011 - Exhibits Specialist I		21.20
13012 - Exhibits Specialist II		26.27
13013 - Exhibits Specialist III		32.13
13041 - Illustrator I		21.20
13042 - Illustrator II		26.27
13043 - Illustrator III		32.13
13047 - Librarian		29.09
13050 - Library Aide/Clerk		16.88
13054 - Library Information Technology Systems		
Administrator		<b>26.27</b>
13058 - Library Technician		
		16.64
13061 - Media Specialist I		18.96
13062 - Media Specialist II		21.20
13063 - Media Specialist III		23.63
13071 - Photographer I		18.96
13072 - Photographer II		21.20
13073 - Photographer III		26.27
13074 - Photographer IV		32.13
13075 - Photographer V		
13090 - Technical Order Library Clerk		38.88
		21.20
13110 - Video Teleconference Technician		18.96
14000 - Information Technology Occupations		
14041 - Computer Operator I		15.71
14042 - Computer Operator II		17.22
14043 - Computer Operator III		19.19
14044 - Computer Operator IV		21.33
14045 - Computer Operator V		23.62
14071 - Computer Programmer I	(see 1)	15.73
14072 - Computer Programmer II	(see 1)	
14073 - Computer Programmer III		19.50
	(see 1)	23.84
14074 - Computer Programmer IV	(see 1)	
14101 - Computer Systems Analyst I	(see 1)	24.23
14102 - Computer Systems Analyst II	(see 1)	
14103 - Computer Systems Analyst III	(see 1)	
14150 - Peripheral Equipment Operator	• •	15.71
14160 - Personal Computer Support Technician		21.33
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4 4 4 7 0	C	
	- System Support Specialist	21.24
	Instructional Occupations - Aircrew Training Devices Instructor (Non-Rated)	24.02
	- Aircrew Training Devices Instructor (Non-Rated) - Aircrew Training Devices Instructor (Rated)	24.23
	- Air Crew Training Devices Instructor (Rated)	29.32
	- Computer Based Training Specialist / Instructor	34.91 24.23
	- Educational Technologist	27.61
	- Flight Instructor (Pilot)	34.91
	- Graphic Artist	20.47
	- Maintenance Test Pilot Fixed Jet/Prop	34.91
	- Maintenance Test Pilot Rotary Wing	34.91
	- Non-Maintenance Test/Co-Pilot	34.91
	- Technical Instructor	17.67
15095	- Technical Instructor/Course Developer	23.78
15110	- Test Proctor	15.70
	- Tutor	15.70
	Laundry Dry-Cleaning Pressing And Related Occupations	
	- Assembler	10.12
	- Counter Attendant	10.12
	- Dry Cleaner	11.56
	- Finisher Flatwork Machine	10.12
	- Presser Hand	10.12
	- Presser Machine Drycleaning	10.12
	- Presser Machine Shirts	10.12
	- Presser Machine Wearing Apparel Laundry	10.12
	- Sewing Machine Operator	12.04
	- Tailor	12.52
	- Washer Machine	10.60
10010	Machine Tool Operation And Repair Occupations - Machine-Tool Operator (Tool Room)	40.44
	- Tool And Die Maker	19.46
	Materials Handling And Packing Occupations	24.46
	- Forklift Operator	13.96
	- Material Coordinator	21.78
	- Material Expediter	21.78
	- Material Handling Laborer	11.37
	- Order Filler	9.76
	- Production Line Worker (Food Processing)	13.96
	- Shipping Packer	17.12
	- Shipping/Receiving Clerk	17.12
	- Store Worker I	15.22
21150	- Stock Clerk	21.40
21210	- Tools And Parts Attendant	13.96
	- Warehouse Specialist	13.96
	Mechanics And Maintenance And Repair Occupations	
	- Aerospace Structural Welder	25.04
	- Aircraft Logs and Records Technician	19.47
	- Aircraft Mechanic I	23.84
	- Aircraft Mechanic II	25.04
	- Aircraft Mechanic III	26.30
	- Aircraft Mechanic Helper	16.58
	- Aircraft Painter	22.39
	- Aircraft Servicer	19.47
	- Aircraft Survival Flight Equipment Technician	22.39
	- Aircraft Worker	21.03
	- Aircrew Life Support Equipment (ALSE) Mechanic	21.03
I 22002	Aingnow Life Cumport Equipment (ALCE) Northanda	
23692 II	- Aircrew Life Support Equipment (ALSE) Mechanic	23.84
	- Appliance Mechanic	10.4-
	- Bicycle Repairer	19.46
	- Cable Splicer	15.61 19.59
	- Carpenter Maintenance	16.07
	- Carpet Layer	18.20
	- Electrician Maintenance	18.05
		10.63

23181 - Electronics Technician Maintenance I	18.20
23182 - Electronics Technician Maintenance II	
23102 - Clectionics Technician Maintenance II	19.46
23183 - Electronics Technician Maintenance III	20.72
23260 - Fabric Worker	16.94
23290 - Fire Alarm System Mechanic	16.77
23310 - Fire Extinguisher Repairer	
22211 - First Distribution Contact to the chart	15.61
23311 - Fuel Distribution System Mechanic	20.72
23312 - Fuel Distribution System Operator	15.61
23370 - General Maintenance Worker	12.01
23380 - Ground Support Equipment Mechanic	
22201 - Ground Commont Confirmant Continuent	23.84
23381 - Ground Support Equipment Servicer	19.47
23382 - Ground Support Equipment Worker	21.03
23391 - Gunsmith I	15.61
23392 - Gunsmith II	
23393 - Gunsmith III	18.20
	20.72
23410 - Heating Ventilation And Air-Conditioning	17.50
Mechanic	
23411 - Heating Ventilation And Air Contidioning	10.64
Mechanic (Research Facility)	18.61
nechalic (Research Facility)	
23430 - Heavy Equipment Mechanic	19.27
23440 - Heavy Equipment Operator	17.76
23460 - Instrument Mechanic	
	20.72
23465 - Laboratory/Shelter Mechanic	19.46
23470 - Laborer	11.37
23510 - Locksmith	19.46
23530 - Machinery Maintenance Mechanic	
2250 Modeline y Particellance Plechanic	23.13
23550 - Machinist Maintenance	20.72
23580 - Maintenance Trades Helper	10.67
23591 - Metrology Technician I	20.72
23592 - Metrology Technician II	
23502 Methology recipited in	22.03
23593 - Metrology Technician III	23.33
23640 - Millwright	20.72
23710 - Office Appliance Repairer	19.46
23760 - Painter Maintenance	
	14.08
23790 - Pipefitter Maintenance	18.39
23810 - Plumber Maintenance	17.27
23820 - Pneudraulic Systems Mechanic	20.72
23850 - Rigger	
	20.72
23870 - Scale Mechanic	18.20
23890 - Sheet-Metal Worker Maintenance	17.35
23910 - Small Engine Mechanic	
23931 - Telecommunications Mechanic I	18.20
	19.76
23932 - Telecommunications Mechanic II	21.01
23950 - Telephone Lineman	18.24
23960 - Welder Combination Maintenance	18.31
23965 - Well Driller	
	21.13
23970 - Woodcraft Worker	20.71
23980 - Woodworker	15.61
24000 - Personal Needs Occupations	15.01
24550 - Case Manager	
	15.01
24570 - Child Care Attendant	10.09
24580 - Child Care Center Clerk	13.25
24610 - Chore Aide	
	12.78
24620 - Family Readiness And Support Services	15.01
Coordinator	
24630 - Homemaker	16.12
25000 - Plant And System Operations Occupations	10.12
25010 - Boiler Tender	20.72
25040 - Sewage Plant Operator	21.59
25070 - Stationary Engineer	20.72
25190 - Ventilation Equipment Tender	
	14.29
25210 - Water Treatment Plant Operator	21.59
27000 - Protective Service Occupations	
27004 - Alarm Monitor	10,90
27007 - Baggage Inspector	-
rigor a paggage rushectol.	9.48

27008 - Corrections Officer	12.05
27010 - Court Security Officer	12.05
27030 - Detection Dog Handler	10.90
27040 - Detention Officer	12.05
27070 - Firefighter	12.05
27101 - Guard I	9.48
27102 - Guard II	10.90
27131 - Police Officer I	12.05
27132 - Police Officer II	13.40
28000 - Recreation Occupations	
28041 - Carnival Equipment Operator	13.24
28042 - Carnival Equipment Repairer	14.46
28043 - Carnival Worker	9.78
28210 - Gate Attendant/Gate Tender	13.18
28310 - Lifeguard	11.01
28350 - Park Attendant (Aide)	14.74
28510 - Recreation Aide/Health Facility Attendant	11.84
28515 - Recreation Specialist	18.26
28630 - Sports Official	11.74
28690 - Swimming Pool Operator	17.71
29000 - Stevedoring/Longshoremen Occupational Services	1/./1
29010 - Blocker And Bracer	35 00
29020 - Hatch Tender	25.98
29030 - Line Handler	25.98
29041 - Stevedore I	25.98
	24.18
29042 - Stevedore II	27.79
30000 - Technical Occupations	
30010 - Air Traffic Control Specialist Center (HFO) (see 2)	40.29
30011 - Air Traffic Control Specialist Station (HFO) (see 2)	27.78
30012 - Air Traffic Control Specialist Terminal (HFO) (see 2)	30.59
30021 - Archeological Technician I	17.49
30022 - Archeological Technician II	19.56
30023 - Archeological Technician III	24.21
30030 - Cartographic Technician	23.18
30040 - Civil Engineering Technician	23.08
30051 - Cryogenic Technician I	25.57
30052 - Cryogenic Technician II	28.24
30061 - Drafter/CAD Operator I	17.49
30062 - Drafter/CAD Operator II	19.56
30063 - Drafter/CAD Operator III	20.77
30064 - Drafter/CAD Operator IV	25.57
30081 - Engineering Technician I	14.84
30082 - Engineering Technician II	16.66
30083 - Engineering Technician III	18.64
30084 - Engineering Technician IV	23.08
30085 - Engineering Technician V	28.24
30086 - Engineering Technician VI	34.16
30090 - Environmental Technician	23.08
30095 - Evidence Control Specialist	
30210 - Laboratory Technician	23.08
30221 - Latent Fingerprint Technician I	20.77
30222 - Latent Fingerprint Technician II	25.57
30240 - Mathematical Technician	28.24
	23.34
30361 - Paralegal/Legal Assistant I	19.54
30362 - Paralegal/Legal Assistant II	24.21
30363 - Paralegal/Legal Assistant III	29.61
30364 - Paralegal/Legal Assistant IV	35.83
30375 - Petroleum Supply Specialist	28.24
30390 - Photo-Optics Technician	21.93
30395 - Radiation Control Technician	28.24
30461 - Technical Writer I	23.08
30462 - Technical Writer II	28.24
30463 - Technical Writer III	34.16
30491 - Unexploded Ordnance (UXO) Technician I	25.60
30492 - Unexploded Ordnance (UXO) Technician II	30.98

30493 - Unexploded Ordnance (UXO) Technician III	27.42
30494 - Unexploded (UXO) Safety Escort	37.13
30495 - Unexploded (UXO) Sweep Personnel	25.60
30501 - Weather Forecaster I	25.60
30502 - Weather Forecaster II	25.57
30620 - Weather Observer Combined Upper Air Or (see 2)	31.09
Surface Programs	20.77
BACAC 11 11 - A	22.08
30621 - Weather Observer Senior (see 2) 31000 - Transportation/Mobile Equipment Operation Occupations	23.08
31010 - Airplane Pilot	30.00
31020 - Bus Aide	30.98 8.15
31030 - Bus Driver	10.66
31043 - Driver Courier	9.69
31260 - Parking and Lot Attendant	
31290 - Shuttle Bus Driver	9.91
31310 - Taxi Driver	11.65
31361 - Truckdriver Light	11.41
31362 - Truckdriver Medium	10.59
31363 - Truckdriver Heavy	11.61 14.64
31364 - Truckdriver Tractor-Trailer	
99000 - Miscellaneous Occupations	14.64
99020 - Cabin Safety Specialist	15 10
99030 - Cashier	15.10
99050 - Desk Clerk	9.63 9.70
99095 - Embalmer	
99130 - Flight Follower	25.60
99251 - Laboratory Animal Caretaker I	25.60
99252 - Laboratory Animal Caretaker II	23.38
99260 - Marketing Analyst	25.54
99310 - Mortician	21.54
99410 - Pest Controller	25.60
99510 - Photofinishing Worker	14.61
99710 - Recycling Laborer	13.45
99711 - Recycling Specialist	17.32
99730 - Refuse Collector	23.38
99810 - Sales Clerk	16.40
99820 - School Crossing Guard	9.87
	17.27
99830 - Survey Party Chief 99831 - Surveying Aide	23.01
99832 - Surveying Technician	13.08
99840 - Vending Machine Attendant	17.00
	23.38
99841 - Vending Machine Repairer	29.78
99842 - Vending Machine Repairer Helper	23.38

Note: Executive Order (EO) 13706 Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1 2017. If this contract is covered by the EO the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness injury or other health-related needs including preventive care; to assist a family member (or person who is like family to the employee) who is ill injured or has other health-related needs including preventive care; or for reasons resulting from or to assist a family member (or person who is like family to the employee) who is the victim of domestic violence sexual assault or stalking. Additional information on contractor requirements and worker protections

under the EO is available at www.dol.gov/whd/govcontracts.

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.60 per hour up to 40 hours per week or \$184.00 per week or \$797.33 per month

HEALTH & WELFARE EO 13706: \$4.23 per hour up to 40 hours per week or \$169.20 per week or \$733.20 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706 Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; and 4 weeks after 3 years. Length of service includes the whole span of continuous service with the present contractor or successor wherever employed and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year: New Year's Day Martin Luther King Jr.'s Birthday Washington's Birthday Memorial Day Independence Day Labor Day Columbus Day Veterans' Day Thanksgiving Day and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b) this wage determination does not apply to any employee who individually qualifies as a bona fide executive administrative or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than \$27.63 (or on a salary or fee basis at a rate not less than \$455 per week) an hour would likely qualify as exempt computer professionals (29 C.F.R. 541. 400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds \$27.63 per hour conformances may be necessary for certain nonexempt employees. For example if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage

Additionally because job titles vary widely and change quickly in the computer industry job titles are not determinative of the application of the computer professional exemption. Therefore the exemption applies only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

- (1) The application of systems analysis techniques and procedures including consulting with users to determine hardware software or system functional specifications;
- (2) The design development documentation analysis creation testing or modification of computer systems or programs including prototypes based on and related to user or system design specifications;
- (3) The design documentation testing creation or modification of computer programs related to machine operating systems; or
- (4) A combination of the aforementioned duties the performance of which requires the same level of skills. (29 C.F.R. 541.400).
- 2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

### \*\* HAZARDOUS PAY DIFFERENTIAL \*\*

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance explosives and incendiary materials. This includes work such as screening blending dying mixing and pressing of sensitive ordnance explosives and pyrotechnic compositions such as lead azide black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization modification renovation demolition and maintenance operations on sensitive ordnance explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with or in close proximity to ordnance (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands face or arms of the employee engaged in the operation irritation of the skin minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving unloading storage and hauling of ordnance explosive and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance explosives and incendiary material differential pay.

#### \*\* UNIFORM ALLOWANCE \*\*

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract by the employer by the state or local law etc.) the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition where uniform cleaning and maintenance is made the responsibility of the employee all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount or the furnishing of contrary affirmative proof as to the actual cost) reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However in those instances where the uniforms furnished are made of ""wash and wear"" materials may be routinely washed and dried with other personal garments and do not require any special treatment such as dry cleaning daily washing or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract by the contractor by law or by the nature of the work there is no requirement that employees be reimbursed for uniform maintenance costs.

#### \*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\*

The duties of employees under job titles listed are those described in the ""Service Contract Act Directory of Occupations"" Fifth Edition (Revision 1) dated September 2015 unless otherwise indicated.

\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE Standard Form 1444 (SF-1444) \*\*

#### **Conformance Process:**

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e. the work to be performed is not performed by any classification listed in the wage determination) be classified by the contractor so as to provide a reasonable relationship (i.e. appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification wage rate and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested

parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award the contractor prepares a written report listing in order the proposed classification title(s) a Federal grade equivalency (FGE) for each proposed classification(s) job description(s) and rationale for proposed wage rate(s) including information regarding the agreement or disagreement of the authorized representative of the employees involved or where there is no authorized representative the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action together with the agency's recommendations and pertinent information including the position of the contractor and the employees to the U.S. Department of Labor Wage and Hour Division for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt the Wage and Hour Division approves modifies or disapproves the action via transmittal to the agency contracting officer or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See 29 CFR 4.6(b)(2)(iii)).

Information required by the Regulations must be submitted on SF-1444 or bond paper.

When preparing a conformance request the ""Service Contract Act Directory of Occupations"" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember it is not the job title but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split combine or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."

### ATTACHMENT J AFFIDAVIT IS CONTINGENT FEES

ALLIDATILIE CONTINGENT PEED
CITY OF Tamuning ) ss. ISLAND OF GUAM )
John W. Scragg (state name of affiant signing below), being first duly sworn, deposes and says that:
The name of the offering company or individual is (state name of company)      JWS Refrigeration & Air Conditioning, Ltd.
<ol> <li>As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained any person or agency on a percentage, commission, or other contingent arrangement to secure this contract. This statement is made pursuant to UOG Procurement Manual Section 11.8.2</li> </ol>
3. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained a person to solicit or secure a contract with the government of Guam upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. This statement is made pursuant to UOG Procurement Manual Section 11.8.1.
<ol> <li>I make these statements on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.</li> </ol>
Signature of one of the following:  Offeror, if the offeror is an individual;  Partner, if the offeror is a partnership;  Officer, if the offeror is a corporation

Subscribed and sworn to before me

This 24th day of

My commission expires \_ (AG Precurement Form 007 (Jul. 15, 2010)

NOTARY PUBLIC
In and for Guam, U.S.A.
My Commission Expires: MARCH 31, 2024
P.O.BOX 26823 Barrigada, Guam 96921

19|Psge

UOG BID NO. B21-17 PURCHASING OF HVAC EQUIPMENT



### **EXHIBIT A**

# University of Guam BID SPECIFICATIONS OR EQUIVALENT

BID NO. <u>B21-17</u>

### JR0529 UOG HVAC EQUIPMENT PURCHASE

4/27/2021

Prepared by:

AMORIENT

Prepared for:

**UNIVERSITY OF GUAM** 





## SECTION 23 81 00 DECENTRALIZED UNITARY HVAC EQUIPMENT

### PART 1

### **GENERAL**

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

### AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. (AMCA)

AMCA 500-D (2018) Laboratory Methods of Testing Dampers for Rating AMCA 500-L (2015) Laboratory Methods of Testing Louvers for Rating

### AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

AHRI 540 (2020) Performance Rating Of Positive Displacement Refrigerant Compressors

**And Compressor Units** 

AHRI 700 (2019) Specifications for Fluorocarbon Refrigerants

ANSI/AHRI 210/240 (2008; Add 1 2011; Add 2 2012) Performance Rating of Unitary Air-Conditioning

& Air-Source Heat Pump Equipment

ANSI/AHRI 270 (2020) Sound Rating of Outdoor Unitary Equipment

ANSI/AHRI 460 (2005) Performance Rating of Remote Mechanical-Draft Air-Cooled Refrigerant

Condensers

## AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34 (2013) ANSI/ASHRAE Standard 15

Safety Standard for refrigeration systems and ANSI/ASHRAE Standard

34-Designtion and Safety Classification of Refrigerants

ASHRAE 15 & 34 (2013) ASHRAE Standard 34-2016 Safety

Standard for Refrigeration Systems/ASHRAE Standard 34-2016

Designation and Safety Classification of Refrigerants-ASHRAE Standard

34-2016

ASHRAE 52.2 (2012) Method of Testing General Ventilation Air-Cleaning Devices for

Removal Efficiency by Particle Size

ASHRAE 55 (2020) Thermal Environmental Conditions for Human Occupancy

ASHRAE 62.1 (2019) Ventilation for Acceptable Indoor Air Quality

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(2020) Methods of Testing Remote Mechanical-Draft Evaporative Refrigerant Condensers

ASHRAE 90.1 - IP (2019) Energy Standard for Buildings Except Low-Rise Residential

Buildings

ASHRAE 90.1 - SI (2019) Energy Standard for Buildings Except Low-Rise Residential

Buildings



### **ASTM INTERNATIONAL (ASTM)**

ASTM A307 (2021; E 2017) Standard Specification for Carbon Steel Bolts.

Studs, and Threaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM C1071 (2019) Standard Specification for Fibrous Glass Duct Lining Insulation

(Thermal and Sound Absorbing Material)

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2021) Standard Test Method for Surface Burning Characteristics of

**Building Materials** 

ASTM F104 (2011; R 2020) Standard Classification System for onmetallic Gasket

Materials

### NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA ICS 6 (1993; R 2016) Industrial Control and Systems: Enclosures

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and Generators

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA20-1; TIA 20-2; TIA 20-3;

TIA 20-4) National Electrical Code

### **UNDERWRITERS LABORATORIES (UL)**

UL 586 (2009; Reprint Dec 2017) UL Standard for Safety High-Efficiency

Particulate, Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment

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#### 1.2 SUBMITTALS

SD-03 Product Data Spare Parts

**Posted Instructions** 

Coil Corrosion Protection System Performance Tests Training

Inventory

Environmental Data

**Supplied Products** 

**SD-06 Test Reports** 

Refrigerant Tests, Charging, and Start-Up

**System Performance Tests** 

**SD-07 Certificates Service** 

**Organizations** 

SD-10 Operation and Maintenance Data

**Operation and Maintenance Manuals** 

### 1.3 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventory of all the stored items. Replace any materials found to be damaged, at no additional cost to the Government. During installation, cap piping and similar openings capped to keep out dirt and other foreign

### 1.4 ENVIRONMENTAL REQUIREMENTS

matter.

For proper Indoor Environmental Quality, maintain pressure within the building as indicated. Ventilation must meet or exceed ASHRAE 62.1 and all published addenda. Meet or exceed filter media efficiency as tested in accordance with ASHRAE 52.2. Thermal comfort must meet or exceed ASHRAE 55.

### 1.5 WARRANTY

Provide equipment with the 1 year manufacturer's warranty

### PART 2 PRODUCTS





Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, etc. in adequate detail to demonstrate compliance with contract requirements. Data includes manufacturer's recommended installation instructions and procedures. If vibration isolation is specified for a unit, include vibration isolator literature



containing catalog cuts and certification that the isolation characteristics of the isolators provided meet the manufacturer's recommendations. Submit data for each specified component. Minimum efficiency requirementsmust be in accordance with ASHRAE 90.1.

#### 2.1.1 Standard Products

Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard productsmust have been in satisfactory commercial or industrial use for 2 years prior to bid opening. The 2 year use includes applications of equipment and materials under similar circumstances and of similar size. The 2 years' experience must be satisfactorily completed by a product which has been sold or is offered for sale on the commercial market through advertisements, manufacturer's catalogs, or brochures. Products having less than a 2 year field service record will be acceptable if a certified record of satisfactory field operation, for not less than 6000 hours exclusive of the manufacturer's factory tests, can be shown. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.

### 2.1.2 Product Sustainability Criteria

### 2.1.2.1 Energy Efficient Equipment

Provide equipment meeting the minimum efficiency requirement as required by ASHRAI 90.1.

### 2.1.2.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated, all motors of 1 horsepower and above with open, drip proof, totally enclosed, or explosion proof fan cooled enclosures, must be the premium efficiency type in accordance with NEMA MG 1. Field wiring must be in accordance with manufacturer's instructions. Each motor must conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at the specified capacity without exceeding the nameplate rating of the motor. Motors must be continuous duty with the enclosure specified. Motor starters must be provided complete with thermal overload protection and other appurtenances necessary for the motor control indicated. Motors must be furnished with a magnetic across-the- line or reduced voltage type starter as required by the manufacturer. Motor duty requirements must allow for maximum frequency start-stop operation and minimum encountered interval between start and stop. Motors must be sized for the applicable loads. Motor torque must be capable of accelerating the connected load within 20 seconds with 80 percent of the rated voltage maintained at motor terminals during one starting period. Motor bearings must be fitted with grease supply fittings and grease relief to outside of enclosure. Manual or automatic control and protective or signal devices required for the operation specified and any control wiring required for controls and devices specified, but not shown, must be provided.

### 2.1.2.3 Ozone Depleting Substances

Unitary air conditioning equipment must not use CFC-based refrigerants. Refrigerant shall be R-410A or may be an approved alternative refrigerant in accordance with EPA's Significant New Alternative Policy (SNAP) listing.

### 2.1.3 Nameplates



Major equipment including compressors, condensers, receivers, heat exchanges, fans, and motors must have the manufacturer's name, address, type or style, model or serial number, and catalog number on a plate secured to the item of equipment. Plates must be durable and legible throughout equipment life and made of stainless steel. Fix plates in prominent locations with nonferrous screws or bolts.



### 2.1.4 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices. Safety devices must be installed so that proper operation of equipment is not impaired. Welding and cutting safety requirements must be in accordance with AWS Z49.1.

#### 2.2 EQUIPMENT

### 2.2.1 Large-Capacity Split-System Air Conditioners (Greater Than 65,000 Btu/h)

Provide an air-cooled, split system which employs a remote condensing unit, a separate indoor unit, and interconnecting refrigerant piping. Provide the air conditioning type unit conforming to applicable Underwriters Laboratories (UL) standards including UL 1995. Unit must be rated in accordance with ANSI/AHRI 210/240. Provide unit with necessary fans, air filters, and cabinet construction as specified in paragraph UNITARY EQUIPMENT ACCESSORIES. Provide double-width, double inlet, forward curved centrifugal scroll type evaporator or supply fans. Provide the manufacturer's standard for the unit specified and may be centrifugal scroll type condenser or outdoorfans. Enclose fan condenser motors in totally enclosed enclosures and permanently lubricate ball bearings. Air Conditioners must have a minimum energy efficiency ratio (EER) of 12.

### 2.2.1.1 Air-To-Refrigerant Coil

Provide coils with copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Provide casing of galvanized steel. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil testing and prior to evaluation and charging. Provide each unit with a factory operating charge of refrigerant and oil. Field charge unit shipped with a holding charge with refrigerant and oil. Provide separate expansion devices for each compressor circuit. Condenser coil must have special coating for corrosion resistance. Condenser coil must be copper finned. Coat condenser and evaporator coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surface areas without material bridging between fins. Apply coating at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation and be capable of withstanding a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.

#### 2.2.1.2 Refrigeration Circuit

Refrigerant-containing components must comply with ASHRAE 15 & 34 and be factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves and connections, and pumpdown valves foreach circuit.

### 2.2.1.3 Unit Controls

Provide unit internally prewired with a 208 volt control circuit powered by an internal transformer.



Provide terminal blocks for power wiring and external control wiring. Unit must have cutoffs high and low pressure, and low oil pressure for compressors with positive displacement oil pumps, supply fan failure, and safety interlocks on all service panels. Stage multiple compressors by means of a time delay. Internally protect unit by a circuit breaker in accordance with UL 1995.





### 2.2.1.4 Condensing Unit

Fit each remote condenser coil with a manual isolation valve and an access valve on the coil side. Saturated refrigerant condensing temperature must not exceed 120 degrees F at 95 degrees F ambient. Fan and condensermotors must have totally enclosed enclosures.

### 2.2.1.4.1 Air-Cooled Condenser

Provide unit rated in accordance with ANSI/AHRI 460 and conform to the requirements of UL 1995. Provide factoryfabricated, tested, packaged, and self-contained unit. Unit must be complete with casing, propeller or centrifugal type fans, heat rejection coils, connecting piping and wiring, and all necessary appurtenances.

- Provide interconnecting refrigeration piping, electrical power, and control wiring between the condensing unit and the indoor unit as required and as indicated.
   Provide electrical and refrigeration piping terminal connections between condensing unit and evaporator units.
- b. Low ambient control for multi-circuited units serving more than one evaporator coil must provide independent condenser pressure controls for each refrigerant circuit. Set controls to produce a minimum of 95 degrees F saturated refrigerant condensing temperature. Provide unitwith a liquid subcooling circuit that ensures proper liquid refrigerant flow to the expansion device over the specified application range of the condenser. Unit must be provided with manufacturer's standard liquid subcooling. Liquid seal the subcooling circuit.
- c. Coils must have copper tubes of 3/8 inch minimum diameter with copper fins that are mechanically bonded or soldered to the tubes. Protect coil in accordance with paragraph COIL CORROSION PROTECTION. Casing must be galvanized steel or aluminum. Avoid contact of dissimilar metals. Test coils in accordance with ASHRAE 15 & 34 at the factory and ensure suitability for the working pressure of the installed system. Dehydrate and seal each coil after testing and prior to evaluation and charging. Provide each unit with a factory operating charge ofrefrigerant and oil or a holding charge. Field charge unit shipped with a holding charge. Provide separate expansion devices for each compressor circuit.
- d. Provide a complete control system with required accessories for regulating condenser pressure by fan cycling, solid-state variable fan speed, modulating condenser coil or fan dampers, floodingthe condenser, or a combination of the above. Construct unit mounted control panels or enclosures in accordance with applicable requirements of NFPA 70 and house in NEMA ICS 6, Class 1 or 3A enclosures. Controls must include overload protective devices, interface with local and remote components, and intercomponent wiring to terminal block points.

#### 2.2.1.4.2 Compressors



Provide compressor rated in accordance with AHRI 540. Provide direct drive, semi-hermetic or hermetic reciprocating, or scroll type compressor capable of operating at partial load conditions. Compressor must be capable of continuous operation down to the lowest step of unloading as specified. Provide units 120,000 Btuh and larger with capacity reduction devices to produce automatic capacity reduction of at least 50 percent. If standard with the manufacturer, two or more compressors may be used in lieu of a single compressor with unloading capabilities, in which case the compressors operate in sequence, and each compressor must have an independent refrigeration circuit through the condenser and evaporator. Each compressor must start in the unloaded position. Provide each compressor with vibration isolators, crankcase heater, lubrication pump, thermal overloads, and high and low pressure safety cutoffs and protection against short cycling.



#### 2.2.1.5 Filters

Provide filters of the sectional or panel type, capable of filtering the entire air supply. Mount filter(s) integral within the unit and make accessible by hinged access panel(s). Factory supply 2.0 inch, MERV 13, throwaway filters. Filters must have an average dust spot efficiency of 90-95 percent and an average arrestance of 90 percentwhen tested in accordance with ASHRAE 52.2. Provide UL Class 1 filters.

#### 2.4 COMPONENTS

### 2.4.1 Refrigerant and Oil

The air-conditioning system shall use R410A. Refrigerants must have number designations and safety classifications in accordance with ASHRAE 15 & 34. Refrigerants must meet the requirements of AHRI 700 as a minimum. Provide a complete charge of refrigerant for the installed system as recommended by the manufacturer. Lubricating oil must be of a type and grade recommended by the manufacturer for each compressor. Where color leak indicator dye is incorporated, charge must be in accordance with manufacturer's recommendation.

#### 2.4.2 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the cfm required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanized steel. Mill-galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive. Propeller fans must be V-belt drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenanceaccessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields. Vbelt drives mustbe fitted with guards where exposed to contact by personnel and fixed pitch sheaves.

### 2.4.3 Air Filters

Provide filters to filter outside air and return air and locate inside combination air filter mixing box. Provide replaceable (throw-away) high efficiency type. Filters must conform to UL 900, Class 1. Polyurethane filters cannot be used on units with multiframe filters. Air filters must be listed in accordance with requirements of UL 900, except high efficiency particulate air filters of 99.97 percent efficiency by the DOP Test Method must be as listed under the label service and must meet the



### 2.4.3.1 High Efficiency Filters

Additional high efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure drop across





clean filter shall not exceed 1 inches of water gage.

### 2.4.5 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally sized openings, each capable offull air flow. Arrangement must be as indicated.

#### 2.4.6 Cabinet Construction

Casings for the specified unitary equipment must be constructed of galvanized steel with a weather and corrosion resistant enamel finish or aluminum sheet metal and galvanized or aluminum structural members. If cabinet is enamel-finished galvanized steel, the cabinet finish shall be tested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000 hours. Such documentation shall be included in all submittals. Minimum thickness of single wall exterior surfaces must be 18 gauge galvanized steel or 0.071 inch thick aluminum on units with a capacity above 20 tons and 20 gauge galvanized steel or 0.064 inch thick aluminum on units with a capacity less than 20 tons. Casing must be fitted with lifting provisions, access panels or doors, fan vibration isolators, electrical control panel, corrosion-resistant components, structural support members, insulated condensate drip pan and drain, and internal insulation in the cold section of the casing. Where double-wall insulated construction is proposed, minimum exterior galvanized sheet metal thickness must be 20 gauge.

Provisions to permit replacement of major unit components must be incorporated. Penetrations of cabinet surfaces, including the floor, must be sealed. Unit must be fitted with a drain pan which extends under all areas where water may accumulate. Drain pan must be fabricated from Type 300 stainless steel, galvanized steel with protective coating as required, or an approved plastic material. Pan insulation must be water impervious. Extent and effectiveness of the insulation of unit air containment surfaces must prevent, within limits of the specified insulation, heat transfer between the unit exterior and ambient air, heat transfer between the two conditioned airstreams, and condensation on surfaces. Insulation must conform to ASTM C1071.

#### 2.4.6.1 Indoor Cabinet

Indoor cabinets must be suitable for the specified indoor service and enclose all unit components.

#### 2.4.6.2 Outdoor Cabinet

Outdoor cabinets must be suitable for outdoor service with a weathertight, insulated and corrosion-protected structure. Cabinets constructed exclusively for indoor service which have been modified for outdoor service arenot acceptable.

### 2.6 FINISHES

### 2.6.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surfaceareas without material bridging between fins. Submit product data on the type coating selected,



the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable of with standing a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.



### 2.6.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must haveweather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coatingmust show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

### 2.6.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Providea minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

### 2.6.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the first two finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coilsurfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

### 2.6.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
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c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

### 2.6.3 Factory Applied Insulation





Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higher than 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actual construction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

### 2.7 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unit is in compliance with ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - IP have been met.



### DIVISION23-HEATING, VENTILATING, AND AIRCONDITIONING (HVAC)

## (HVAC) SECTION 23 81 29 VARIABLE REFRIGERANTFLOWHVACSYSTEMS

PART 1 GENERAL

#### 1.1 SUMMARY

Provide a complete Air Source, Cooling Only type Variable Refrigerant Flow (VRF) System consisting of one or more outdoor compressor units and multiple indoor fan coil units as specified in this Section and in accordance with the following:

- a. The complete system must be a tested combination in accordance with AHRI 1230.
- b. Provide cooling only control for each zone
- c. For systems which simultaneously heat and cool, the outdoor units must be interconnected to the indoor units through branch selector boxes in accordance with the manufacturer's engineering data detailing each indoor unit. The indoor units and outdoor must be connected to the branch selector boxes utilizing the manufacturer's specified piping joints and headers.

#### 1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

### AIR-CONDITIONING, HEATING AND REFRIGERATION INSTITUTE (AHRI)

AHRI 1230 (2010; Addendum 1 2011; Addendum 2 2014) Performance

Rating of Variable Refrigerant Flow (VRF) Multi-Split Air-

Conditioning and HeatPump Equipment

ANSI/AHRI 270 (2008) Sound Rating of Outdoor Unitary Equipment

ANSI/AHRI 760 (2007) Performance Rating of Solenoid Valves for Use With

**Volatile Refrigerants** 

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ANSI/ASHRAE 15 & 34 (2013) ANSI/ASHRAE Standard 15-Safety Standard for Refrigeration

Systems and ANSI/ASHRAE Standard 34-Designation and

SafetyClassification of Refrigerants

ASHRAE 90.1 - IP (2013) Energy Standard for Buildings Except Low-Rise

Residential Buildings

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### ASTM INTERNATIONAL (ASTM)

**ASTM A307** 

(2014; E 2017) Standard Specification for Carbon Steel Bolts, Studs, and



Threaded Rod 60 000 PSI Tensile Strength

ASTM B117 (2019) Standard Practice for Operating Salt Spray (Fog) Apparatus

ASTM D520 (2000; R 2011) Zinc Dust Pigment

ASTM E84 (2020) Standard Test Method for Surface Burning

Characteristics of Building Materials

ASTM F104 (2011; R 2020) Standard Classification System for Nonmetallic

**GasketMaterials** 

### NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA 250 (2018) Enclosures for Electrical Equipment (1000 Volts Maximum)

NEMA MG 1 (2018) Motors and Generators

NEMA MG 2 (2014) Safety Standard for Construction and Guide for

Selection, Installation and Use of Electric Motors and

Generators

U.S. DEPARTMENT OF ENERGY (DOE)

Energy Star (1992; R 2006) Energy Star Energy Efficiency Labeling System (FEMP)

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR 82 Protection of Stratospheric

Ozone UNDERWRITERS

LABORATORIES (UL)

UL 207 (2009; Reprint Jan 2020)

Refrigerant-Containing Components and Accessories, Nonelectrical

UL 429 (2013; Reprint Jan 2020) Electrically Operated Valves

UL 586 (2009; Reprint Dec 2017) UL Standard for Safety High-

EfficiencyParticulate. Air Filter Units

UL 900 (2015) Standard for Air Filter Units

UL 1995 (2015) UL Standard for Safety Heating and Cooling Equipment

### 1.3 SUBMITTALS

SD-01 Preconstruction Submittals

Verification Of Existing

**Conditions** 



**VRF System Contractor Design** 

**DrawingsSD-03 Product Data** 

**Spare Parts Data** 



Coil Corrosion Protection

Manufacturer's Standard Catalog

DataSample Warranty

Refrigerant SDS

SheetsSD-05 Design Data

Manufacturer's Engineering

DataSD-06 Test Reports

System Performance

**TestsSD-07 Certificates** 

Service

**Organizations** 

Warranty

**Electronic Refrigerant Leak Detector Calibration** 

Ozone Depleting Substances Technician

Certification

SD-08 Manufacturer's Instructions Manufacturer's

Instructions SD-09 Manufacturer's Field Reports

Refrigerant Charging

### 1.4 QUALITY ASSURANCE

Complete VRF systems must be purchased from a single supplier. The VRF system supplier must be responsible for providing a fully functional VRF system.

Prior to purchase of equipment, shop drawings (e.g. equipment layout, plans and elevations, refrigerant piping system plans, etc.) must be approved by the VRF manufacturers representative. Include approval with name and contact information of VRF manufacturer's representative in the submittal.

#### 1.5 QUALITY CONTROL





Provide materials and equipment that are standard products of a manufacturer regularly engaged in the manufacturing of such products, which are of a similar material, design and workmanship. The standard products must have been in satisfactory commercial or industrial use for 3 years immediately prior to the solicitation of this contract. The 3 year use includes applications of equipment and materials under similar circumstances and of similar size. The 3 years' experience must be satisfactorily completed by a product which has been sold on the commercial market through advertisements, manufacturer's catalogs, or brochures. Products must be supported by a service organization. Ensure system components are environmentally suitable for the indicated geographic locations.



### 1.5.2 Manufacturer's Engineering Data

Submit VRF manufacturer's engineering data with the shop drawings under separate cover.

Strike outirrelevant items and options not to be installed.

Provide all input and output reports for all selection procedures required by the manufacturer and as required by this section. Engineering data must include:

- a. Selection Procedures:
  - 1. Indoor and Outdoor Units
  - 2. Branch Selector Units
  - 3. Piping Material and Fittings
  - 4. Réfrigerant Mass for system
  - 5. Refrigerant Classification
- b. System Efficiency Curves/Data including:
  - Efficiency correlated with OAT
  - At least five (5) data points covering full range of operation
  - 3. Minimum and maximum values over the operational range
  - 4. Efficiency at Standard AHRI conditions.

#### 1.5.3 Manufacturer's Instructions

Submit VRF manufacturer's instructions with the shop drawings under separate cover.

Strike outirrelevant items and options not to be installed. Provide with the following:

ovain terms and options not to be installed. Provide with the following:

- a. Installation: Include mechanical, electrical, controls and piping complete installation requirements.
- b. Operation: Include startup, normal operation and shutdown procedures.
- c. Maintenance: Include preventative.

### 1.6 DELIVERY, STORAGE, AND HANDLING

Protect stored items from the weather, humidity and temperature variations, dirt and dust, or other contaminants. Properly protect and care for all material both before and during installation. Submit an inventoryof all the stored items. Replace any materials found to be damaged, at no additional cost to the Government.

During installation, keep piping and similar openings capped to keep out dirt and other foreign matter.

### 1.7 WARRANTY

Provide VRF manufactured equipment with the Manufacturer's Standard Warranty in addition to the Warranty of Construction. Submit Sample Warranty prior to construction. Compare warranty requirements with the requirements of this contract and identify discrepancies in the submittal that would prevent coverage of warrantyby the manufacturer.



All products used to meet this specification must meet the indicated requirements, but not all products specified here will be required by every project.



#### 2.1 MATERIALS

Provide Manufacturer's standard catalog data, at least 5 weeks prior to the purchase or installation of a particular component, highlighted to show material, size, options, performance charts and curves, in adequate detail to demonstrate compliance with contract requirements. If field installed vibration isolation is specified for a unit, include vibration isolator literature containing catalog cuts and certification that the isolation characteristics of the isolators provided meet the manufacturer's recommendations. Submit data for each specified component.

Minimum efficiency requirements must be in accordance with ASHRAE 90.1 - IP.

### 2.1.1 Performance Requirements

Provide energy efficiency curve and data of EFFICIENCY vs. OAT. Provide at least five data points over the full range of operation capturing the minimums and maximums.

### 2.1.1.1 Variable Refrigerant Flow Multi-Split Air Conditioners

Information on Energy Star requirements can be found at <a href="https://www.energystar.gov/products/heating-cooling/light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-commercial-heating-cooling-light-

### 2.1.1.2 Electrical Equipment / Motors

Electrical motor driven equipment specified must be provided complete with motors, motor starters, and controls. Electrical characteristics must be as shown, and unless otherwise indicated and field wiring must be in accordance with manufacturer's instructions. All motor(s):

- a. 1 horsepower and above must be the premium efficiency type in accordance with NEMA MG 1.
- b. Conform to NEMA MG 1 and NEMA MG 2 and be of sufficient size to drive the equipment at the specified capacity without exceeding the nameplate rating.
- c. Continuous duty with the enclosure specified.
- d. Starters must be provided complete with thermal overload protection and other appurtenancesnecessary for the motor control indicated.
- e. Furnished with a magnetic across-the-line or reduced voltage type starter as required by themanufacturer.
- f. Duty requirements must allow for maximum frequency start-stop operation and minimum encountered interval between start and stop.
- g. Must be sized for all applicable loads.
- h. Bearings with grease supply fittings must have grease relief to outside of enclosure.



1. Automatic control and protective or signal devices required for the operation specified and anycontrol wiring required for controls and devices specified, but not shown, must be provided.



### 2.1.1.3 Refrigerant

The air-conditioning system shall use R410A.

### 2.1.2 Safety Devices

Exposed moving parts, parts that produce high operating temperature, parts which may be electrically energized, and parts that may be a hazard to operating personnel must be insulated, fully enclosed, guarded, or fitted with other types of safety devices.

#### 2.2.1 Zone Control

Provide a Space Sensor Module for each fan coil unit unless otherwise indicated in contract drawings and with the following additional requirements:

- a. Displays the current temperature, temperature setpoint, fans status, occupancy status and conditioning mode at the same time. If information is displayed electronically then it must be illuminated.
- b. Temperature setpoint adjustment in one degree increments.
- c. Fans speed control (At least: High-low-Auto).
- d. Occupancy override button which changes the mode of the zone to occupied for one hour perpress of occupancy override button with 8 hours maximum at any instance.

#### 2.3 INDOOR FAN COIL

#### UNITSProvide with the

### following:

- a. Factory complete, tested and pre-wired with all necessary electronic and refrigerant controls.
- b. Equipped with auto-restart function and test run capability either via a switch or controller.
- c. Refrigerant: Refrigerant circuits factory-charged with dehydrated inert gas.
- d. Coils: Direct expansion type constructed from copper, aluminum, or copper and aluminum.
- e. Fans: Direct-drive, with statically and dynamically balanced impellers; variable speed ECM unlessotherwise indicated; motor thermally protected.





- f. Return Air Filter: Washable long-life net filter with mildew proof resin, or replaceable, unlessotherwise indicated.
- g. Condensate Drainage: Built-in condensate drain pan with drain connection.
- h. Dedicated electronic modulating refrigerant expansion and flow control.



- i. Unit must be in accordance with UL 1995 and AHRI 1230.
- j. For units with Built-In Condensate Pumps, provide condensate safety shutoff and alarm. For units without Built-In Condensate Pump, provide built in or field supplied overflow protection.

### 2.3.1 Concealed-In-Ceiling

### Units Provide with the following:

- Ducted horizontal discharge and return; galvanized steel cabinet in accordance with Section 23 30 00 HVAC AIR DISTRIBUTION.
- b. Field adjustable external static pressure switch for high efficiency filter operation.
- c. Switch box accessible from side or bottom.

### 2.3.2 Recessed Ceiling

#### UnitsProvide with the

### following:

- a. Four-way airflow cassette with central return air grille, for installation in a fixed ceiling, unless otherwise indicated.
- b. Exposed Housing: White, impact resistant, with washable decoration panel.
- c. Supply Airflow Adjustment:
  - (1) Via motorized louvers which can be horizontally and vertically adjusted from 0 to 90 degrees.
  - (2) Field-modifiable to 3-way and 2-way airflow.

### 2.3.3 Wall Surface-Mounted

### UnitsProvide with the following:

- a. Finished white casing, with removable front grille; sound insulation; wall mounting plate; condensate drain pan.
- b. Airflow Control: Auto-swing louver that closes automatically when unit stops; adjustable discharge angle, set using remote controller; upon restart, discharge angle defaulting to same angle as previous operation.
- c. Fan: Direct-drive cross-flow type.





d. Condensate Drain Connection: Side (end), not concealed in wall.

### 2.4 **OUTDOOR** COMPRESSOR

UNITProvide with the

following:





- a. The outdoor unit must have one or more variable capacity compressors or alternative method resulting in three or more steps of capacity needed to load match the indoor unit fan coils at alltimes.
- b. The unit must be factory complete, tested and pre-wired with all necessary electronic andrefrigerant controls.
- c. The sound pressure dB(A) at rated conditions must be a value of 58 decibels at 3 feet from the front of the unit when rated in accordance with ANSI/AHRI 270.
- d. The unit must automatically restart normal operation after a power failure of any duration without reprogramming or manual assistance.
- e. Oil recovery cycle must be automatic occurring a minimum of 2 hours after start of operation and then at least every 8 hours of operation.
- f. Each outdoor unit must have it's own dedicated power feed, each with disconnect and mainpower circuit breaker.
- g. The unit must be in compliance with ANSI/ASHRAE 15 & 34, factory tested, cleaned, dehydrated, charged, and sealed. Provide refrigerant charging valves. Filter-drier must be provided in liquid line.
- h. The outdoor units capacity must meet or exceed the scheduled value in the contract drawings. The ratio of the outdoor unit capacity to the total connected indoor capacity must be in accordance with the manufacturer's recommendations for selecting the outdoor unit.
- i. Unit must be in accordance with UL 1995 and AHRI 1230.

#### 2.4.1 Air-Cooled

The unit must must have full design cooling capacity at 95 degrees F dry bulb ambient.

#### 2.4.2 Casing

Construct the unit of zinc coated, heavy-gage (14-gage minimum) galvanized steel. The cabinet finish shall betested in accordance with ASTM B-117 salt spray surface scratch test (SST) procedure for a minimum of 1000hours. Such documentation shall be included in all submittals. Provide cabinet panels with lifting handles andwater- and air-tight seal. Insulate all exposed vertical panels, top covers and base pan.

### 2.4.3 Compressor

Each compressor system must have the following:

a. High pressure safety switch, and internal thermal overload protection.



- b. Factory installed vibration dampeners on all mounting points.
- c. Factory installed crank case heater or other control logic to ensure reliable operation in freezing environments.
- d. Oil separator with an oil balance circuit.



#### 2.5 COMPONENTS

### 2.5.1 Fans

Fan wheel shafts must be supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Unit fans must be selected to produce the flow rate required at the fan total pressure. Motor starters, if applicable, must be magnetic across-the-line type with a totally enclosed enclosure. Thermal overload protection must be of the manual or automatic-reset type. Fan wheels or propellers must be constructed of aluminum or galvanized steel. Centrifugal fan wheel housings must be of galvanized steel, and both centrifugal and propeller fan casings must be constructed of aluminum or galvanized steel. Steel elements of fans, except fan shafts, must be hot-dipped galvanized after fabrication or fabricated of mill galvanizedsteel. Mill-galvanized steel surfaces and edges damaged or cut during fabrication by forming, punching, drilling, welding, or cutting must be recoated with an approved zinc-rich compound. Fan wheels or propellers must be statically and dynamically balanced. Direct-drive fan motors must be of the multiple-speed variety. Belt-driven fans must have adjustable sheaves. The sheave size must be selected so that the fan speed at the approximate midpoint of the sheave adjustment will produce the specified air quantity. Centrifugal scroll-type fans must be provided with streamlined orifice inlet and V-belt drive. Each drive will be independent of any other drive.

Propeller fans must be direct-drive type with fixed pitch blades. V-belt driven fans must be mounted on a corrosion protected drive shaft supported by either maintenance-accessible lubricated antifriction block-type bearings, or permanently lubricated ball bearings. Each drive will be independent of any other drive. Drive bearings must be protected with water slingers or shields.

V-belt drives must be fitted with guards where exposed to contact by personnel and fixed pitch sheaves. Axial fans may not be used to distribute air through duct systems.

### 2.5.2 Air Filters

High efficiency particulate air (HEPA) filters shall be provided. Filters must have a MERV of 17 when tested in accordance with ASHRAE 52.2. Filter assembly must include; holding frame and fastener assembly, filter cartridge, mounting frame, and retainer assembly. Reinforce filter media with glass fiber mat. Pressure dropacross clean filter shall not exceed 1 inches of water gage.

### 2.5.3 Internal Dampers

Dampers must be parallel blade type with renewable blade seals and be integral to the unitary unit.

Damper provisions must be provided for each outside air intake, exhaust, economizer, and mixing boxes.

Dampers musthave manual modulation and operate as specified.

### 2.5.4 Mixing Boxes

Mixing boxes must match the base unit in physical size and must include equally-sized openings, each capable offull air flow. Arrangement must be as indicated.

### 2.5.5 Refrigerant Solenoid Valves

Solenoid valves must comply with ANSI/AHRI 760 and UL 429, be suitable for continuous duty rated voltage at maximum and minimum encountered pressure and temperature service conditions. Solenoid



valves must be direct-acting or pilot-operating type, packless, seal capped. Manual lifting provisions must be furnished. Solenoid coils must comply with NEMA 250 type 4.

Valves must have safe working pressure of 125 percent of maximum working pressure and a maximum operating pressure differential of at least half of the valve maximum working pressure at 85 percent rated voltage. Valves must have an operating pressure differential suitable for the fluid phase and refrigerant used.



#### 2.5.6 Branch Selector Unit

Branch Selector port control must be provided for each connected indoor unit to enable individual heating and cooling selection year round unless otherwise indicated in the contract drawings. The cabinet must be galvanized steel. The branch selector units must be factory assembled, wired, piped and run tested.

# 2.6 EQUIPMENT ACCESSORIES AND MISCELLANEOUS EQUIPMENT

# 2.6.1 Refrigerant Leak Detector

Provide continuously-operating, halogen-specific type refrigerant leak detector. Detector must be appropriate for the refrigerant in use.

Detector must be specifically designed for area monitoring and must include a single sampling point installed where indicated. Detector design and construction must be compatible with the temperature, humidity, barometric pressure and voltage fluctuations of the operating area. Detector must have an adjustable sensitivity such that it can detect refrigerant at or above 3 parts per million (ppm). Detector must be supplied factory- calibrated for the appropriate refrigerant(s). Detector must be provided with an alarm relay output which energizes when the detector detects a refrigerant level at or above the TLV-TWA (or toxicity measurement consistent therewith) for the refrigerant in use. The detector's relay must be capable of initiating corresponding alarms and ventilation system as indicated on the drawings. Detector must be provided with a failure relay output that energizes when the monitor detects a fault in its operation.

# 2.6.2 Refrigerant Signs

Refrigerant signs must be a medium-weight aluminum type with a baked enamel finish. Signs must be suitable forindoor or outdoor service. Signs must have a white background with red letters not less than 0.5 inches in height.

### 2.6.2.1 Installation Identification

Provide each new refrigeration system with a refrigerant sign which indicates the following as a minimum:

- a. Contractor's name.
- b. Refrigerant number and amount of refrigerant.
- c. The lubricant identity and amount.
- d. Field test pressure applied.

### 2.6.2.2 Controls and Piping Identification

Provide refrigerant systems containing more than 110 lb of refrigerant with refrigerant signs which designate thefollowing as a minimum:

Valves or switches for controlling the refrigerant flow and the refrigerant compressor.

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b. Pressure limiting device(s).

# 2.6.3 Gaskets



Provide gaskets conforming to ASTM F104 - classification for compressed sheet with nitrile binder and acrylic fibersfor maximum 700 degrees F service.

## 2.6.4 Bolts and Nuts

Bolts and nuts must be in accordance with ASTM A307. The bolt head must be marked to identify the manufacturer and the standard with which the bolt complies in accordance with ASTM A307.

#### 2.7 FINISHES

#### 2.7.1 Coil Corrosion Protection

Provide coil with a uniformly applied epoxy electrodeposition, phenolic, or vinyl type coating to all coil surfaceareas without material bridging between fins. Submit product data on the type coating selected, the coating thickness, the application process used, the estimated heat transfer loss of the coil, and verification of conformance with the salt spray test requirement. Coating must be applied at either the coil or coating manufacturer's factory. Coating process must ensure complete coil encapsulation. Coating must be capable of with standing a minimum 1,000 hours exposure to the salt spray test specified in ASTM B117 using a 5 percent sodium chloride solution.

# 2.7.2 Equipment and Components Factory Coating

Unless otherwise specified, equipment and component items, when fabricated from ferrous metal, must be factory finished with the manufacturer's standard finish, except that items located outside of buildings must haveweather resistant finishes that will withstand 500 hours exposure to the salt spray test specified in ASTM B117. Immediately after completion of the test, the specimen must show no signs of blistering, wrinkling, cracking, or loss of adhesion and no sign of rust creepage beyond 1/8 inch on either side of the scratch mark. Cut edges of galvanized surfaces where hot-dip galvanized sheet steel is used must be coated with a zinc-rich coating conforming to ASTM D520, Type I.

Where stipulated in equipment specifications of this section, coat finned tube coils of the affected equipment as specified below. Apply coating at the premises of a company specializing in such work. Degrease and prepare for coating in accordance with the coating applicator's procedures for the type of metals involved. Completed coating must show no evidence of softening, blistering, cracking, crazing, flaking, loss of adhesion, or "bridging" between the fins.

#### 2.7.2.1 Phenolic Coating

Provide a resin base thermosetting phenolic coating. Apply coating by immersion dipping of the entire coil. Provide a minimum of two coats. Bake or heat dry coils following immersions. After final immersion and prior to final baking, spray entire coil with particular emphasis given to building up coating on sheared edges. Total dry film thickness must be 2.5 to 3.0 mils.

# 2.7.2.2 Chemical Conversion Coating with Polyelastomer Finish Coat

Dip coils in a chemical conversion solution to molecularly deposit a corrosion resistant coating by electrolysis action. Cure conversion coating at a temperature of 110 to 140 degrees F for a



minimum of 3 hours. Coat coil surfaces with a complex polymer primer with a dry film thickness of 1 mil. Cure primer coat for a minimum of 1 hour. Using dip tank method, provide three coats of a complex polyelastomer finish coat. After each of the first two finish coats, cure the coils for 1 hour. Following the third coat, spray a fog coat of an inert sealer on the coil surfaces. Total dry film thickness must be 2.5 to 3.0 mils. Cure finish coat for a minimum of 3 hours. Coating



materials must have 300 percent flexibility, operate in temperatures of minus 50 to plus 220 degrees F, and protect against atmospheres of a pH range of 1 to 14.

# 2.7.2.3 Vinyl Coating

Apply coating using an airless fog nozzle. For each coat, make at least two passes with the nozzle. Materials to be applied are as follows:

- a. Total dry film thickness, 6.5 mils maximum
- b. Vinyl Primer, 24 percent solids by volume: One coat 2 mils thick
- c. Vinyl Copolymer, 30 percent solids by volume: One coat 4.5 mils thick

## 2.7.3 Factory Applied Insulation

Refrigeration equipment must be provided with factory installed insulation on surfaces subject to sweating including the suction line piping. Where motors are the gas-cooled type, factory installed insulation must be provided on the cold-gas inlet connection to the motor in accordance with manufacturer's standard practice. Factory insulated items installed outdoors are not required to be fire-rated. As a minimum, factory insulated items installed indoors must have a flame spread index no higher than 75 and a smoke developed index no higher than 150. Factory insulated items (no jacket) installed indoors and which are located in air plenums, in ceiling spaces, and in attic spaces must have a flame spread index no higher than 25 and a smoke developed index no higher than 50. Flame spread and smoke developed indexes must be determined by ASTM E84.

Insulation must be tested in the same density and installed thickness as the material to be used in the actual construction. Material supplied by a manufacturer with a jacket must be tested as a composite material.

Jackets, facings, and adhesives must have a flame spread index no higher than 25 and a smoke developed index no higher than 50 when tested in accordance with ASTM E84.

## 2.8 TESTS, INSPECTIONS, AND VERIFICATIONS

All manufactured units must be inspected and tested, and documentation provided to demonstrate that each unitis in compliance with applicable ANSI/AHRI and UL requirements and that the minimum efficiency requirements of ASHRAE 90.1 - SI ASHRAE 90.1 - IP have been met.

Dunham Bush Equipment Listing for UOG Bid No. B21-17

LOCATION/NAME	QUANTITY	TON	VOLTAGE	CIRCUIT	Model	PRICE
RFK 2nd Floor	1	50	208	dual	ACCS700	\$74,837.72
RFK 1st Floor	1	40	208	dual	ACCS570	\$59,870.18
RFK Main Entrance	1	15	208	single	ACCS220	\$22,451.32
RFK AV Room	1	15	208	single	ACCS220	\$22,451.32
RFK Offices	1	20	208	single	ACCS290	\$29,935.09
PIP 2nd Floor	1	20	460	dual	ACCS290	\$29,935.09
Science 1st floor	1	40	208	dual	ACCS570	\$59,870.18
Science 2nd floor	1	40	208	dual	ACCS570	\$59,870.18
Science 3rd floor	1	20	208	dual	ACCS290	\$29,935.09
English Com.	1	30	208	dual	ACCS435	\$44,902.64
Comp. Center OIT	1	50	460	dual	ACCS700	\$74,837.73
Lecture Hall	1	20	460	dual	ACCS290	\$29,935.09
HSS Building 1	2	50	460	dual	ACCS700	\$74,837.73
HSS Building 2	1	30	460	dual	ACCS435	\$44,902.64

TOTALS \$658,572.00

# **TECHNICAL REPORT**



Project name	OOG condensers					
Submitted by	Leo		Date 11/22/2021			
Customer	JWS		Quantity 1			
OVERVIEW	<b>发展</b> (1)					
System Type	Air-Cooled Split	Refrigerant	R410A			
Series	ACCS	Power supply	208V/3/60HZ			
Unit nomenclature	6ACC\$220-QG + 6HEB220D-QG					
Altitude	0 ft	Approval				
FILTER						
Туре	Filter 1" 70% Eff					
Size (Qty)	25x20x1(1), 25x25x1(2)					
DX CÓOLÍNG COIL						
Туре	Ø3/8	Number of coil	1			
Rows	3	Face area	13.22 ft²			
Fins per inch	12	Face velocity	408 ft/min			
Refrigerant	R410A	Entering air (DB)	80 °F			
Capacity (Total)	190397 Btu/ł		67 °F			
Capacity (Sensible)	134438 Btu/i		56.8 °F			
Air pressure drop	0.3 inH20		55.4 °F			
COMPRESSOR (OR EQUIVALEN						
Compressor			ZP182			
Туре	Scroll, Fixed Speed	Quantity	1			
Total LRA	340.0 A	Total Power	15.7 kW			
		Total Amps	51 A			
FAN (EVAPORATOR)						
Туре	Belt Driven	Model	15/15			
Air Flow	5400 CFM	Fan Speed	772 RPM			
External Static Pressure	0.5 inH20		1.6 kW			
Total Static Pressure	1.2 inH20		3 HP			
Quantity	1	FLA	10.3 A			
		Locked rotor current (LRA)	64 A			
CONDENSER (AIR COOLED)		COURT TO CONTROL OF THE CENTAL	THE PARTY OF THE P			
Model	Ø3/8	Motor HP (each)	1 HP			
Quantity	1	FLA (each)	2.9 A			
Condenser Fan Motor	26" (660MM)	Ambient Temperature	95 °F			
Quantity	2	Ambient remperature	33  F			
ELECTRICAL SUMMARY		NA MARKET WERE STORY				
Unit FLA	67.1 A	MCA	79.9 A			
Total Power Input	18.89 kW	MFS	150 A			
EER	10.08	IEER	n/a			
ORTIONS.			iyaj			
DESCRIPTION	The state of the s					
SV: Suction/Discharge/Liquid I	Line Service Valves					
CU-C: Condenser Coil Fin Mate						
CG: Condenser Coil Guard	-1-1					
DOL2: IEC DOL (Non UL)						
MII: Door Interlock Main Incor	ming Isolator	The state of the s				
PFR: UVR/Phase Failure Protect						
IR33: Controller - IR33	· · · · · · · · · · · · · · · · · · ·					
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#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

#### 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

#### 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# **OPTIONS**

#### 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

## 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- Hydrophilic coated aluminium fin
- Copper Fin
- · Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

# 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

#### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

#### 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

#### 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

#### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

# **DB**

## **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, anti-recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator

### (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

# 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect

#### (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

# 22. Unit Controller (IEC DOL must be selected)

# (Model 108 and above)

# (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

(B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

# (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- · Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status

#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

## (Micro-Vision or Vision must be selected)

(Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

#### 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

# Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### **Voltmeter (IEC DOL must be selected)**

Voltmeter and selector switch provided for voltage display (model 108 and above).

#### 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

#### (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

## 30. Compressor Soft Starter

### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stq / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

#### (IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

# 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

#### 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

# 37. Dirty Filter Relay & Indication Light

(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

#### 38. High and Low Pressure Switches (Adjustable)

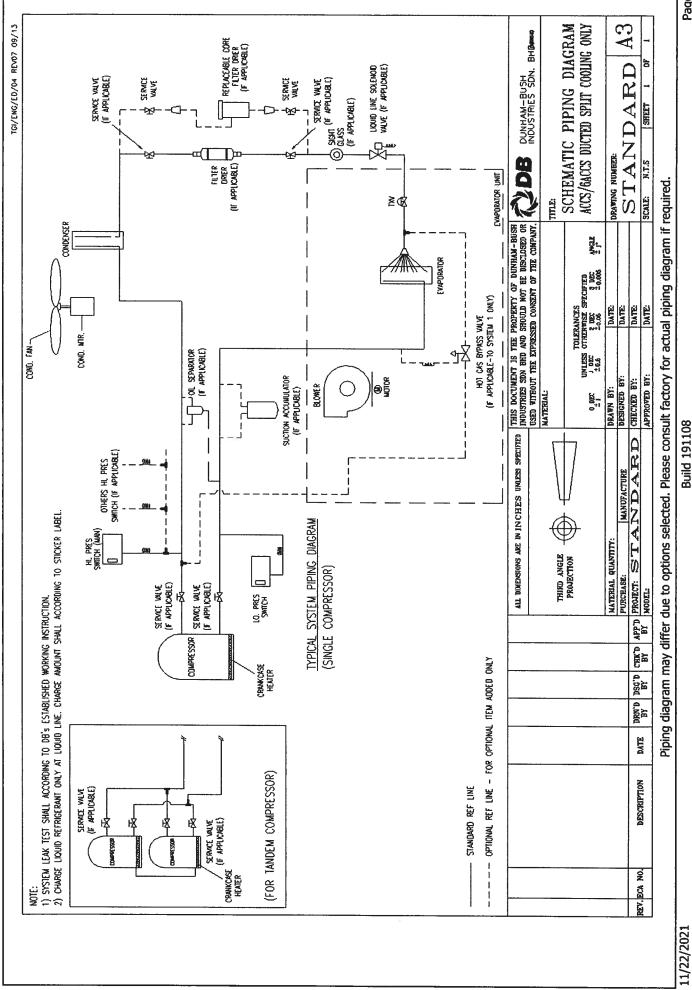
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.

**Build 191108** 

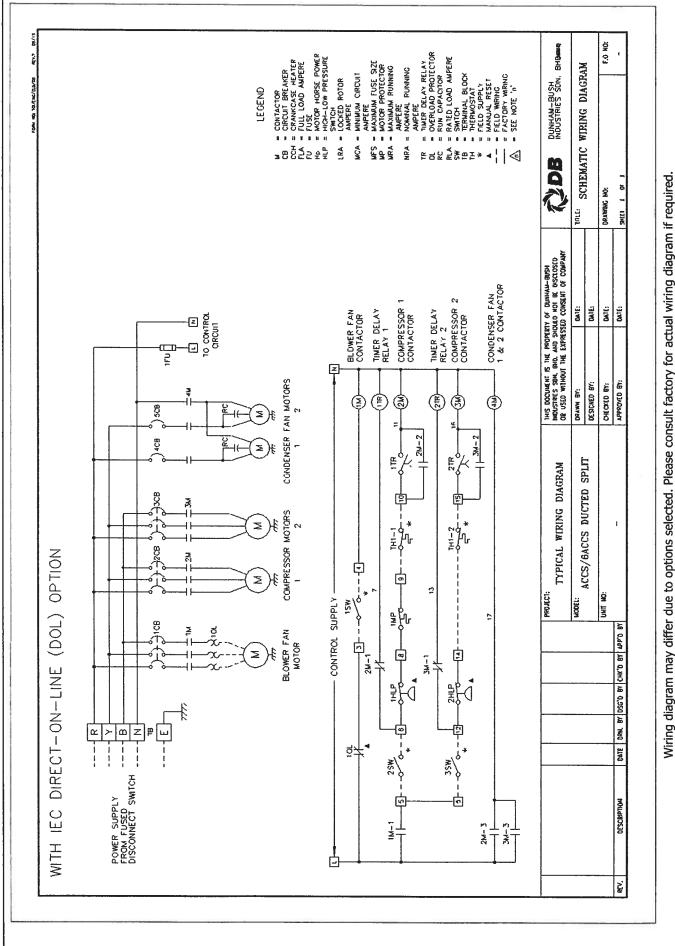
11/22/2021

ACCS220

DRAWING

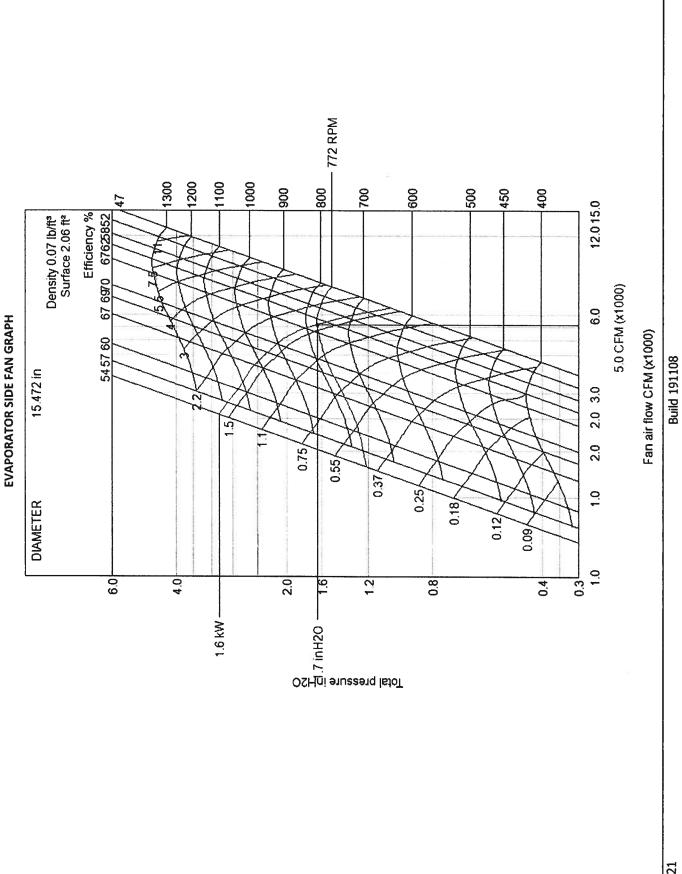


Build 191108



11/22/2021





FANS GRAPHS ACCS220

# **TECHNICAL REPORT**



Project name	OOG condensers				
Submitted by	Leo			Date	11/22/2021
Customer	JWS			Quantity	1
<b>OVERVIEW</b>					
System Type	Air-Cooled Split		Refrigerant	R410	
Series	ACCS		Power supply		/3/60HZ
Unit nomenclature	6ACCS290-QG + 6EB290D-	QG			, <u> </u>
Altitude		ft	Approval		
FILTER			\$7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Туре	Filter 1" 70% Eff				***************************************
Size (Qty)	25x16x1(3), 25x20x1(3)				
DX COOLING COIL			77.1		
Type	Ø3/8	22 4.2.10 (A. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	Number of coil		1
Rows	3		Face area		16.53 ft²
Fins per inch	12		Face velocity		454 ft/min
Refrigerant	R410A		Entering air (DB)		80 °F
Capacity (Total)	253522	Rtu/h	Entering air (WB)		67 °F
Capacity (Sensible)	181867		Leaving air (DB)		57.4 °F
Air pressure drop		inH2O	Leaving air (WB)		55.9 °F
COMPRESSOR (OR EQUIVALENT			Leaving air (VVD)		33.9 F
Compressor		754. and 350	<u> </u>		2 X ZP122
Туре	Scroll, Fixed Speed		Quantity		2 X 2 P 1 2 2
Total LRA	280.0	Λ	Total Power		22.5 kW
Total ENA	280.0	<u> </u>			
FAN (EVAPORATOR)			Total Amps	Desway Contract of the State	34.3 A
Type	Belt Driven	<b>州</b> 井 正是特	Model	ESPACIAL CONTRACTOR	
Air Flow	7500	CERA	Fan Speed	-	18/13 693 RPM
External Static Pressure		inH2O	Absorbed Power		
Total Static Pressure		inH2O	<del> </del>		2.9 kW
Quantity	1.5	IIITZU	Motor Horsepower FLA		5.5 HP
Quartity	1				8.2 A
CONDENSER (AIR COOLED)			Locked rotor current (LRA)	**************************************	50.5 A
Model		10.450.000			
Quantity	Ø3/8		Motor HP (each) FLA (each)		1 HP
Condenser Fan Motor	<del></del>				1.6 A
Quantity	26" (660MM)		Ambient Temperature		95 °F
ELECTRICAL SUMMARY	2	(450 <i>40</i> 0675			
Unit FLA	45.7	and the same state			
Total Power Input	27.04		MCA MFS		50 A 70 A
EER .	9.38	K VV	· · · · · · · · · · · · · · · · · · ·		
OPTIONS		SLOTE A LIVER ON	IEER		n/a
DESCRIPTION		THE SECTION AND ADDRESS.	grammatic and the second of th		
SV: Suction/Discharge/Liquid Lin	an Sarvice Valves				
CU-C: Condenser Coil Fin Materi					
CG: Condenser Coil Guard	ais - copper			<del>_</del> .	
DOL2: IEC DOL (Non UL)					
	ng Icolatas				
MII: Door Interlock Main Incomis	ilg isolator		<del></del> -		
PFR: UVR/Phase Failure Protect					
1033, Controllar 1033					
IR33: Controller - IR33 NÖTES	Maria Ma				One of the latest and



#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

## 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

#### 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# **OPTIONS**

#### Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

#### 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

# 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

#### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

## 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

#### 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

#### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

# **DB**

### **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, anti-recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 380-415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator

#### (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

#### 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect

#### (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

### 22. Unit Controller (IEC DOL must be selected)

#### (Model 108 and above)

## (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

#### (B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- · Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status



#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

# (Micro-Vision or Vision must be selected)

#### (Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

## 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

# 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

#### 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

#### (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

#### 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring

current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

#### (IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

# 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

## 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

#### 37. Dirty Filter Relay & Indication Light

(IEC DOL must be selected)

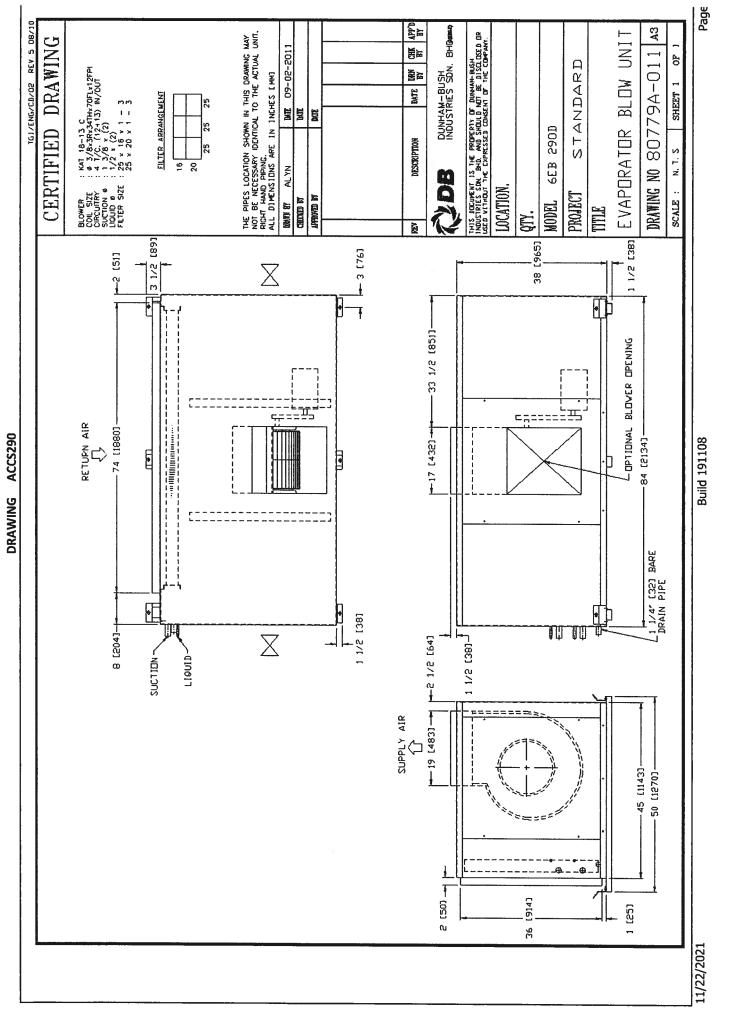
Indication on filter status shall be provided as maintenance reminder

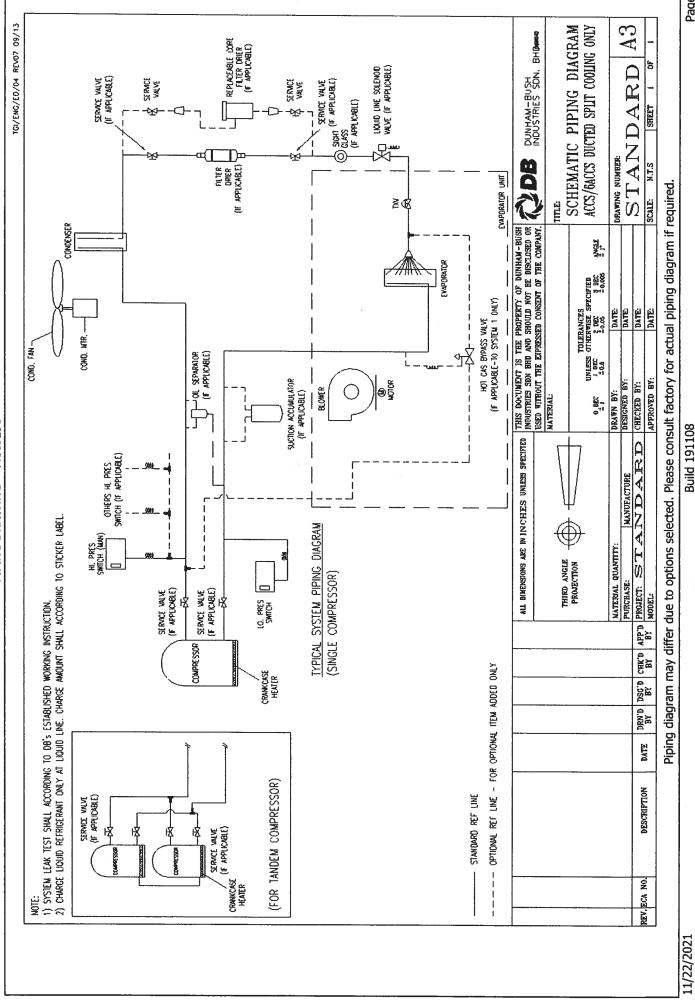
### 38. High and Low Pressure Switches (Adjustable)

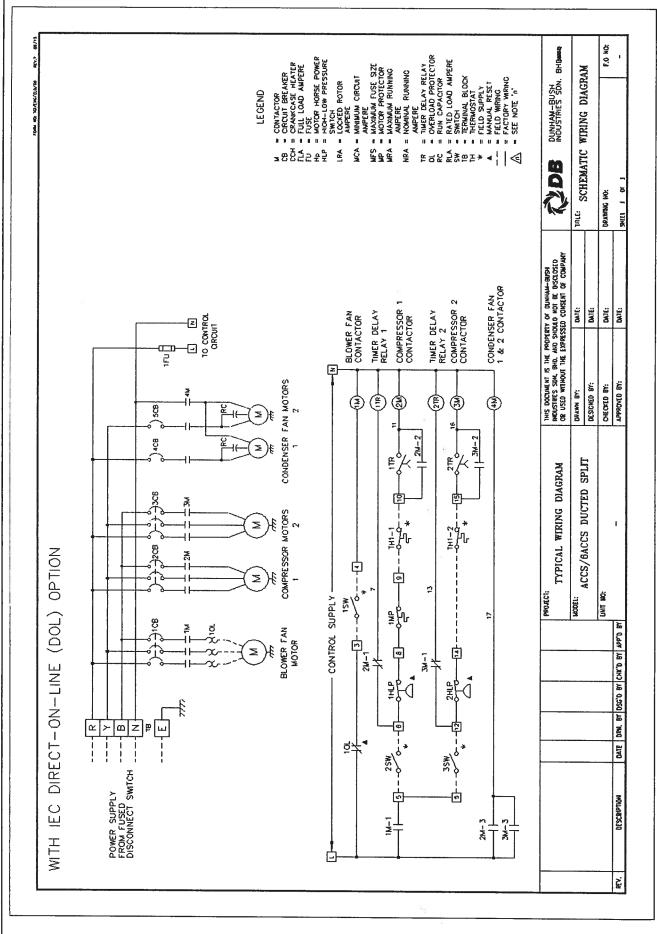
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.

Build 191108

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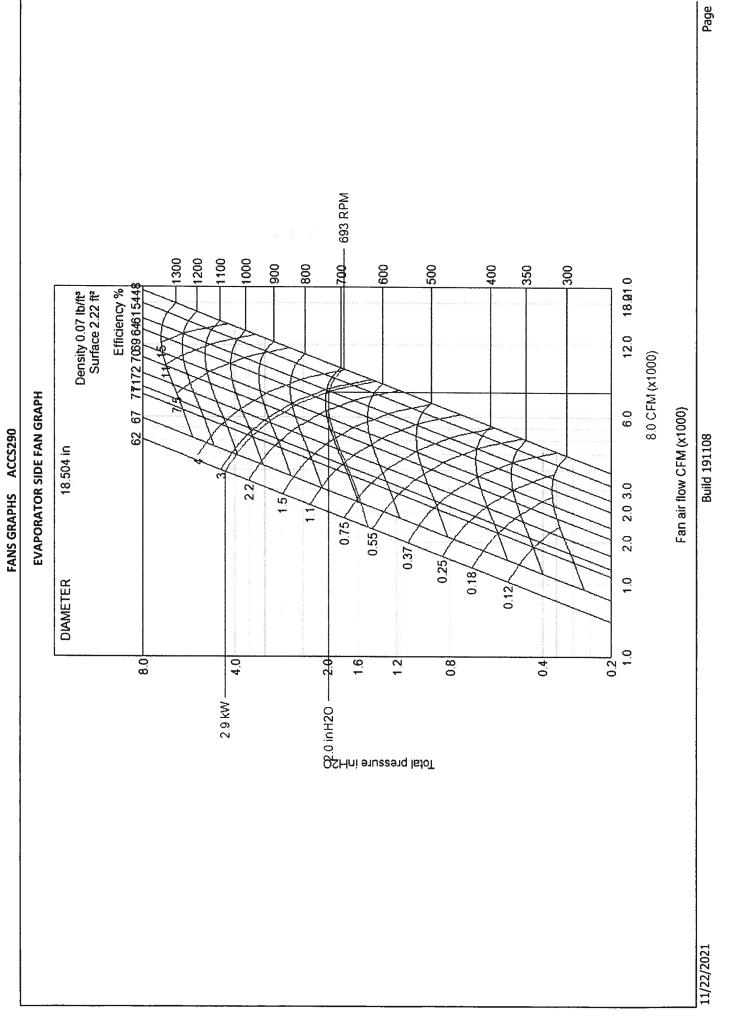






Wiring diagram may differ due to options selected. Please consult factory for actual wiring diagram if required Build 191108

11/22/2021



# **TECHNICAL REPORT**



Project name	OOG condensers		-					
Submitted by	Leo			Date		11/22/2	024	
Customer	JWS			Quanti	de a	11/22/20	021	
OVERVIEW	1000		ACTA STRUMENTS	Quanti	LY Section 1	1.		
System Type	Air-Cooled Split		Refrigerant		R410A			
Series	ACCS		Power supply		208V/3/60HZ			
Unit nomenclature	6ACC\$290-QG + 6EB290D	06	rowei supply	2U8V/3/6UHZ				
Altitude		ft	Approvai	Ţ-				
FILTER	10		ПАРРІОЧАІ					
Туре	Filter 1" 70% Eff	CORPUGEDARIA	<u> </u>					
Size (Qty)	25x16x1(3), 25x20x1(3)							
DX COOLING COIL	[25X10X1(5), 25X20X1(5)				t Carrie State			
Туре	Ø3/8	A SECURIOR MADE	Number of coil		- 18 A	1		
Rows	3		Face area			16.53		
Fins per inch	12		Face velocity	-			ft/min	
Refrigerant	R410A		Entering air (DB)			80		
Capacity (Total)	249769	Rtu/h	Entering air (WB)	-				
Capacity (Yotal)	180502	<del></del>	Leaving air (DB)			67		
Air pressure drop		inH2O	Leaving air (WB)	+		57.6		
COMPRESSOR (OR EQUIVALENT MOI		IIIAZO	Leaving air (VVD)		10,200	56.1	F	
Compressor	7EC)		<u> </u>			2 1/ 20400		
Type	Scroll, Fixed Speed		Quantity	1		2 X ZP122		
Total LRA	480.0	A	Total Power	-		2		
TOTAL LINA	480.0	Α		-		22.9		
FAN (EVAPORATOR)	7	WALK STORY	Total Amps	02.00004.27450	77 400 (2000)	63.7	Α	
Type	r	33000000	Indeed of the second of the se		- 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1			
Air Flow	Belt Driven 7500	CENA	Model			18/13		
External Static Pressure		inH2O	Fan Speed				RPM	
Total Static Pressure			Absorbed Power				kW	
		inH2O_	Motor Horsepower			5.5		
Quantity	1		FLA (184)	_		18.1		
CONDENSER (AIR COOLED)			Locked rotor current (LRA)	Joos Charles	Terreson de la companya de la compa	112	Α	
Model								
Quantity	Ø3/8		Motor HP (each)	-			HP	
Condenser Fan Motor	26" (660)494)		FLA (each)			2.9		
Quantity	26" (660MM)		Ambient Temperature			95	l°F	
ELECTRICAL SUMMARY.	2				relation of the last of	The same of the sa	colabylokiu, disu	
Unit FLA	87.6	ALLEGA AND SECURE		- 604				
Total Power Input	27.3		MCA			95.5		
		KVV	MFS			150	Α	
OPTIONS ***	9.15	S42 74 84 15	IEER		Profession Com	n/a	(2) 200 (100 (100 (100 (100 (100 (100 (100	
DESCRIPTION					1000			
	rice Values							
SV: Suction/Discharge/Liquid Line Sen CU-C: Condenser Coil Fin Materials - C								
	opper							
SSD: Stainless Steel Drain Pan								
CG: Condenser Coil Guard								
DOL2: IEC DOL (Non UL)								
MII: Door Interlock Main Incoming Isolator								
PFR: UVR/Phase Failure Protect								
IR33: Controller - IR33		CONTRACTOR AND						
NOTES			And the second s			EV.		
Manufacturer reserves the right to change	specifications without prior no	otice.				78		



#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

#### 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

#### 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# OPTIONS

#### 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

#### 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- · Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

# 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement,

### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

### 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

# 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

# **DB**

#### Air-Cooled Split

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, anti-recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

## 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect

## (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

#### 22. Unit Controller (IEC DOL must be selected)

## (Model 108 and above)

#### (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

# (B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- Temperature and humidity controlled
- Configurable by user
- · Alarm status/display
- Analog input/output display
- Digital input/output status

#### **Air-Cooled Split**

#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

# (Micro-Vision or Vision must be selected)

(Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

#### 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

# 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

#### 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

### (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

# 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

# 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

## 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

#### (IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

#### 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

# 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

# 37. Dirty Filter Relay & Indication Light

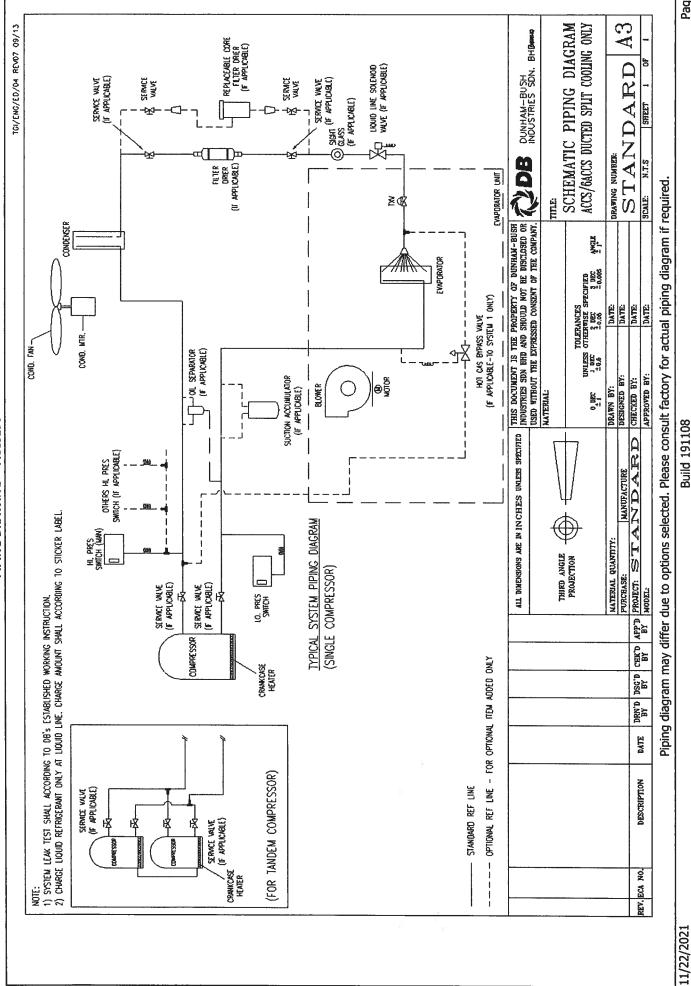
(IEC DOL must be selected)

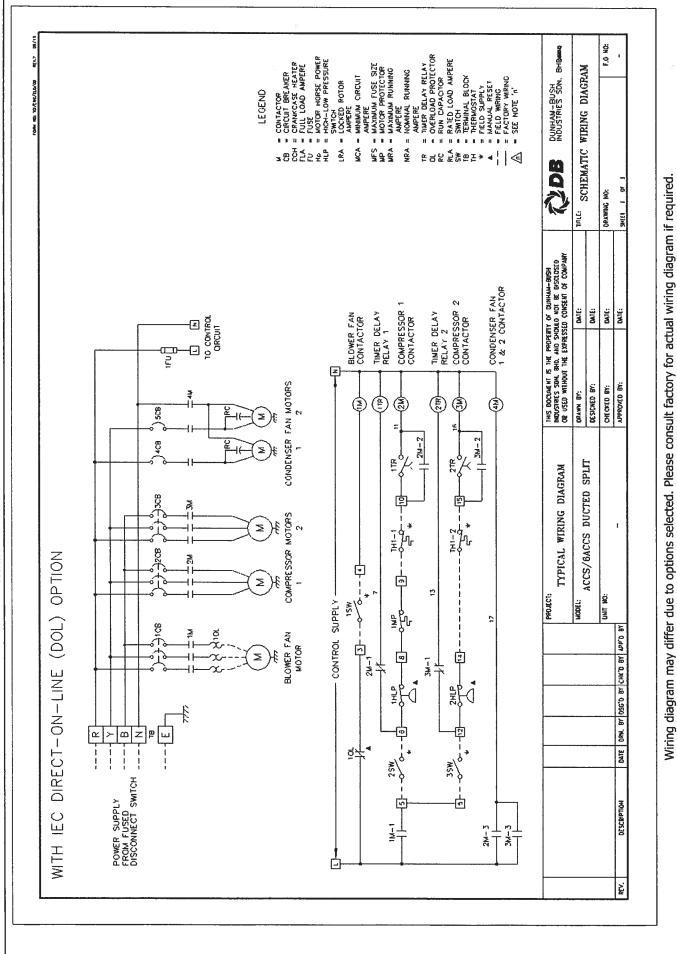
Indication on filter status shall be provided as maintenance reminder

# 38. High and Low Pressure Switches (Adjustable)

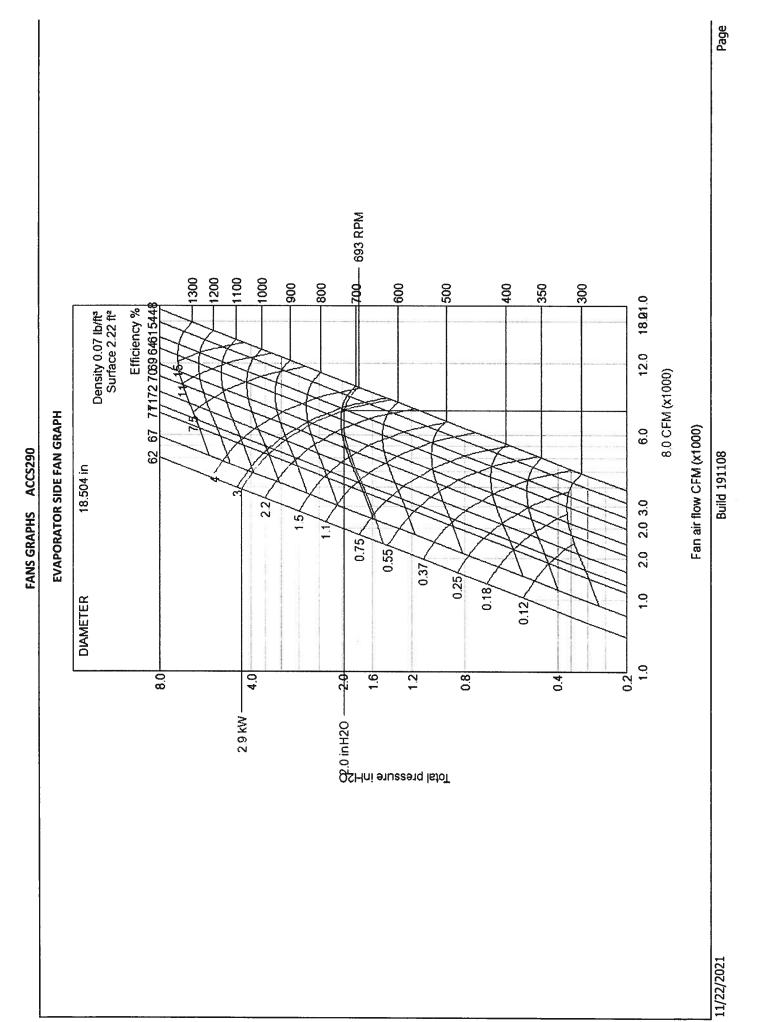
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.







B21-17902



# **TECHNICAL REPORT**



Project name	OOG condensers				1.014.04		
Submitted by				- In .		44 /00 /04	
	Leo			Date		11/22/20	121
Customer OVERVIEW	JWS	engeler	19 to a Visigian (19 tale and the contract bases and	Quanti		1	244004
			In co	Day of the Control of	A THE CONTRACTOR IN		
System Type	Air-Cooled Split		Refrigerant		R410A		
Series	ACCS		Power supply		460V/3	/60HZ	
Unit nomenclature	6ACCS435-QG + 6EB435D						
Altitude	0	ft	Approval	TAKE PERSONAL SERVICE	MOTOR L ASSESS OF	Short or artists (Marie St. Marie St	different annual con-
FILTER						7 <b>1</b> 2 1	
Туре	Filter 1" 70% Eff						
Size (Qty)	20x25x1(3), 25x25x1(3)	SE NOW CHARACTER				A	
	And the state of t				C.		16.30
Type	Ø3/8		Number of coil			1	
Rows	3		Face area			21.39	ft²
Fins per inch	13		Face velocity				ft/min
Refrigerant	R410A		Entering air (DB)			80	°F
Capacity (Total)	377724	Btu/h	Entering air (WB)			67	°F
Capacity (Sensible)	274677	8tu/h	Leaving air (DB)			57.7	°F
Air pressure drop	0.5	inH2O	Leaving air (WB)			56.3	°F
COMPRESSOR (OR EQUIVALENT	MODELS)			100	2	X	
Compressor						2 X ZP182	
Type	Scroll, Fixed Speed		Quantity			2	
Total LRA	358.0	Α	Total Power			31.2	kW
			Total Amps			50.6	
FAN (EVAPORATOR)	是我们都会把这个数据的自己的。 第二章	7					AS MA
Type	Belt Driven		Model			450	CONTRACTOR OF SECTION AND SECTION ASSESSMENTS
Air Flow	11500	CEM	Fan Speed				RPM
External Static Pressure		inH2O	Absorbed Power			5.4	
Total Static Pressure		inH2O	Motor Horsepower				HP
Quantity	1		FLA	_		14.4	
Quartery			Locked rotor current (LRA)			85.7	
CONDENSER (AIR COOLED)			LOCKED TOTOL CUITETT (ENA)		W. (5)	83.7	
Model	Ø3/8	APPLICATIONS	Motor HP (each)	3046.03,82232			HP
Quantity	1		FLA (each)	_		1.6	
Condenser Fan Motor	26" (660MM)					95	
	<del></del>		Ambient Temperature			95	F
Quantity  ELECTRICAL SUMMARY	3			211 S. J. S. R. S. S.	1 1 1 1 1	74. TALL 374.	
Unit FLA	69.8		WATER A SANATO COM TOTAL	121402212120			
<del></del>			MCA			76.1	
Total Power Input	39.02		MFS			125	Α
EER	9.68	THE STATE OF	IEER	W 25 1 10 12 13 13 13 13 13 13 13 13 13 13 13 13 13	and the same of	n/a	
OPTIONS					100	* Paris R. Maria	
DESCRIPTION							
SV: Suction/Discharge/Liquid Li							
CU-C: Condenser Coil Fin Mater	ials - Copper						
CG: Condenser Coil Guard							
DOL2: IEC DOL (Non UL)					_		
MII: Door Interlock Main Incom	<del>-</del>						
PFR: UVR/Phase Failure Protect							
IR33: Controller - IR33							
NOTES	14年,15年,1886年,1986						4
Manufacturer reserves the right to c	hange specifications without prior n	otice.					



#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

#### 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

## 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### **6 CONDENSER COIL**

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# **OPTIONS**

#### 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

#### 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

· Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

## 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

# 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

# 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

#### 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

#### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

#### **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

#### 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

#### 22. Unit Controller (IEC DOL must be selected)

# (Model 108 and above) (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

(B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- · Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status



#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

#### (Micro-Vision or Vision must be selected)

#### (Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

#### 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

#### 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above),

## 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

#### (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

#### 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring

current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stq / 21 kw
- 1140 / 4Stg / 21 kw 1340 / 5Stg / 21 kW

## 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

(IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

## 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

#### 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

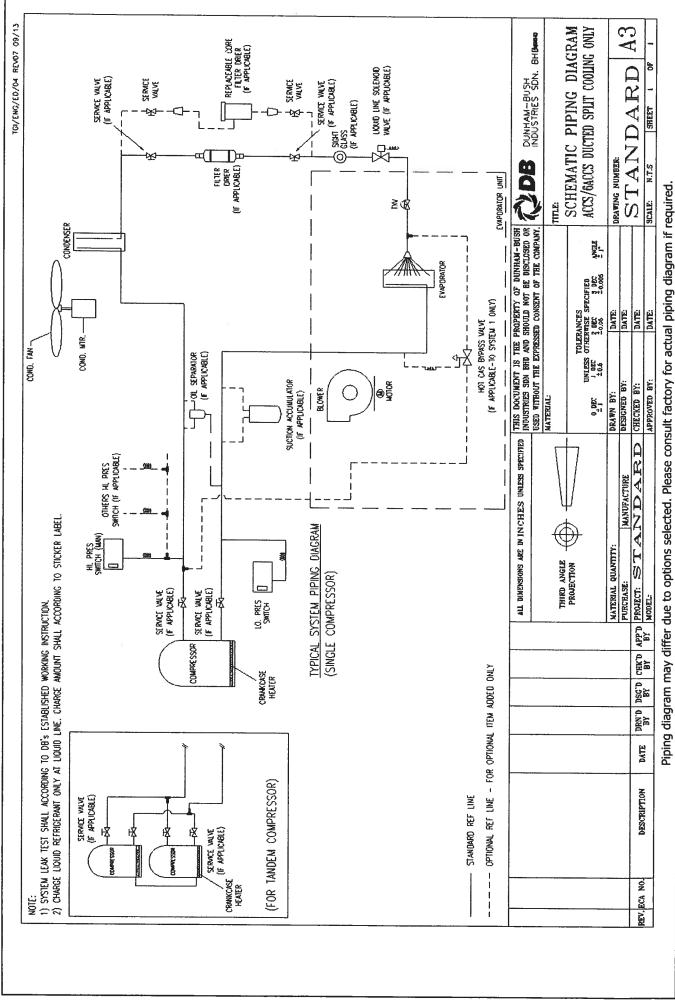
#### 37. Dirty Filter Relay & Indication Light

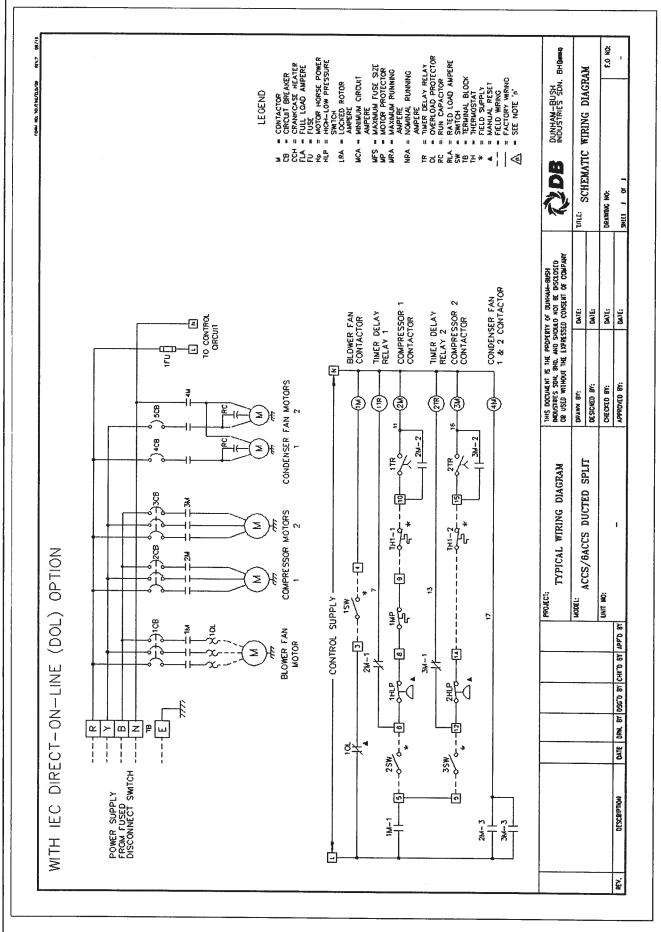
(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

# 38. High and Low Pressure Switches (Adjustable)

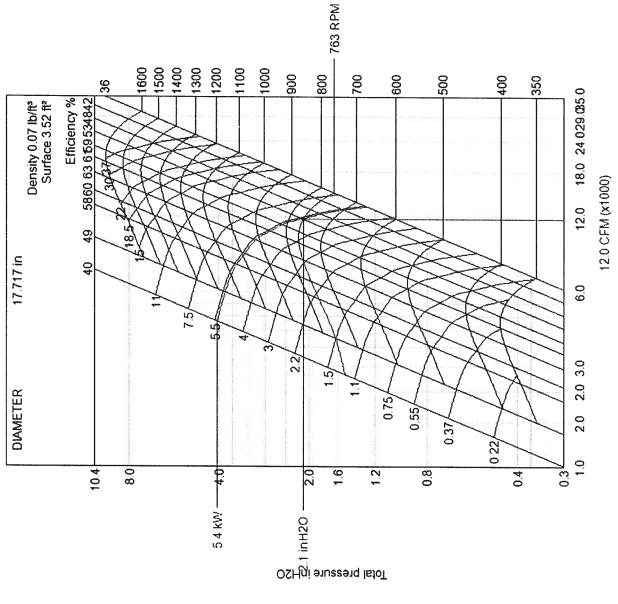
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.





Wiring diagram may differ due to options selected. Please consult factory for actual wiring diagram if required.





**EVAPORATOR SIDE FAN GRAPH** 

FANS GRAPHS ACCS435

# **TECHNICAL REPORT**



Project name	OOG condensers			the street of
Submitted by	Leo	Leo		
Customer	JWS		Quantity	11/22/2021
OVERVIEW	<b>"</b> "的"是是连军队","是是国际		100	<b>一点,</b>
System Type	Air-Cooled Split	Refrigerant	R410/	4
Series	ACCS	Power supply	208V/3/60HZ	
Unit nomenclature	6ACCS435-QG + 6EB435D-QG			
Altitude	0 ft	Approval		
FILTER	在第15年中的1890年,在1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年,1990年			
Туре	Filter 1" 70% Eff			
Size (Qty)	20x25x1(3), 25x25x1(3)			3.
DX COOLING COIL		<b>2006年</b>		
Гуре	Ø3/8	Number of coil		1
Rows	3	Face area		21.39 ft²
Fins per inch	13	Face velocity		538 ft/mir
Refrigerant	R410A	Entering air (DB)		80 °F
Capacity (Total)	376700 Btu/h	Entering air (WB)		67 °F
Capacity (Sensible)	273995 Btu/h	Leaving air (DB)		57.7 °F
Air pressure drop	0.5 inH2O			56.3 °F
COMPRESSOR (OR EQUIVALE	NT MODELS)	Leaving an (Way)		30.3 F
Compressor	The second secon			2 X ZP182
Гуре	Scroll, Fixed Speed	Quantity		2 7 2 7 102
Total LRA	680.0 A	Total Power		32.1 kW
	000.07A	Total Amps		103.6 A
AN (EVAPORATOR)		Trotal Amps		103.6 А
Гуре	Belt Driven	Model	DESEMBLE DE LA COMPANION DE LA	450
Air Flow	11500 CFM	Fan Speed		450
External Static Pressure	0.5 inH2O			762 RPM
Total Static Pressure	1.4 inH2O			5.4 kW
Quantity	1.4/111120	Motor Horsepower FLA		10 HP
quantity			wa <del>di</del> a ama	31.8 A
CONDENSER (AIR COOLED)		Locked rotor current (LRA)		190.1 A
Model	da In	144-1-11D/ -13	<b>建一种的</b> 种种的	
Quantity	Ø3/8	Motor HP (each)		1 HP
Condenser Fan Motor	1	FLA (each)		2.9 A
Quantity	26" (660MM)	Ambient Temperature		95 °F
ELECTRICAL SUMMARY	3			AND THE RESERVE OF TH
Unit FLA	144.1 A	148.9	2000年間,1987年6世	
Total Power Input	39.8 kW	MCA		157 A
EER		MFS		225 A
OPTIONS	9.47	IEER		n/a
DESCRIPTION				1.290
SV: Suction/Discharge/Liquid	Lina Camilas Values			
CU-C: Condenser Coil Fin Mat				
CG: Condenser Coil Guard	eriais - copper			
DOL2: IEC DOL (Non UL)				
MII: Door Interlock Main Inco				- W
PFR: UVR/Phase Failure Prote	CT			
IR33: Controller - IR33				
OTES		1900年1900年1900年1900年1900年1900年1	ne de la companya de	<b>""</b> 5 数 5 数 6 数 6 数 6 数 6 数 6 数 6 数 6 数 6 数



#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

#### 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

#### 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# **OPTIONS**

#### 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

#### 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- · Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

#### 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

#### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

#### 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

#### 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

#### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

#### **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, anti-recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

#### 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect

#### (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

#### 22. Unit Controller (IEC DOL must be selected)

#### (Model 108 and above)

#### (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

#### (B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- · Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status

#### **Air-Cooled Split**

#### **Options Guide**

- Remote start/stop input
- · Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

#### (Micro-Vision or Vision must be selected)

#### (Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

### 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

# 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

#### 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

### (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

# 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

(IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

# 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

# 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

# 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

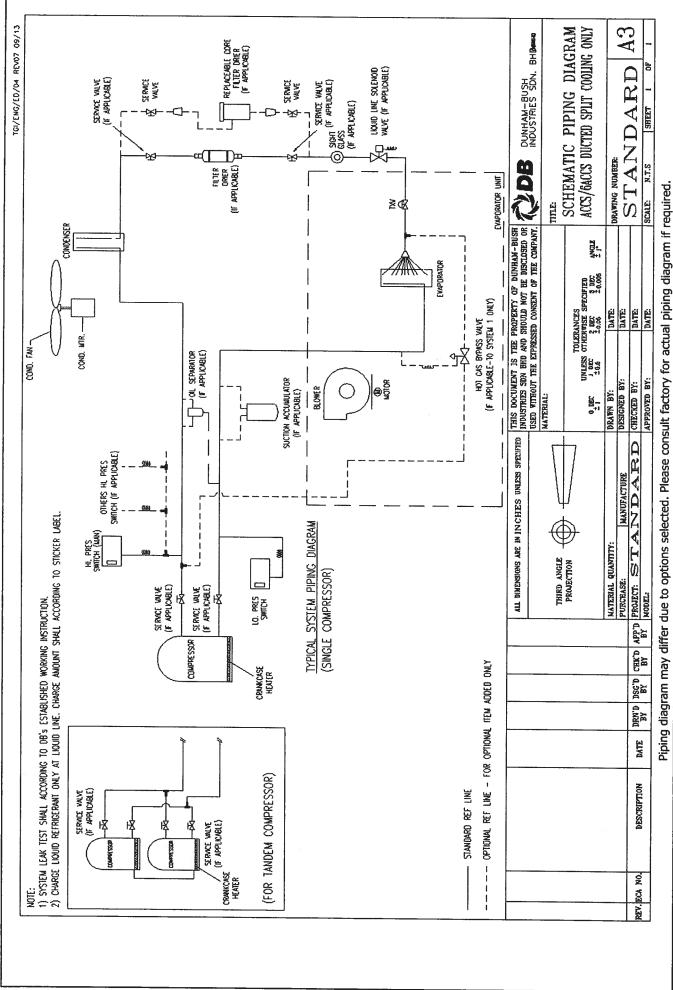
# 37. Dirty Filter Relay & Indication Light

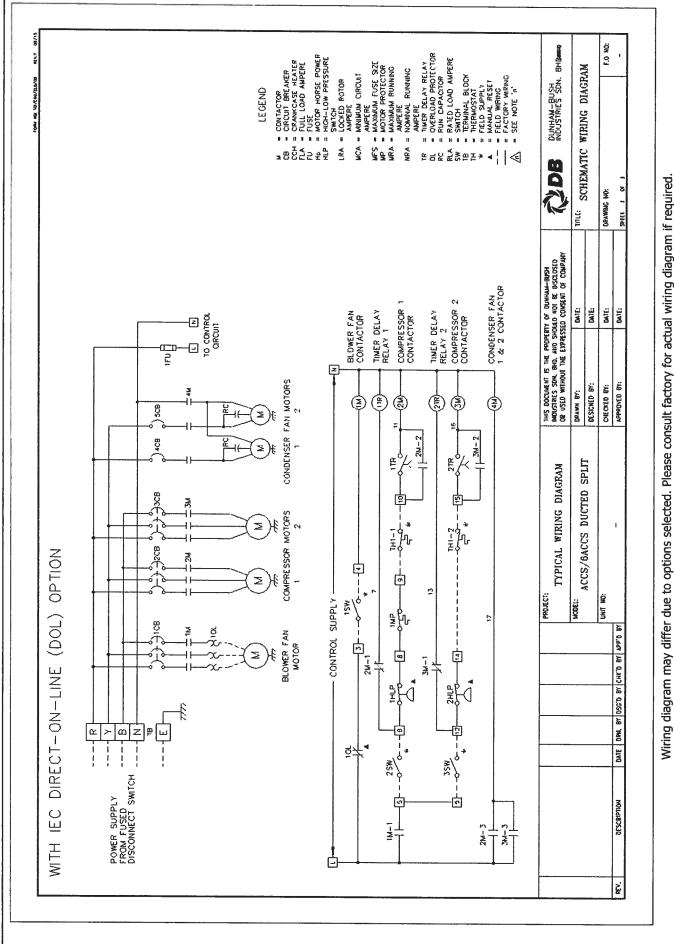
(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

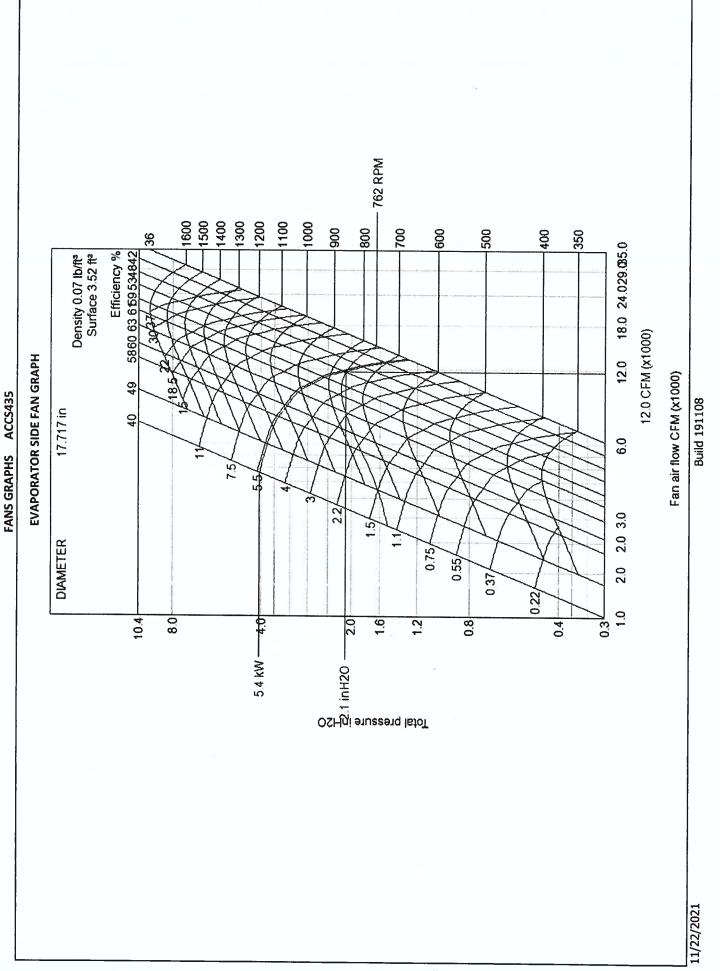
## 38. High and Low Pressure Switches (Adjustable)

Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.









# **TECHNICAL REPORT**



Project name	OOG condensers					
Submitted by	Leo			Date	Date 11/22/2	
Customer	JWS			Quantity		
OVERVIEW					- 4-4	
System Type	Air-Cooled Split		Refrigerant		R410A	ANGEN SOCIAMI
Series	ACCS				208V/3/60HZ	
Unit nomenclature	6ACCS570-QG + 6EB570D	-QG	Power supply		2001/3/00112	
Altitude		ft	Approval			
FILTER	The state of the s				2.31	
Туре	Filter 1" 70% Eff	22700 20700	the state of the s		MANUAL STREET, SECTION AND ADDRESS.	THE PARTY OF
Size (Qty)	20x25x1(9)					
DX COOLING COIL						W. to
Туре	Ø3/8	- Carrier Control	Number of coil		1	
Rows	3		Face area		29.17	
Fins per inch	12		Face velocity			ft/min
Refrigerant	R410A		Entering air (DB)		80	
Capacity (Total)	497149	Btu/h	Entering air (WB)	-	67	
Capacity (Sensible)	357934		Leaving air (DB)		57.7	<del></del>
Air pressure drop		inH2O	Leaving air (WB)			
COMPRESSOR (OR EQUIVALEN	T-MODELS)		Leaving all (VVD)		56.3	
Compressor		10020-002		NAME OF THE OWNER, WHEN THE OW		
Туре	Scroll, Fixed Speed		Quantity		X ZP154 + ZP182	
Total LRA	2x300 1x340	۸	Total Power		3	
	2,300 1,340	^	Total Amps		44.2	
FAN (EVAPORATOR)	MESTICAL TELEVISION OF A CONTROL OF	2,40		SACRES ASPA STRUCTURE	137.4	j <b>A</b>
Туре	Belt Driven	CHEST MASSING	Model	CONTRACTOR CARRO		
Air Flow	15000	CEM	Fan Speed		500	RPM
External Static Pressure		inH2O	Absorbed Power			kW
Total Static Pressure		inH2O	Motor Horsepower			<del> </del>
Quantity	1	IIIIIZO	FLA			HP
			Locked rotor current (LRA)		44.2	
CONDENSER (AIR COOLED)		1.062.230			286.1	
Model	Ø3/8	uktinklige -		4/4/20 <sup>44</sup>		100
Quantity	<i>y</i> 3/8		Motor HP (each) FLA (each)	<del></del>		HP
Condenser Fan Motor	26" (660MM)		<del>                                     </del>		2.9	
Quantity			Ambient Temperature		95	F
ELECTRICAL SUMMARY	4	MANAGERA				
Unit FLA	193.2			*** Co. U.S. 2014 (V.S.	An in safety och professionic after	30034
Total Power Input	54.42		MCA MFS	-	206.2	
EER	9.14	VAA			300	A
OPTIONS		40.000	IEER	ISAN BURNAN KANDAN	n/a	1230 1 113 114 116
DESCRIPTION	TAYON THE RESERVE TO SERVE THE SERVE			<b>5.</b>		N.
SV: Suction/Discharge/Liquid Li	ine Service Valves					
CU-C: Condenser Coil Fin Mate						
CG: Condenser Coil Guard	тыз соррег					
DOL2: IEC DOL (Non UL)				<u></u>		
MII: Door Interlock Main Incom	ning Isolator					
PFR: UVR/Phase Failure Protect						
IR33: Controller - IR33	<u> </u>					
		COZDEZ SENES		THE LANGE TO LEADING THE		SOUTH AND MANY OF



#### **Specs Guide**

# **SPECIFICATIONS**

#### 1 GENERAL

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The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

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Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

#### 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### **6 CONDENSER COIL**

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

# **OPTIONS**

# 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

#### 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

# 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

· Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

# 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

# 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

# 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

#### 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

#### 15. Filter Dryer

#### **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

# (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

# 19. Door Interlock Main Incoming Isolator (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

#### 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

# 21. UVR/Phase Failure Protect

# (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

# 22. Unit Controller (IEC DOL must be selected)

# (Model 108 and above)

## (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

(B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status

## Air-Cooled Split

#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

# (Micro-Vision or Vision must be selected)

#### (Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

# 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

# 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

# 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

#### 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

# (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

#### 30. Compressor Soft Starter

# (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring

current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

(IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

# 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

#### 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

# 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

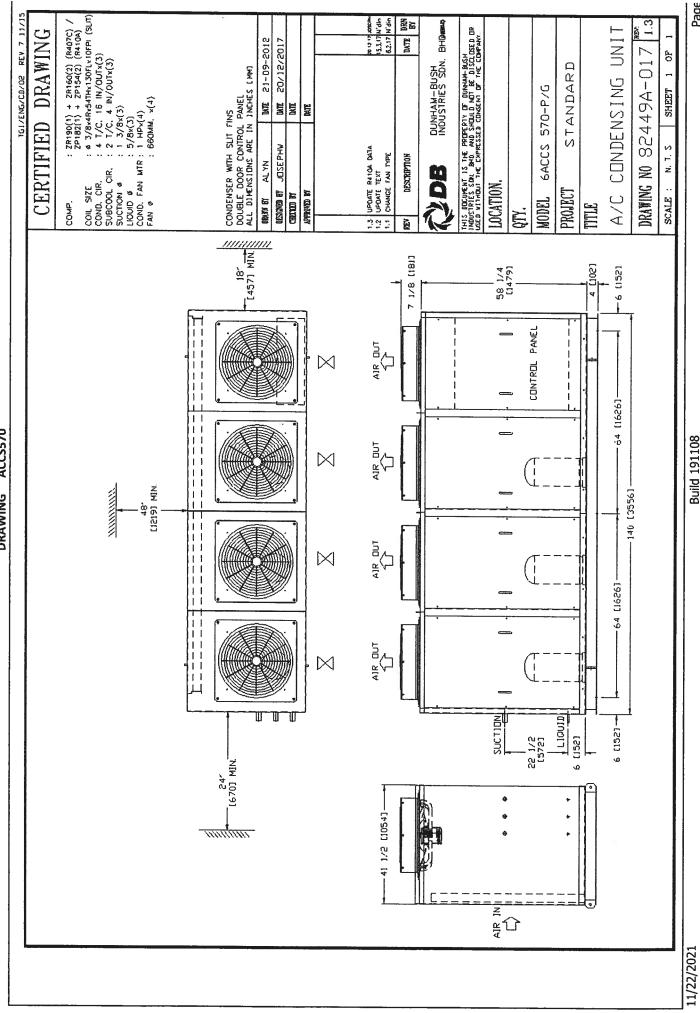
#### 37. Dirty Filter Relay & Indication Light

(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

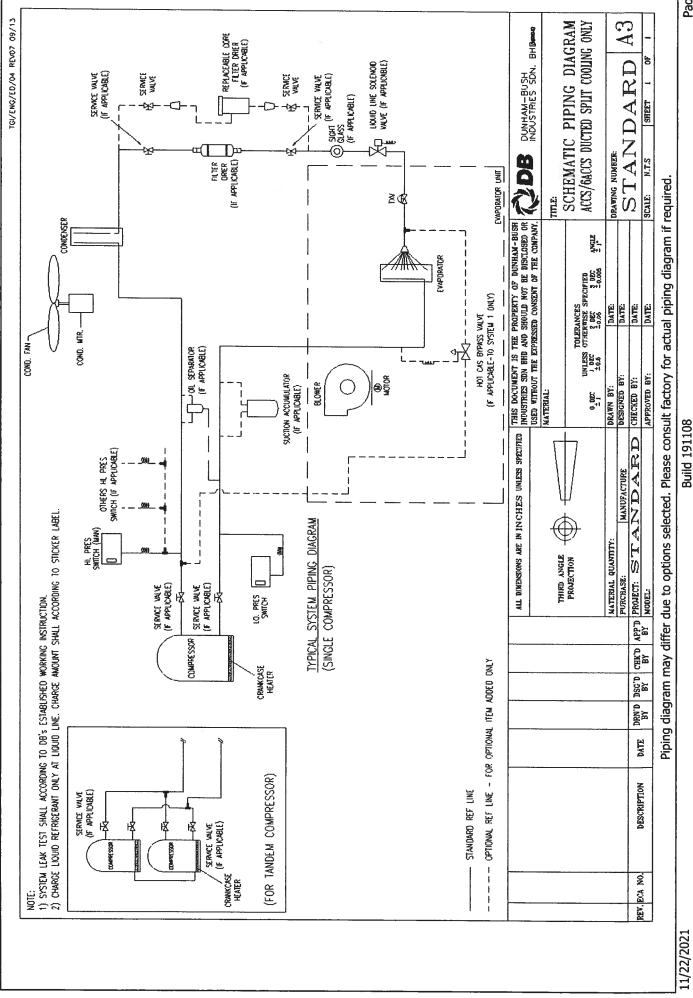
# 38. High and Low Pressure Switches (Adjustable)

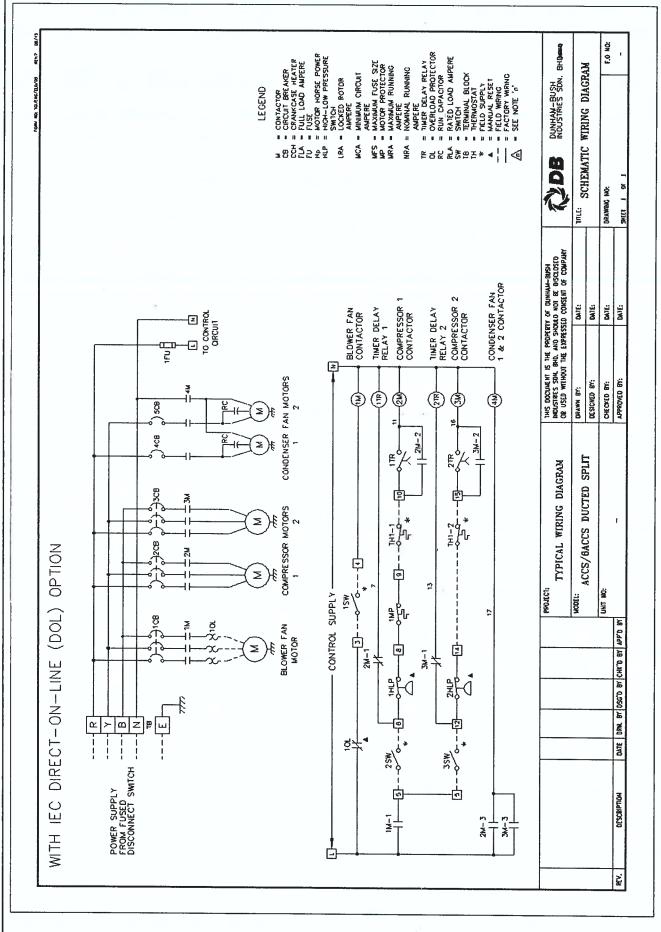
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.



DRAWING ACCS570





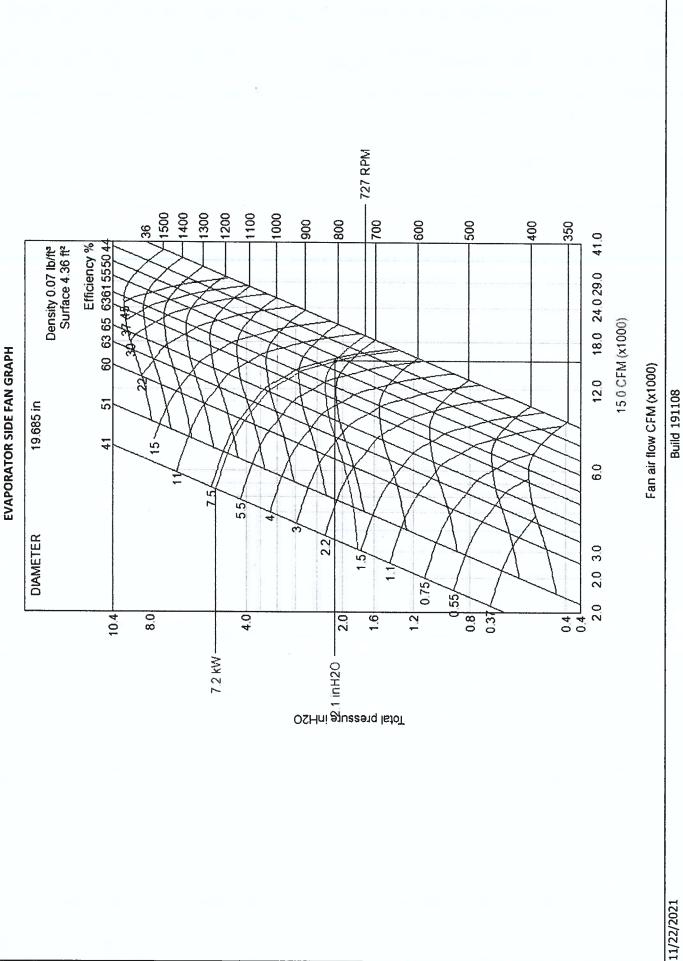


Wiring diagram may differ due to options selected. Please consult factory for actual wiring diagram if required

Build 191108

11/22/2021





FANS GRAPHS ACCS570

## **TECHNICAL REPORT**



Project name	OOG condensers						
Submitted by	Leo			Date		11/22/2	021
Customer	JWS			Quanti	tv	1	021
OVERVI <b>EW</b>	the action of the	19.0			*	-	
System Type	Air-Cooled Split		Refrigerant		R410A	128.65 (1000) 72.46.5	STATE OF THE PARTY
Series	ACCS		Power supply		460V/3/0	50H7	
Unit nomenclature	6ACCS700-QG + 6EB700D-QG				14004/5/	50112	
Altitude	0 ft		Approval				
FILTER			The Control of the Control				
Туре	Filter 1" 70% Eff				THE PARTY OF THE P		en en en en en en en
Size (Qty)	20x25x1(3), 25x25x1(6)						
DX COOLING COIL			The state of the s		7.7	77.7	
Туре	Ø1/2		Number of coil			1	
Rows	4		Face area			34.03	
Fins per inch	10		Face velocity				ft/min
Refrigerant	R410A		Entering air (DB)			80	
Capacity (Total)	640800 Btu		Entering air (WB)			67	
Capacity (Sensible)	442555 Btu	_	Leaving air (DB)			55.9	
Air pressure drop	0.6 inH:		Leaving air (WB)			54.7	
COMPRESSOR OR EQUIVALENT MO	DELS)					34.7	F
Compressor		OVERAL ENTREMENT		386 2762 (886-2) / 586	2 Y 7D1	L54 TDM	
Туре	Scroll, Fixed Speed	Ti	Quantity		2 / 2 / 2 / 2	4	
Total LRA	600.0 A		Total Power			49.8	LAA
	3333	_	Total Amps			74.9	
FAN((EVAPORATOR)			Total Amps	I		74.3	A
Туре	Belt Driven		Model			560	
Air Flow	17200 CFM		Fan Speed				RPM
External Static Pressure	0.5 inH2	_	Absorbed Power			7.2	
Total Static Pressure	1.5 inH2		Motor Horsepower			15	
Quantity	1		FLA			19.9	
			Locked rotor current (LRA)			129.1	
CONDENSER (AIR COOLED)	THE STATE OF THE S		The state of the s			123.1	A
Model	Ø3/8	ancontractor to	Motor HP (each)		TO THE STREET	2 2/3	LID.
Quantity	1		FLA (each)			4	
Condenser Fan Motor	800MM		Ambient Temperature			95	
Quantity	3	<del></del>	William Terriperature			93	
ELECTRICAL SUMMARY							graski.
Unit FLA	106.8 A	1	MCA			111.5	Δ
Total Power Input	63.68 kW		MFS			150	
EER	10.06		IEER		-	n/a	
OPTIONS.			oranie de la companya de la company			ny a [	
DESCRIPTION					<u> </u>		NAME OF STREET
SV: Suction/Discharge/Liquid Line Serv	rice Valves						
CU-C: Condenser Coil Fin Materials - C	opper						-
CG: Condenser Coil Guard							
DOL2: IEC DOL (Non UL)							
MII: Door Interlock Main Incoming Iso	ator						
PFR: UVR/Phase Failure Protect							
IR33: Controller - IR33						<del></del>	
NOTES							
Manufacturer reserves the right to change	specifications without prior notice.		A COMPANY OF THE PARTY OF THE P				
				-			



#### **Specs Guide**

## **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

## 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

## 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

## OPTIONS

#### 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

## 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

## 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- · Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

· Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

## 6. Replaceable Core Filter Drier

## (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

#### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

## 8. Liquid Line Solenoid Valve (LLSV)

#### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit.

#### 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

## 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

## 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

# DB

## Air-Cooled Split

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

## 19. Door Interlock Main Incoming Isolator (IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

#### 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

## 21. UVR/Phase Failure Protect (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

## 22. Unit Controller (IEC DOL must be selected)

## (Model 108 and above)

## (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

(B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- · Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Built in memory for data logging
- Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status

#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

## (Micro-Vision or Vision must be selected)

(Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- (1) Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) **GSM Modem**

#### Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

## Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

#### 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

## 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

## (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

#### 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

#### 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring

current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW 700 / 3Stg / 18 kW 760 / 3Stg / 18 kW 800 / 4Stg / 18 kW 890 / 4Stg / 18 kW 960 / 4Stg / 18 kW

- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



#### **Options Guide**

## (IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

## 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

## 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

#### 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

## 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

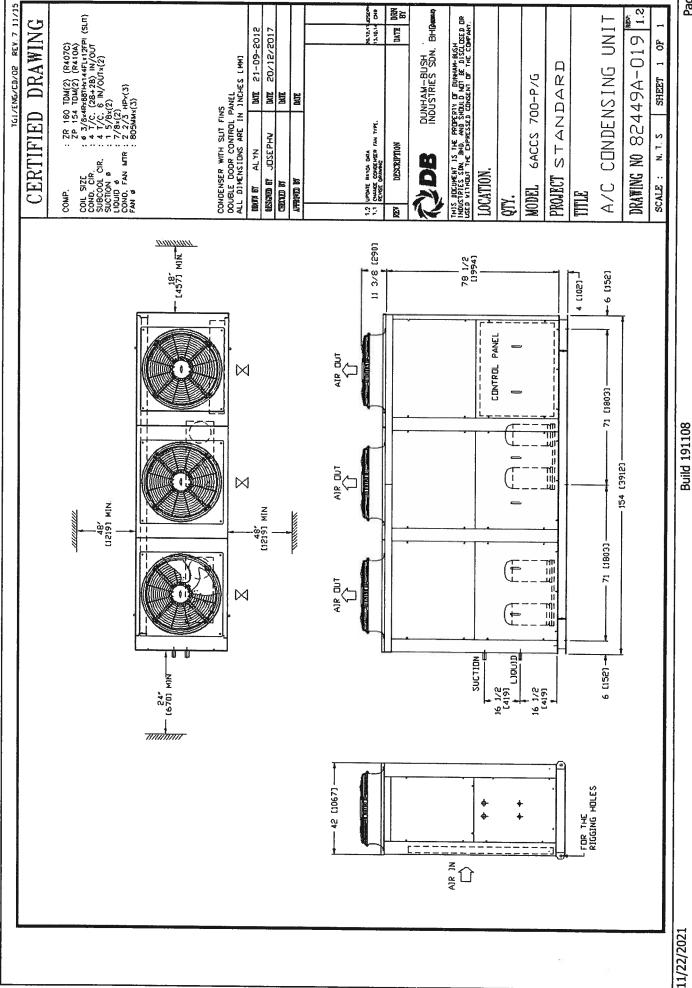
## 37. Dirty Filter Relay & Indication Light

(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

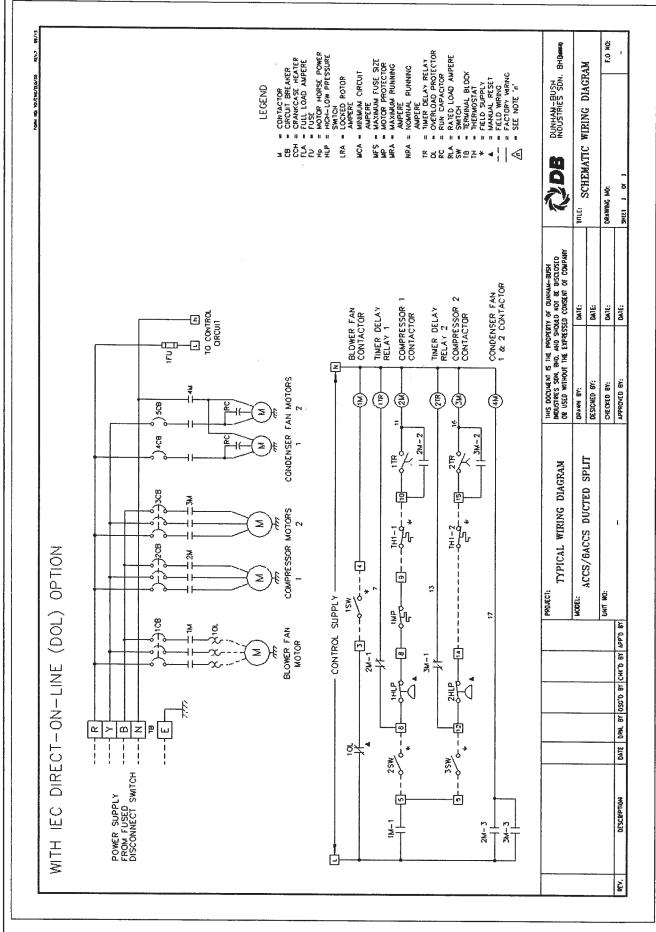
#### 38. High and Low Pressure Switches (Adjustable)

Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.



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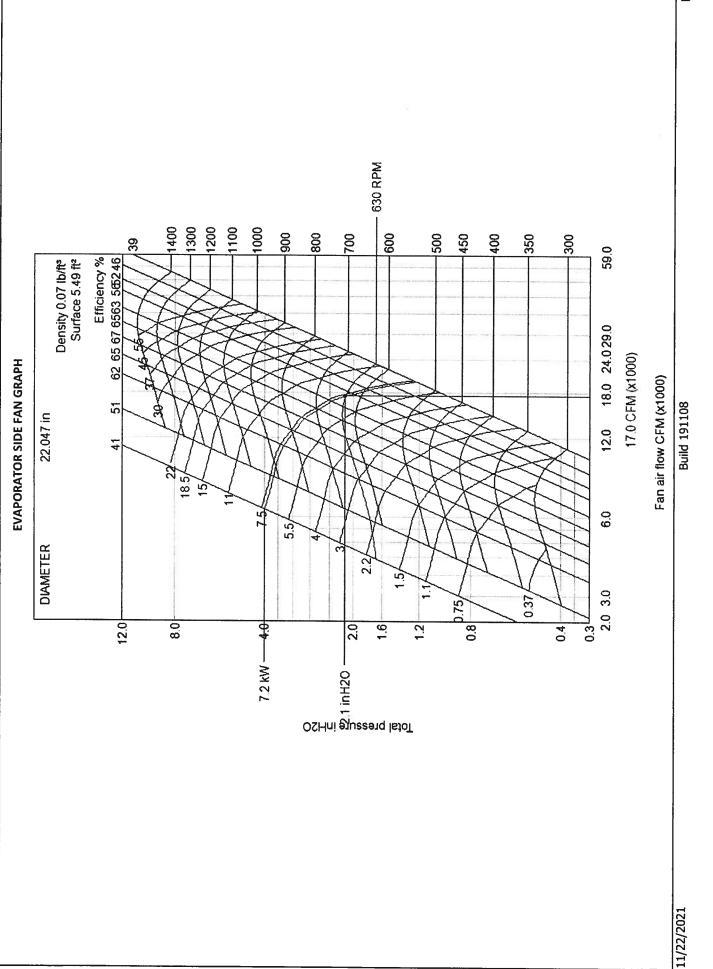


Wiring diagram may differ due to options selected. Please consult factory for actual wiring diagram if required.

Build 191108

11/22/2021





FANS GRAPHS ACCS700

## **TECHNICAL REPORT**



Project name	OOG condensers			
Submitted by	Leo	Leo		11/22/2021
Customer	JWS		Quantity	1
OVERVIEW.		CONTRACTOR SOLETION		
System Type	Air-Cooled Split	Refrigerant	R410/	1 Janes Je
Series	ACCS	Power supply		/3/60HZ
Unit nomenclature	6ACCS700-QG + 6EB700D-QG			
Altitude	0 ft	Approval		
FILTER	The Affilian Designation of the			
Туре	Filter 1" 70% Eff	200	1940 May 1519 1519 1519 1519 1519 1519 1519 151	
Size (Qty)	20x25x1(3), 25x25x1(6)			
DX COOLING COIL	er district and the second		ji j	
Type	Ø1/2	Number of coil	W NOVELEN CONTRACT CONTRACTOR	1
Rows	4	Face area		34.03 ft <sup>2</sup>
Fins per inch	10	Face velocity		505 ft/min
Refrigerant	R410A	Entering air (DB)		80 °F
Capacity (Total)	639094 Btu/l			67 °F
Capacity (Sensible)	441872 Btu/			56.1 °F
Air pressure drop	0.6 inH2			54.7 °F
COMPRESSOR (OR EQUIVALENT		5   Lecaving air (WD)	eres to the	34.7  F
Compressor	Care Constant van 1900 van van 1900 van	AND AND DESCRIPTION OF STREET OF THE STREET		
Туре	Scroll, Fixed Speed	Quantity		ZP154 TDM
Total LRA	1200.0 A	Total Power		4
	1200.0 A		<del></del>	51.8 kW
FAN (EVAPORATOR)		Total Amps	Calori e e Paro I socorrigo	161.3 A
Type		the state of the s		
Air Flow	Belt Driven 17200 CFM	Model		560
External Static Pressure		Fan Speed		630 RPM
Total Static Pressure	0.5 inH20			7.2 kW
Quantity	1.5 inH20			15 HP
Quantity	1	FLA		44.2 A
CONDENSED (AID COOLED)	(Tariffica	Locked rotor current (LRA)	770%	286.1 A
CONDENSER (AIR COOLED)				**************************************
	Ø3/8	Motor HP (each)		2 2/3 HP
Quantity	1	FLA (each)		7.5 A
Condenser Fan Motor	MM008	Ambient Temperature		95 °F
Quantity	3	Tay No.		
ELECTRICAL SUMMARY				* * * * * * * * * * * * * * * * * * *
Unit FLA	228 A	MCA		238.1 A
Total Power Input	65.26 kW	MFS		300 A
EER PROPERTY AND THE ACCUSANCE	9.79	IEER		n/a
OPTIONS		在第一次,第二次的第三人称单位。 第二人		
DESCRIPTION				
SV: Suction/Discharge/Liquid Lir				
CU-C: Condenser Coil Fin Mater	ials - Copper			
CG: Condenser Coil Guard				
DOL2: IEC DOL (Non UL)				
MII: Door Interlock Main Incom	ing Isolator			
PFR: UVR/Phase Failure Protect				<u> </u>
IR33: Controller - IR33				
NOTES				
Manufacturer reserves the right to c	hange specifications without prior notice.		***************************************	



#### **Specs Guide**

## **SPECIFICATIONS**

#### 1 GENERAL

The air-cooled condensing section shall consist of the compressor(s); condenser coil; propeller condenser fan(s) with motor and drive assembly.

The evaporator blower section shall consist of the blower fan and motor assembly; direct expansion coil and a filter frame for flat filters. The units shall be capable to operate up to 115oF [46oC] ambient temperature without failure.

#### 2 CABINET

The unit cabinet shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance up to 1000 hours salt spray test according to ASTM B-117. Evaporator section shall be of 1/2"[13mm] thick x 1 1/2 lb/ft³ [24kg/m³] density (up to model 760) and 1"[25mm] thick x 2 lb/ft³ [32kg/m³] density (model 800 and above) single skin lined with thermal conductivity of 0.0346W/m.K [0.24Btu.in/ft2.h.oF] acoustical fiberglass insulation. The insulation shall have fire resistant of Class O (BS 476 Part 6, 7). Access doors shall be provided for easy service and maintenance of unit internal parts.

#### 3 COMPRESSOR & REFRIGERATION PIPING

Compressor(s) shall be scroll, refrigerant gas cooled and mounted on the base via vibration isolators. 1, 2, 3 or 4 refrigeration circuits shall be piped with copper tubing and include expansion valve with external equalizer, suction accumulator (standard for heat pump models), pressure fittings of manual reset high pressure control and auto reset low pressure safety cutouts as well as charging/access ports in each circuit. Each compressor shall have a crankcase heater installed, properly sized to minimize the amount of liquid refrigerant present in the oil sump during off cycles. The compressors comply with the internationally recognized standards CE and UL.

#### 4 EVAPORATOR COIL

Evaporator coil shall be of draw through air design for uniform air distribution. The evaporator coil shall be quality construction of staggered row of 3/8"OD (model 68 to 570) and 1/2"OD (model 640 and above) seamless copper tube, mechanically bonded to aluminium fins with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system. A galvanized and painted drain pan shall be provided to cover the entire coil area. The drain pan shall be designed to incorporate sloped gutter for complete condensate removal.

## 5 EVAPORATOR BLOWER AND MOTOR

Evaporator blower shall be direct-driven (model 68 to 95) and belt driven (model 108 and above), double-inlet-double-width (DIDW) forward curved. All blowers are statically and dynamically balanced to ensure quiet operation and smooth performance. Heavy-duty V-belt fan drive with cast iron pulleys keyed and secured to the blower shaft shall be provided (model 108 and above). Motors shall be of totally enclosed fan cooled (TEFC) with IP55 enclosure rating, 4-poles with class F insulation. Motors shall be mounted to an adjustable motor frame. Motor pulleys shall be cast iron, keyed and secured to the motor shaft (model 108 and above).

#### 6 CONDENSER COIL

Condenser coil shall be air cooled with integral sub-cooling circuit, constructed from staggered row of 3/8"OD inner grooved seamless copper tube, mechanically bonded to aluminium fins (aluminium coated fin/ hydrophilic fin for heat pump models) with galvanized coil plates. The coil shall be factory leak and pressure tested to 650psig (45 bar) for R410A system, 450psig (31 bar) for R407C system under water.

#### 7 CONDENSER FAN AND MOTOR

Condenser fan shall be direct driven propeller type. Condenser fan motors shall be of totally enclosed air over (TEAO), 6-poles with class F insulation and wired to unit control panel. Condenser fans shall be constructed of corrosion resistant blades and are statically and dynamically balanced (model 68 and above). The condenser fan assembly shall be provided with heavy gauge and rust resistant steel wire fan guard.

#### 8 FILTERS

Evaporator unit shall be provided with 1" thick washable filters having average arrestance efficiency of 70% as per ASHRAE Standard 52.1 (or equivalent).

#### 9 CONTROL PANEL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be wired without starter and control.



#### **Options Guide**

## **OPTIONS**

## 1. Hot Gas Bypass

The refrigerant circuit (applicable to first in last out refrigeration system only) shall be provided with a hot gas bypass system for low load and low ambient condition (evaporator freeze protection).

## 2. Suction/Discharge/Liquid Line Service Valves

Service valves shall be provided at each refrigerant lines for service convenience.

#### 3. Evaporator Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

- · Hydrophilic coated aluminium fin
- Copper Fin
- Aluminium fin with DB-CoatTM

#### 4. Condenser Coil Fin Materials

In lieu of standard aluminium fin, alternative fin material and/or protective coating include,

Hydrophilic coated aluminium fin

(only applicable for cooling only models)

- Copper Fin
- · Aluminium fin with DB-CoatTM

#### 5. Stainless Steel Drain Pan

A stainless steel condensate drain pan shall be provided for the evaporator section in lieu of standard galvanized and painted drain pan.

#### 6. Replaceable Core Filter Drier

#### (Shipped loose, field installed)

Replaceable filter core drier shall be provided for the convenience of filter driers core replacement.

#### 7. Closed Cell Elastomer Insulation

Evaporator section shall be single skin and lined with 1" closed celled insulation (in lieu of fiberglass insulation) with fire resistant of Class O (BS476 Part 6) and Class 1 (BS476 Part 7).

#### 8. Liquid Line Solenoid Valve (LLSV)

### (Shipped loose, field installed)

Liquid line solenoid valve shall be provided for each refrigeration circuit,

## 9. Condenser Coil Guard

Powder coated wire mesh guard shall be provided for better condenser coil protection.

## 10. Suction accumulator (only applicable for cooling only models)

Suction accumulator shall be provided to prevent liquid refrigerant migration to compressor during system off-cycle.

## 11. High and Low Pressure Gauges

Each compressor is provided with unit mounted pressure gauges to monitor high and low side operating pressure.

#### 12. Stainless Steel Fasteners

Stainless steel fasteners shall be provided for outdoor condensing unit in lieu of standard fasteners for corrosion resistance application.

#### 13. Belt Guard

Belt guard shall be provided for belt and pulleys non- contact exposure (model 108 and above, not application to free blow type units).

#### 14. Evaporator Blower Isolator

Rubber or spring isolator shall be provided to dampen vibration caused by motor and blower (model 108 and above, not application to free blow type units).

## 15. Filter Dryer

# **DB**

## **Air-Cooled Split**

#### **Options Guide**

#### (Shipped loose, field installed)

Filter dryer shall be provided for each refrigeration system and shipped loose for field installation.

#### 16. Sight Glass

#### (Shipped loose, field installed)

Sight glass shall be provided for each refrigeration system and shipped loose for field installation.

#### 17. Oil Separator

Oil separator shall be provided for each refrigeration system.

#### 18. IEC DOL

The unit mounted control panel enclosure shall be constructed from heavy gauge galvanized steel with epoxy painted for excellent finished, weatherability and corrosion resistance. The enclosure shall conform to IP54. Access door shall be provided for easy access and security. The control panel shall be factory wired and shall include compressor, evaporator fan motor and condenser fan motor circuit breaker and contactors, compressor and evaporator fan motor thermal overload relays, anti-recycling time delay relay, control circuit fuse, power and control circuit terminal blocks and features 230V controls with 415V/ 3PH/50HZ (+Neutral) power supply or 115V/230V/24V controls with 208V-230V/380/460V-3PH-60HZ power supply.

## 19. Door Interlock Main Incoming Isolator

(IEC DOL must be selected)

Incoming Isolator is provided for isolate the main incoming power supply to the unit (model 108 and above).

## 20. Indicating Lights (IEC DOL must be selected)

Indication provided for high-pressure trip and compressor run (model 108 and above).

## 21. UVR/Phase Failure Protect

## (IEC DOL must be selected)

Phase Failure Relay is provided for over voltage, under voltage and phase loss protection.

#### 22. Unit Controller (IEC DOL must be selected)

#### (Model 108 and above)

## (A) IR33 Carel Controller

Panel mounted thermostat is provided for the unit to control and maintain the room temperature at a constant level or set point.

## (B) Micro-Vision

The unit shall be provided with Micro-Vision control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- Temperature controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status
- Remote start/stop input
- General alarm output (dry contact)
- Self-diagnostics
- Security password access with multiple access level for advanced settings
- · Unit status display

#### (C) Vision 2020i

The unit shall be provided with Vision 2020i control system with the following features,

- The control algorithm and parameters shall be stored in flash memory and EPROM of the controller and shall retain even in the event of power failures, without requiring a backup battery
- PGD Display
- · Built in memory for data logging
- · Temperature and humidity controlled
- Configurable by user
- Alarm status/display
- Analog input/output display
- Digital input/output status

# DB

## **Air-Cooled Split**

#### **Options Guide**

- Remote start/stop input
- Digital input for customer input alarm
- General alarm output (dry contact)
- · Self-diagnostics
- Security password access with multiple access level for advanced settings
- Unit status display

#### 23. BMS Communication Cards

## (Micro-Vision or Vision must be selected)

#### (Model 108 and above)

BMS communication card shall be factory installed to enable high level interfacing with BMS system.

- Modbus RTU RS485
- (2) LonWorks
- (3) BACNET MSTP
- (4) BACNET TCPIP
- (5) BACNET PTP
- (6) Webgate for TCPIP
- (7) Modbus TCPIP
- (8) SNMP
- (9) GSM Modem

## 24. Lock Out Stop (IEC DOL must be selected)

Emergency stop switch provided for Blower Fan.

## 25. Differential Pressure Switch for Evaporator Blower (IEC DOL must be selected)

Differential pressure switch provided to interlock with the control circuit.

## 26. Voltmeter (IEC DOL must be selected)

Voltmeter and selector switch provided for voltage display (model 108 and above).

## 27. Ammeter (IEC DOL must be selected)

Ammeter and selector switch provided for current display (model 108 and above).

#### 28. Electric Heater Starter

## (Electric Heater & IEC DOL must be selected)

Contactor and circuit breaker shall be provided for electric heater (model 480 and above).

## 29. Low Ambient Kit (standard for Heat Pump unit)

Fan cycling for better performance during low ambient (model 108 and above).

## 30. Compressor Soft Starter

#### (IEC DOL must be selected)

Soft-Starter for compressors to reduce the staring

current (model 108 and above).

#### 31. Electric Heater

Electric heater shall be provided for heating purpose (model 480 and above). Please consult factory for different heater kW.

- 480 / 3Stg / 15 kw
- 510 / 3Stg / 15 kw
- 570 / 3Stg / 15 kw
- 640 / 3Stg / 18 kW
- 700 / 3Stg / 18 kW
- 760 / 3Stg / 18 kW
- 800 / 4Stg / 18 kW
- 890 / 4Stg / 18 kW
- 960 / 4Stg / 18 kW
- 1020 / 4Stg / 21 kw
- 1140 / 4Stg / 21 kw
- 1340 / 5Stg / 21 kW
- 1520 / 5Stg / 21 kW

#### 32. Star Delta Starter Evaporator Motor



## **Options Guide**

(IEC DOL must be selected)

Star delta starting method available for evaporator motor (model 108 and above).

## 33. Nominal Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Nominal Evaporator motor (model 108 and above).

## 34. Max Evaporator Motor Soft Starter

(IEC DOL starter must be selected)

Soft-Starter available to reduce the starting current for Maximum sized Evaporator motor (model 108 and above).

## 35. VFD for Condenser Motor

(Low ambient kit & IEC DOL must be selected)

Variable Frequency Drive (VFD) on condenser fan motors (base fans) with pressure transducer added for more accurate control (model 108 and above)

## 36. 24VAC Fire Interlock Relay with Transformer

(IEC DOL must be selected)

24VAC fire relay and transformer shall be added to receive fire signal from fire control panel to trip the unit.

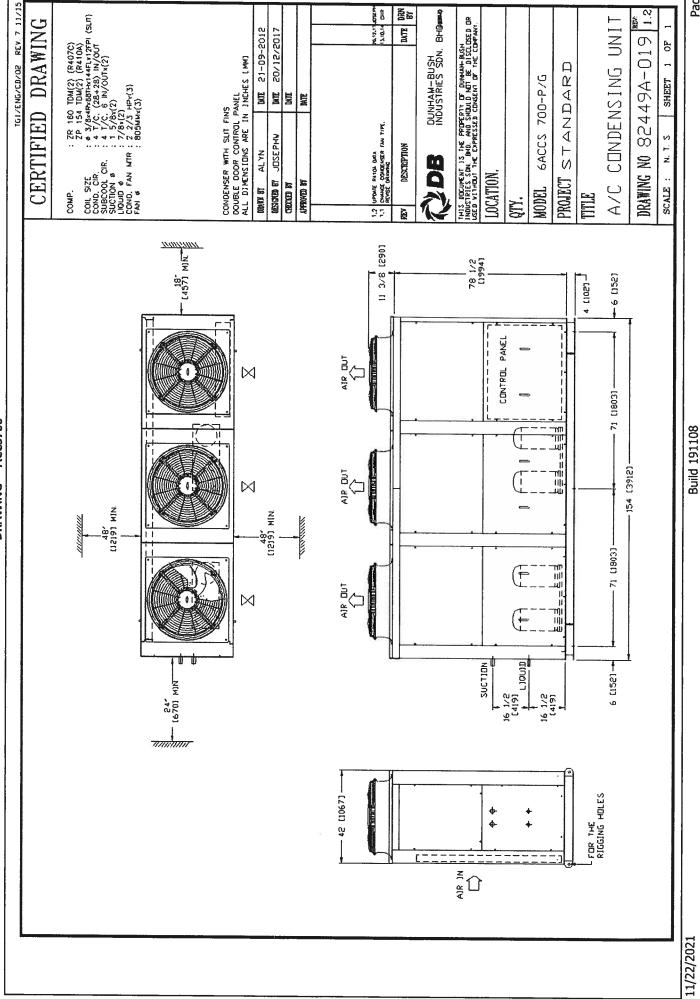
## 37. Dirty Filter Relay & Indication Light

(IEC DOL must be selected)

Indication on filter status shall be provided as maintenance reminder

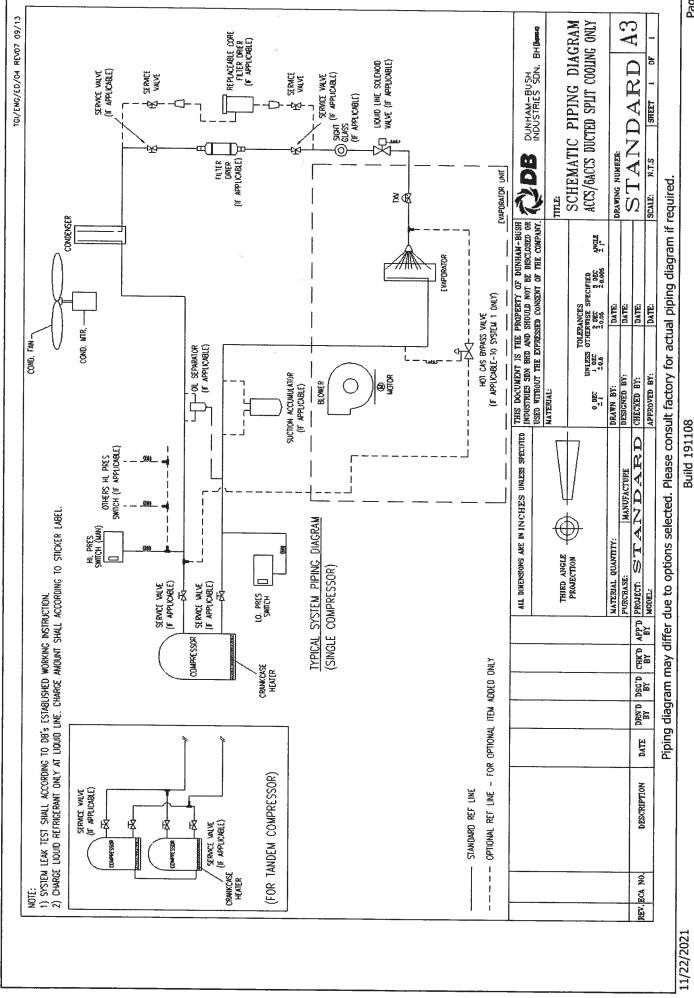
## 38. High and Low Pressure Switches (Adjustable)

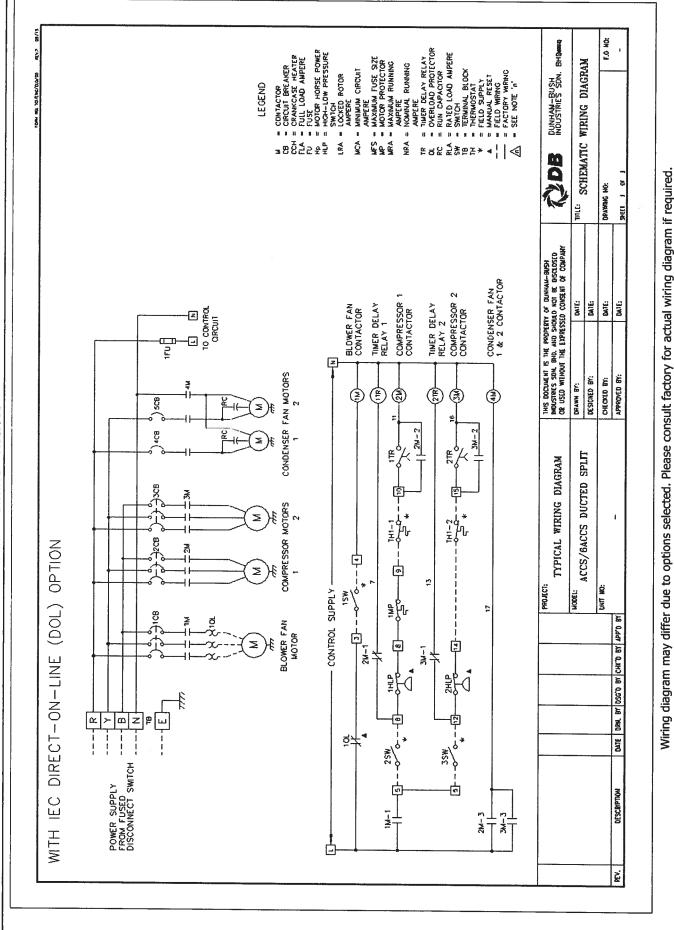
Each compressor is provided with unit mounted adjustable pressure switches to monitor high and low side operating pressure.



DRAWING ACCS700



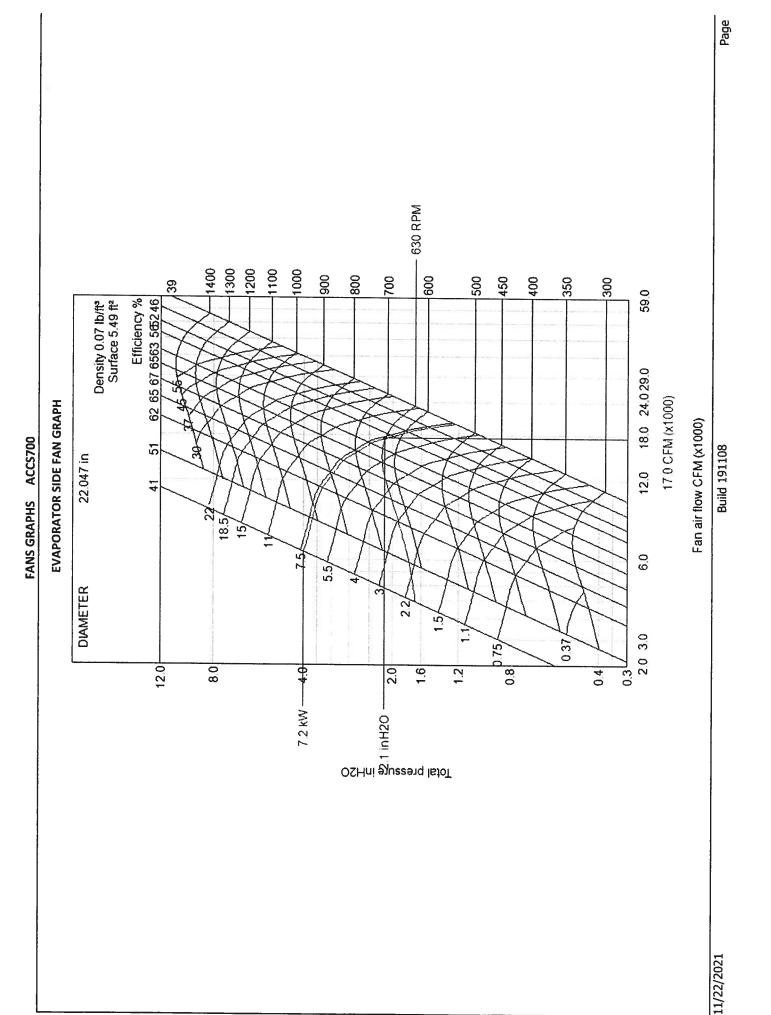




11/22/2021

Build 191108

B21-17957



# **Bid Abstract**

# Memorandum of Evaluation



## **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

December 7, 2021

TO:

for: Dr. Thomas W. Krise, President

\_\_\_\_\_L\_\_ Approved / Disapproved

VIA:

Mr. Randall V. Wiegand, Vice President Administration and Finance

Ms. Abigail Martin, Interim Comptroller\_

FROM:

Ms. Emily G. Gumataotao, Supply Management Administrator

RE:

UOG BID No. B21-17, "PURCHASING OF HVAC EQUIPMENT"

UOG BID No. B21-17 was issued October 22, 2021. There were seventeen (17) prospective bidders that picked up a bid package. Amendment 1 & 2, issued on 10/29/21, Amendment 3 issued on 11/19/21, Amendment 4 issued on 11/22/21, Amendment 5 issued on 11/24/21, and Amendment 6 issued on 12/03/21. Bid opening was held virtually via ZOOM Conference on 12/06/21 at 315pm. Three (3) bidders submitted their proposal on time.

See Bid details below:

Item

Company	Bid offer	QTY	Description
<b>ALL BUSINESS ENTERPRIS</b>	E \$1,456,044.40		
<b>LOCATION UNIT TONS VOLTAG</b>	ETVX		
RFK BUILDING SECOND FLOOR		\$	120,002.50
RFK BUILDING FIRST FLOOR 1			\$107,574.60
RFK BUILDING FIRST FLOOR MA	AIN ENTRANCE 1 15 208 / 2	30	
2 EA			\$67,372.50
RFK BUILDING FIRST FLOOR AV	/ ROOM 1 15 208 / 230 2 EA		PC7 272 50
RFK BUILDING FIRST FLOOR OF	FICES 1 20 200 / 230 2 EA	·· • -	\$67,372.50
10	TICES 1 20 200 / 250 2 EA.	•	\$80,461.60
PIP SECOND FLOOR 1 20 208 / 2	30 2 EA		000 404 00
			\$80,461.60
SCIENCE BUILDING FIRST FLOO	OR 1 40 208 / 230 2 EA		\$107,574.60
SCIENCE BUILDING SECOND FL	OOR 1 40 208 / 230 2 EA		\$107,574.60
SCIENCE BUILDING THIRD FLOO	OR 1 20 208 / 230 2 EA		\$80,461.60
			<del>400,401.00</del>
ENGLISH COMMUNICATION BUIL	LDING CLASSROOM 1 30 2	08	\$983,59.60
/ 230 2 EA.			Ψ903,39.00
COMPUTER CENTER OIT BUILD	ING FIRST FLOOR 1 50 208	37	\$120,002.50
230 2 EA 25			Ψ120,002.00
LECTURE HALL AUDITORIUM 1	20 277 / 460 2 EA 10		\$80,461.60
HSS BUILDING 2 50 277 / 460 2 E			\$240,005.00
HSS BUILDING 1 30 277 / 460 2 E	A. – 15		\$98,359.60
GRAND TOTAL			\$1,456,044.40
<del></del>			•

T: +1 671.735.2925 F: +1 671.735.3010 W: www.uog.edu E: uog.bids@triton.uog.edu
Mailing Address: 303 University Drive UOG Station Mangilao, Guam 96913

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## **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

JM2	\$658,572.00
LOCATION UNIT TONS VOLTAGE TVY	

LOCATION UNIT TONS VOLTAGE TVX	<b>^-</b>
RFK BUILDING SECOND FLOOR 1 50 208 / 230 2 EA 25	\$74,837.72
RFK BUILDING FIRST FLOOR 1 40 208 / 230 2 EA	\$59,870.18
RFK BUILDING FIRST FLOOR MAIN ENTRANCE 1 15 208 /	
230 2 EA	\$22,451.32
RFK BUILDING FIRST FLOOR AV ROOM 1 15 208 / 230 2	#00 4F4 00
EA	\$22,451.32
RFK BUILDING FIRST FLOOR OFFICES 1 20 208 / 230 2 EA 10	\$29,935.09
PIP SECOND FLOOR 1 20 208 / 230 2 EA	\$29,935.09
SCIENCE BUILDING FIRST FLOOR 1 40 208 / 230 2 EA	\$59,870.18
SCIENCE BUILDING SECOND FLOOR 1 40 208 / 230 2 EA	\$59,870.18
SCIENCE BUILDING THIRD FLOOR 1 20 208 / 230 2 EA	\$29,935.09
ENGLISH COMMUNICATION BUILDING CLASSROOM 1 30 208 / 230 2 EA.	\$44,902.64
COMPUTER CENTER OIT BUILIDING FIRST FLOOR 1 50 208 / 230 2 EA 25	\$74,837.73
LECTURE HALL AUDITORIUM 1 20 277 / 460 2 EA 10	\$29,935.09
HSS BUILDING 2 50 277 / 460 2 EA. – 25	\$74,837.73
HSS BUILDING 1 30 277 / 460 2 EA. – 15	\$44,902.64
GRAND TOTAL	\$658,572.00

TONY's WORKSHOP \$584,926.51

LOCATION UNIT TONS VOLTAGE TVX RFK BUILDING SECOND FLOOR 1 50 208 / 230 2 EA 25	\$55,372.32
RFK BUILDING FIRST FLOOR 1 40 208 / 230 2 EA	\$52,856.01
RFK BUILDING FIRST FLOOR MAIN ENTRANCE 1 15 208 / 230 2 EA	\$17,711.51
RFK BUILDING FIRST FLOOR AV ROOM 1 15 208 / 230 2 EA	\$17,711.51
RFK BUILDING FIRST FLOOR OFFICES 1 20 208 / 230 2 EA 10	\$24,262.45
PIP SECOND FLOOR 1 20 208 / 230 2 EA	\$24,262.45
SCIENCE BUILDING FIRST FLOOR 1 40 208 / 230 2 EA	\$52,856.01
SCIENCE BUILDING SECOND FLOOR 1 40 208 / 230 2 EA	\$52,856.01
SCIENCE BUILDING THIRD FLOOR 1 20 208 / 230 2 EA	\$24,262.45
ENGLISH COMMUNICATION BUILDING CLASSROOM 1 30 208 / 230 2 EA.	\$36,503.19

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## **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

COMPUTER CENTER OIT BUILIDING FIRST FLOOR 1 50 208 / 230 2 EA 25	\$55,372.32	
LECTURE HALL AUDITORIUM 1 20 277 / 460 2 EA 10	\$24,262.45	
HSS BUILDING 2 50 277 / 460 2 EA. – 25	\$110,134.64	
HSS BUILDING 1 30 277 / 460 2 EA. – 15	\$36,503.19	$\neg \neg$
GRAND TOTAL	\$584,926.51	

The Procurement Office has reviewed and analyzed the three (3) bid submissions and recommends **TONY's WORKSHOP** for the award. TONY's WORKSHOP bid submission is found to be responsible and responsive. It is in compliance with the bid specifications and UOG Procurement Regulations Article 3.9.3.

## **UOG Attendees**

Emily G. Gumataotao – SUPPLY MGT ADMINISTRATOR Kaimana Terlaje – PROPERTY CONTROL OFFICER

## Vendors:

1.	Nelia Bangayan	All Business Enterprises Corporation	ONLINE ZOOM
2.	Michael Ecalnea	Tony's Workshop	ONLINE ZOOM
3.	Gene Bangayan	All Business Enterprises Corporation	ONLINE ZOOM
4.	Anthony Scragg	JWS	ONLINE ZOOM

Award is subject to availability of funds.
Attachment: Bid abstract analysis

CC:

Procurement Files / FMS





Consolidated Procurement Office

### ABSTRACT ANALYSIS UOG IFB BID NO. B21-17

Title: PURCHASING OF HVAC EQUIPMENT

Date Issued: 10/22/2021 Date/Time Opened: 12/06/2021/ 3:15 p.m.

Amendment 3 11/19/2021, Amendment 2 10/29/2021, Amendment 3 11/19/2021, Amendment 4 11/22/2021, Amendment 5 11/24/2021, & Amendment 6 12/03/2021

This Bid is requested for: Lowest Responsive and Responsible Bidder

	VENDORS/BIDDERS		
	ALL BUSINESS ENTERPRISE	JWS	TONY'S WORKSHOP
Date Bid Submitted	12/06/2021	12/06/2021	12/06/2021
Time Bid Submitted	11:31	11:33	1:21 PM
Business License	X	NOT INCLUDED	NOT INCLUDED
Contact for Contract Administration (B)	X	X	X
Bidder's Qualifications (C)	X	X	X
BID SECURITY (D)	CC - \$218,410.00	CC - \$98,785.80	88
Major Shareholder Affidavit (E)	X	X	X
Non-Collusion Affidavit (F)	X	X	X
Gratuities, Kickbacks Favors (G)	X	X	X
Ethical Standards (H)	X	X	X
DOL Wage Determination (I)	X	X	X
Contingent Fees (J)	X	X	$\frac{\hat{x}}{\hat{x}}$
Amendment 1	X	X	X
Amendment 2	X	X	X
Amendment 3	X	X	X
Amendment 4	X	X	X
Amendment 5	X	X	X
Amendment 6	X	X	X
Table 1.0			
RFK BUILDING SECOND FLOOR	\$120,002.50	\$74,837.72	\$55,372.32
RFK BUILDING FIRST FLOOR	\$107,574.60	\$59,870.18	\$52,856.01
RFK BUILDING FIRST FLOOR MAIN ENTRANCE	\$67,372.50	\$22,451.32	\$17,711.51
RFK BUILDING FIRST FLOOR AV ROOM	\$67,372.50	\$22,451.32	\$17,711.51
RFK BUILDING FIRST FLOOR OFFICES	\$80,461.60	\$29,935.09	\$24,262.45
PIP SECOND FLOOR	\$80,461.60	\$29,935.09	\$24,262.45
SCIENCE BUILDING FIRST FLOOR	\$107,574.60	\$59,870.18	\$52,856.01
SCIENCE BUILDING SECOND FLOOR	\$107,574.60	\$59,870.18	\$52,856.01
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COMPUTER CENTER OIT BUILIDING FIRST FLOR	\$120,002.50	\$74,837.73	\$55,372.32
LECTURE HALL AUDITORIUM	\$80,461.60	\$29,935.09	\$24,262.45
HSS BUILDING	\$240,005.00	\$74,837.73	\$110,134.64
HSS BUILDING	\$98,359.60	\$44,902.64	\$36,503.19
GRAND TOTAL	\$1,456,044.40	\$658,572.00	\$584,926.51

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Emily G. Gumataotao

Kaimana K. Terlaje

#### **ADMINISTRATION & FINANCE**

Consolidated Procurement Office

**ONLINE ZOOM** 

ONLINE ZOOM

DELIVERY	18-20 WEEKS	9-12 WEEKS	24 WEEKS
TABLE 2.0			
Service for Maintenance and upkeep	\$51,000.00	\$1,275.00 QUARTER \$5,100.00 ANNUAL	\$26,000.00 QUARTER
Services for disposal	\$11,250.00	INCLUSIVE	\$54,148.63
Replacement/trade in program	TO BE DISCUSSED UPON AWARD.	1 YEAR WARRANTY	\$196,766.42
Attendees: (Print name 8	sign opposite the firm you rep	resent)	
Company/Firm Nam	ne Represe	entative (Print Name)	Signature
All Business Enterprises Corporation	on Nelia Bangaya	n	ONLINE ZOOM
Tony's Workshop	Michael Ecalne		ONLINE ZOOM
All Business Enterprises Corporation	on Gene Bangayan		ONLINE ZOOM
JWS	Anthony Scragg		ONLINE ZOOM
Tabulators:		<u> </u>	OTTENTE ZOOM

Property Control Officer

SMA

### **B21-17 ANALYSIS MEMO TO PRES-1**

Final Audit Report

2021-12-13

Created:

2021-12-13

By:

Christine Mabayag (ckamm@triton.uog.edu)

Status:

Signed

Transaction ID:

CBJCHBCAABAAAfGtXgqice31osmahUMqtvIn9UD26azq

### "B21-17 ANALYSIS MEMO TO PRES-1" History

- Document created by Christine Mabayag (ckamm@triton.uog.edu) 2021-12-13 10:15:18 PM GMT- IP address: 168.123.224.248
- Document emailed to Anita Borja Enriquez (abe@triton.uog.edu) for signature 2021-12-13 10:17:21 PM GMT
- Email viewed by Anita Borja Enriquez (abe@triton.uog.edu) 2021-12-13 11:01:51 PM GMT- IP address: 168.123.224.214
- Ocument e-signed by Anita Borja Enriquez (abe@triton.uog.edu)

  Signature Date: 2021-12-13 11:02:35 PM GMT Time Source: server- IP address: 168.123.224.214
- Agreement completed.
  2021-12-13 11:02:35 PM GMT



### BERMAN LAW FIRM

Attorneys at Law

111 W Chalan Santo Papa Ste 503
Hagatña, Guam 96910
Tele. 671-477-2778
Fax 671-477-4366
Website: www.pacificlawyers.law

Email: djberman@pacificlawyers.law

December 8, 2021

VIA EMAIL [uog.bids@triton.uog.edu];

AND, CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Emily G. Gumataotao Supply Management Administrator University of Guam 303 University Drive UOG Station Mangilao, Guam 96913

Re: Freedom of Information Act Request for Documents
UOG Invitation for Bid No. B21-17: Purchase HVAC Equipment
Award dated December 7, 2021

To Whom It May Concern:

This is a Freedom of Information Act and Sunshine Law Request.

Your response is due within four (4) days. 5 G.C.A. §10111.

I request that both you and the University of Guam ("UOG") produce a copy of every document, record, letter, notes, e-mail or any other wiring that constitutes the following:

- 1. The bid submissions and all correspondence and documents of all kind and nature related to bid submissions for the bidders for IFB No. B21-17.
- 2. All documents that show or relate to the actions of UOG to score, evaluate and rank the No. 1, No. 2, No. 3 and No. 4 bidder.
- 3. Any correspondence to and from all bidders as concerns the documents in paragraphs 1 and 2 above.



Emily G. Gumataotao Supply Management Administrator University of Guam December 8, 2021 Page 2

Failure to cooperate and produce the required documents may expose you to civil liability for not complying with the law. 5 G.C.A. § 10112 (\$1,000 fine payable by the employee, not the Government).

Failure to provide the documents requested could be considered criminal, which creates an inherent conflict of interest that would prevent the Attorney General from intervening on your behalf. 5 G.C.A. § 10112(c).

Unless I receive the requested documents pursuant to applicable law on or before **December 15**, **2021**, we will assume that you are unwilling to comply with the law unless and until ordered to do so by a court of law under the threat of contempt or criminal sanction.

If the request is not satisfied, we will be constrained to file an expedited proceeding with the Court to seek an <u>in camera</u> review of our petition. In addition to a civil fine, we will request that our costs of court and attorneys' fees be awarded to us and against you for having to take this extraordinary and unnecessary measure. 5 G.C.A. § 10112(d).

Please be governed accordingly.

Sincerely,

Daniel J. Berman

# Certification of Procurement Record

#### CERTIFICATION of COMPLETED PROCUREMENT RECORD

Instructions: After ascertaining the statement's accuracy and truthfulness, the agency's procurement officer (director or head of agency) must sign the Certification below to indicate that the agency has kept a complete procurement record of all documents required by law. The checklist below is provided to ensure that the record is complete, and must be filled out by the procurement officer or administrator. The checklist is comprised of every item that is required by law for an invitation for bid (IFB) or a request for proposal (RFP), and therefore every item, except as noted below, must be checked for the resulting contract to be considered legally sufficient. Please assemble the procurement record in the order stated below and place it in a three-ring binder, with visible tabs for each of the items below appearing in numerical order.

IFB/RFP No:	B21-17	_ Contractor:	TONY's WORKSHOP
X	1. Published notice	e in newspaper of	general circulation
X	2. Procurement package (IFB or RFP) issued to bidders or offerors		
X	3. Log of distribution of procurement package		
X	4. Amendments to IFB or RFP, if any were issued		
X	5. Logs of distribution of amendments to IFB or RFP, but only if amendments were issued		
X	6. Minutes or summary of pre-submission conferences, but only if conferences were held		
X	7. Logs of attended	es of pre-submissio	on conferences, but only if conferences were held
K	8. Written question	ns from bidders or	offerors, but only if any questions were received
X			
X	10. Proof that writ	ten answers were ns were received	provided to all potential bidders or offerors, but
X	11. Log of bids or r	egistry of proposa	ls received
X	12. Each bid or pro	posal received	
X	13. Evaluation of panalyzed, but may	proposals or analys be)	sis of bids (bids are not required by law to be
X	14. Tabulation of e recommended)	valuations or ana	lysis (tabulations are not required by law but
X	15. Letters to bidd of ranking and lett	ers concerning out er to best qualifie	come of bid; for offerors, letters informing them d offeror inviting negotiations
			negotiations (only required for RFP's)
X	17. Notice of intent	t to award	
X	18. Any and all cor	nmunications fron	n or to anyone concerning any part of ITB or RFP
	19. Contract, including all draft versions		
×	20. Bid protests, if any, and responses thereto		
☐ 21. Any determination required by law as may fit the circumstances			
CERTIFICATION: Pursuant to 5 G.C.A. §5250, I hereby certify under penalty of perjury that I am the procurement officer responsible for administering the solicitation of the acquisition referenced above, and that I have caused to be prepared and now maintain a full and complete record of the procurement as required by law.			
		Signature:	D+0
		Print Name:	Emily Gumataotao Date: 12/15/21

# **Notice of Award**

# Purchase Order

# Sedfrey Linsangan Complaint



On Mon, 6 Dec 2021 at 10:10, GPE INC < guampacific@gmail.com > wrote:

----- Forwarded message -----

From: **GPE INC** <<u>guampacific@gmail.com</u>>

Date: Mon, 6 Dec 2021 at 10:05 Subject: Notice of Protest, Bid 21-17 To: <uogbids@triton.uog.edu>

Dear Ms. Gumataotao and Procurement Team
I am respectfully filing a protest on the subject Bid due to violations of Buy Americana Act Law and Executive Order of President Biden on Made in America Act.

My protest is due to the imposition of the 15% Bid bond which is a Guam law. The bid bond is inconsistent with the intent and purpose of Section 1 and Section 3 of President Biden's Executive Order. The funds being used is from CARE'S Act which is a federal financial assistance award.

Federal Law supersedes Guam law, therefore Bid bond should not be implemented because it substantially burdens American small business owners, workers and manufacturers. We participated on Military bids here for the last 34 years and the Navy and US Air Force do not require Bid bonds.

Stay of Procurement is warranted due to this Notice of Protest. Please take note that I only received the response last Friday.

Very Respectfully, Sedfrey M. Linsangan President GPEINC

Guam Pacific Enterprise, Inc. Tel: (671) 649-6994/7/8



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immediately by email if you have received this email by mistake and delete this email from your system. If you are not the intended recipient, you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.



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Suite 401 DNA Building 238 Archbishop Flores St. Hagåtña, Guam 96910



### **FAX**

	Ms. Emily G. Gumataotao Supply Management Administrator University of Guam UOG Station Mangilao, Guam 96923 Phone: (671) 735-2925	From:	Benjamin J.F. Cruz Hearing Officer Office of Public Accountability
To:	Fax: (671) 735-3010 Email: eggumataotao@triton.uog.edu; uog.bids@triton.uog.edu		
	Mr. Anthony R. Camacho, Esq. Legal Counsel University of Guam UOG Station Mangilao, Guam 96923 Email: arcamacho@triton.uog.edu	Pages:	9 (including cover page)
	Mr. Sedfrey Linsangan President	Date:	December 9, 2021
CC:	Guam Pacific Enterprise, Inc. Phone: (671) 649-6994/7/8 Email: guampacific@gmail.com	Phone: Fax:	(671) 475-0390 x. 204 (671) 472-7951
Re:	OPA-PA-21-015 Notice of Receipt of Appe	ea;1	
	☐ For Review ☐ Please Comment	✓ Please Reply	☐ Please Recycle
Comm	ents:		
	acknowledge receipt of this transmittal by re-sending and initials of receiver.	this cover page along w	ith your firm or agency's receipt stamp,
		Thank you,	
		Jerrick Herr	nandez, Auditor
	8.	jhernandez(	@guamopa.com

This facsimile transmission and accompanying documents may contain confidential or privileged information. If you are not the intended recipient of this fax transmission, please call our office and notify us immediately. Do not distribute or disclose the contents to anyone. Thank you.



### OFFICE OF PUBLIC ACCOUNTABILTY

Suite 401 Pacific News Building, 238 Archbishop Flores St., Hagåtña, Guam 96910 Phone: (671) 475-0390 / FAX: (671) 472-7951

December 9, 2021

Ms. Emily G. Gumataotao Supply Management Administrator University of Guam UOG Station Mangilao, Guam 96923

VIA FACSIMILE: (671) 735-3010

Re: Notice of Receipt of Appeal – OPA-PA-21-015

Dear Ms. Gumataotao,

Please be advised that Guam Pacific Enterprises Inc. (hereinafter referred to as "GPE INC" filed an appeal with the Office of Public Accountability (OPA) on December 8, 2021, regarding the University of Guam's (UOG) bid UOG-IFB-21-17 for Purchasing HVAC Equipment. OPA has assigned this appeal case number OPA-PA-21-015.

Immediate action is required of UOG pursuant to the Rules of Procedure for Procurement Appeals, found in Chapter 12 of the Guam Administrative Regulations (GAR). Copies of the rules, the appeal, and all filing deadlines are available at OPA's office and on its website at <a href="https://www.opaguam.org">www.opaguam.org</a>. The first eight pages of the notice of appeal filed with OPA is enclosed for your reference.

Please provide the required notice of this appeal to the relative parties with instructions that they should communicate directly with OPA regarding the appeals. You are also responsible for giving notice to the Attorney General or other legal counsel for your agency. Promptly provide OPA with the identities and addresses of interested parties and a formal entry of appearance by your legal counsel.

Pursuant to 2 GAR, Div. 4, Ch. 12, §12104(3), the submission of one complete copy of the procurement record for the procurement solicitation above, as outlined in Title 5, Chapter 5, §5249 of the Guam Code Annotated is required no later than **Thursday**, **December 16**, **2021**, five work days following this Notice of Receipt of Appeal. We also request one copy of the Agency Report for each of the procurement solicitations cited above, as outlined in 2 GAR, Div. 4, Chap. 12, §12105, by **Thursday**, **December 23**, **2021**, ten work days following receipt of this notice.

When filing all other required documents with our office, please provide one original and one copy to OPA (electronic filings will be acceptable), and serve a copy to GPE INC. Although the Guam Procurement Law and Regulations require only one copy of the procurement record, OPA respectfully asks that UOG provide one original and one electronic file of the said record, which

will be distributed as follows: Copy-1: Master File; and Copy-2: Public Auditor and/or Hearing Officer.

Thank you for your prompt attention to this matter. Please contact Jerrick Hernandez at 475-0390 ext. 204 or <a href="mailto:jhernandez@guamopa.com">jhernandez@guamopa.com</a> should you have any questions regarding this notice.

Sincerely,

Benjamin J.F. Cruz Public Auditor

Enclosure: First Six Pages of the Notice of Appeal – OPA-PA-21-015

Cc: Sedfrey M. Linsangan, GPE Inc. President



## Appendix A: Notice of Appeal Form PROCUREMENT APPEAL

### PART I- To be completed by OPA

	In the Appeal of NOTICE OF APPEAL		
	Guam Pacific Ent. Inc. ) (Name of Company), APPELLANT ) Docket No. OPA-PA		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PART II- Appellant Information		
	Name: Gram Pacific Ent. Inc. Mailing Address: P.O. BOX 23128 Ba: Frigada Gram 9692 Harmon Gram		
	Email Address:  Daytime Contact No:  Fax No.: $ \frac{g \cdot g \cdot g \cdot g \cdot g \cdot f \cdot c \cdot Q \cdot g \cdot mail \cdot com}{649 \cdot 6997 - 8 - 4} $		
	PART III- Appeal Information		
	A) Purchasing Agency: University of Gram		
	B) Identification/Number of Procurement, Solicitation, or Contract: <u>IFB 21-17</u>		
	C) Decision being appealed was made on Chief Procurement Officer Director of Public Works Head of Purchasing Agency		
	Note: You must serve the Agency checked here with a copy of this Appeal within 24 hours of filing.		
	D) Appeal is made from:  (Please select one and attach a copy of the Decision to this form)  Decision on Protest of Method, Solicitation or Award  Decision on Debarment or Suspension  Decision on Contract or Breach of Contract Controversy  (Excluding claims of money owed to or by the government)		

E) Names of Competing Bidders, Offerors, or Contractors known to Appellant:
Tony's Workshop
JWS Gram
All Business Entagrise
Guam Pacific Ent. Inc.

#### PART IV- Form and Filing

In addition to this form, the Rules of Procedure for Procurement Appeals require the submission together with this form of additional information, including BUT NOT LIMITED TO:

- 1. A concise, logically arranged, and direct statement of the grounds for appeal;
- 2. A statement specifying the ruling requested;
- 3. Supporting exhibits, evidence, or documents to substantiate any claims and the grounds for appeal unless not available within the filing time in which case the expected availability date shall be indicated.

Note: Please refer to 2 GAR § 12104 for the full text of filing requirements.

#### PART V- Declaration Re Court Action

Pursuant to 5 GCA Chapter 5, unless the court requests, expects, or otherwise expresses interest in a decision by the Public Auditor, the Office of Public Accountability will not take action on any appeal where action concerning the protest or appeal has commenced in any court.

The undersigned party does hereby confirm that to the best of his or her knowledge, no case or action concerning the subject of this Appeal has been commenced in court. All parties are required to and the undersigned party agrees to notify the Office of Public Accountability within 24 hours if court action commences regarding this Appeal or the underlying procurement action.

Submitted this 2 day of Dec 2021

By: Gram Pacific Ent. Inc.

or

Appellant's Duly Authorized Representative (Address) Harmon 16 cam



# Appendix D: Hearing Request/Waiver Form PROCUREMENT APPEAL

In the Appeal of  (Name of Company), APPELLANT  Geam Pacific Ent. Inc.	) ) ) HEARING ) REQUEST/WAIVER ) ) Docket No. OPA-PA )	
Please select one:		
Pursuant to 2 GAR § 12108(a), the hearing on the appeal stated above.	e undersigned party does hereby request a	
Pursuant to 2 GAR § 12108(a), the undersigned party does hereby waive his/her right to a hearing and is submitting the appeal stated above on record without a hearing.		
Submitted this <b>8</b> day of <b>Dec</b> , 20 <b>2</b>		
By: (Please select one)		
APPELLANT		
Chief Procurement Officer		
Director of Public Works		
Head of Purchasing Agency		
Signature	Print Name	

Statement of the grounds for appeal

I raised the 15%. Bid bond requirement because VOG confirmed that federal financial assistance award will be used to purchase the HVAC equipments. Please see Exh 5, dated Nov. 5, 2021. How ever I only got a regoonse on Dec. 3, 2021 after 5:00 pm which is a Friday and Bid is already on Monday (Da.6) Please see Exh. 13. I also followed up with them why my bid bond concern is not being answered. Please see Exh. 15 and 16

I filed a protest on Dec. 6 in the morning. I received a decision on the same day, around 3:05 pm. Please see Exh. 8
(Protest) and Exh. 9 (VOG Decision on Protest)

In my Protest, I am requesting a Stay of Procurement but instead was criticised by the Procurement that my Protest has deficiencies. Please see Exh. 10 on my reply to their decision. They response is a Protest Decision beca-se they are denying my protest even they do not regard it as a protest. They are doing it to go ahead with the scheduled Bid Borning on Dec. 6. There's still sufficient time to issue a Stay of Procurement but they did not adhere to the Procurement Cha. 5 Law on the process of handling the grotest.

My other concern is the lowest biddes did not submit the literature or specs for his offer. It is not being evaluated yet but UOG issued already a Notice

of Intent of Award in the same dayof the bid. Please See Exh. 17. How could they award it on the Same day Since It Could take awark to examine all the brochung or literature for the 15 units and also if it complies with Buy Ame tican Act? Then they have to evaluate too the offer of the 2 bidders that participated before making a determi nation.

I am processing a ruling that 15%.

Bid bond which is a Local Law does not apply to Federal Financial assistance awards.

Ghura was not implementing 15%. Bid bond for 30 years until the Procurement offices.

Mr. Lastimosa ratived then the new one Changes the Policy which is wrong and a rebid.

3

Duri 1.4 ARTINA

### **RE: Documents Needed**

Gumataotao, Emily <eggumataotao@triton.uog.edu>

Thu 12/16/2021 1:15 PM

To: Cynthia Guerrero <cguerrero@triton.uog.edu>

§ 5 attachments (4 MB)

IFB B21-17 COMMUNICATION LOG.pdf; Response to Protest Email - GPEa.pdf; Response from GPE.pdf; OPA-PA-21-015 Notice of Appeal\_B21-17.pdf; Response to Protest Email - GPEa.pdf;

#### Cyn,

- 1) Log attached
- 2) Emails and responses to email on protest
- Copy of appeal

### ~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,

gpe



Respectfully,

## Emily G. Gumatactac

SUPPLY MANAGEMENT ADMINISTRATOR

PROCUREMENT | ADMIN & FINANCE

Office: 671-735-2925 Fax: 671-735-3010

eggumataotao@triton.uog.edu

[mail to: gumata ota oemily g@triton.uog.edu % Od Procurement of fice @triton.uog.edu] Procurement of fice @triton.uog.edu and the first of the fi

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From: Cynthia Guerrero

Sent: Wednesday, December 15, 2021 1:24 PM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu> Cc: Camacho, Anthony <arcamacho@triton.uog.edu>

**Subject:** Documents Needed

Emily:

I need the following documents to complete the package:

- 1. Determination of Need
- 2. Log of Communication
- 3. Copies of Communication
- 4. IFB Bid Packet
- 5. Submission by Vendors
- 6. Bid Abstract
- 7. Memorandum of Evaluation
- 8. Certification of Procurement Record

- 9. Notice of Award
- 10. Purchase Order
- 11. Sedfrey Linsangan Protest
- 12. Protest Decision

Si Yu'os ma'åse',



Cynthia T. Guerrero, MPA

Office of the Legal Counsel

Office: +1 (671) 735-2992

cguerrero@triton.uog.edu

https://www.uog.edu/administration/office-of-the-president/legal-counsel

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Re: Notice of Protest, Bid 21-17

GPE INC <guampacific@gmail.com>

Mon 12/6/2021 3:38 PM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you for your reply. Please forward me a copy of Section 9.2.3.1 and Section 9.2.3.3 because it is not provided in the IFB. Whether my protest does not comply with your standard it is still a protest and you were notified. Only OPA or the court will be the right body to make that determination. But I am willing to do it, however, Stay of Procurement is warranted.

Your procurement people did not address my complaint which I emailed to them ever since. Only last Friday, December 3, I received the response around 5.00 pm plus after working hours. They knew there is a question but they did not extend the bid.

If the bid was not postponed and Stay of Procurement is not issued then I do not need to comply with your regulations. I will just wait for your Protest decision after 14 days.. The Executive Order of President Biden is 14005(Section 1 and 3) which you have a copy from my OPA case.



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On Mon, 6 Dec 2021 at 15:05, UOG Procurement Bids < <a href="mailto:uog.edu">uog.bids@triton.uog.edu</a>> wrote: Håfa Adai & Good Afternoon Mr. Linsangan,

Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest. Until you GPE does so, UOG will treat this matter as a complaint and not a Protest. Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, on behalf of UOG's President, there is no merit to your complaint. Specifically, it appears that you are assuming that the President's Biden's Executive Order applies to UOG-IFB-21-17. However, you do not cite any specific portions of said Executive Order or other federal law specifically making said Executive Order applicable to UOG-IFB-21-17. Further, Guam Procurement Law specifically requires the 15% Bid Bond. Bid security shall be required for all competitive sealed bidding for the procurement of supplies or services when the total price is estimated to exceed Twenty-Five Thousand Dollars (\$25,000.00). 5 G.C.A. §5212(a). Here, the price of the items being solicited for in UOG-IFB-21-17 will likely exceed the amount of Twenty-Five Thousand Dollars (\$25,000.00). Further, Bid security shall be in an amount equal to fifteen percent (15%) of the total amount bid. 5 G.C.A. §5212(b). There is no exception in the aforementioned Guam Procurement Law for solicitations made by Public Corporations, such as UOG, that are federally funded. Finally, if you are concerned that there is a difference between the manner in which the U.S. Navy and the U.S. Air force and UOG conduct their procurement actions, be advised that Federal Procurement Laws and the Federal Acquisition Regulations apply to the U.S. Navy and U.S. Air Procurement, and Guam

Procurement Law and UOG's Procurement Regulations apply to UOG procurements. For UOG-IFB-21-17, UOG must comply with Guam Procurement Law and UOG's Procurement Regulations to include the requirement for the 15% Bid Bond.

Further, you are hereby ON NOTICE that if GPE fails to provide the required Bid Bond for UOG-IFB-21-17, UOG must reject GPE's bid in accordance with 5 G.C.A. §5212(e).

Based on the foregoing, your complaint concerning the 15% Bid Bond required by UOG-IFB-21-17 is hereby DENIED.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

# **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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From: GPE INC <<u>guampacific@gmail.com</u>>
Sent: Monday, December 6, 2021 10:11 AM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please confirm receipt of this email. ( Notice of Protest )

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<uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please confirm receipt of this email. ( Notice of Protest )

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On Mon, 6 Dec 2021 at 10:10, GPE INC <guampacific@gmail.com> wrote:

----- Forwarded message -----

From: **GPE INC** < guampacific@gmail.com >

Date: Mon, 6 Dec 2021 at 10:05 Subject: Notice of Protest, Bid 21-17 To: <uogbids@triton.uog.edu>

Dear Ms. Gumataotao and Procurement Team

I am respectfully filing a protest on the subject Bid due to violations of Buy Americana Act Law and Executive Order of President Biden on Made in America Act.

My protest is due to the imposition of the 15% Bid bond which is a Guam law. The bid bond is inconsistent with the intent and purpose of Section 1 and Section 3 of President Biden's Executive Order. The funds being used is from CARE'S Act which is a federal financial assistance award.

Federal Law supersedes Guam law, therefore Bid bond should not be implemented because it substantially burdens American small business owners, workers and manufacturers. We participated on Military bids here for the last 34 years and the Navy and US Air Force do not require Bid bonds.

Stay of Procurement is warranted due to this Notice of Protest. Please take note that I only received the response last Friday.

Very Respectfully, Sedfrey M. Linsangan President GPEINC

Guam Pacific Enterprise, Inc. Tel: (671) 649-6994/7/8



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--

Guam Pacific Enterprise, Inc. Tel: (671) 649-6994/7/8



Re: Notice of Protest, Bid 21-17

GPE INC <guampacific@gmail.com>

Fri 12/10/2021 11:24 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you for your response. Happy Holidays too to all of you. This is to confirm receipt of your email but it is already in the OPA for their determination.

On Fri, 10 Dec 2021 at 11:14, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning Mr. Lingsangan,

Attached herein is the portion of the UOG Procurement Regulations containing Section 9.2.3.1 and Section 9.2.3.3 that you requested and which I cited in my earlier email to you. Be advised that your prior emails did not constitute a protest under UOG's Procurement Regulations, as you had yet to file a protest in accordance with those regulations. Further, concerning your allegations that your emails are a protest and that the automatic stay is applicable, be advised that pursuant to Section 9.2.5, UOG Procurement Regulations, only a filed protest, and a protest that is filed within fourteen (14) working days after the protestor knew or should have known of the facts giving rise to the protest will trigger the automatic stay. As stated above, you had not filed a protest at the time your email was sent in accordance with UOG's Procurement Regulations. Further, you knew or should have known that UOG-IFB-21-17 required the bid bond the day you received the IFB which was more than fourteen (14) working days ago. Pursuant to Section 9.2.3.1, UOG Procurement Regulations, UOG is prohibited from considering a protest filed more than fourteen (14) working days after the protestor knew or should of known of the facts giving rise to the protest. Hence, your email dated December 6, 2021 did not trigger the automatic stay.

~ Merry Christmas & Happy Holidays ~

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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From: GPE INC <guampacific@gmail.com>
Sent: Monday, December 6, 2021 3:38 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you for your reply. Please forward me a copy of Section 9.2.3.1 and Section 9.2.3.3 because it is not provided in the IFB. Whether my protest does not comply with your standard it is still a protest and you were notified. Only OPA or the court will be the right body to make that determination. But I am willing to do it , however, Stay of Procurement is warranted .

Your procurement people did not address my complaint which I emailed to them ever since . Only last Friday ,December 3, I received the response around 5.00 pm plus after working hours. They knew there is a question but they did not extend the bid .

If the bid was not postponed and Stay of Procurement is not issued then I do not need to comply with your regulations. I will just wait for your Protest decision after 14 days.. The Executive Order of President Biden is 14005( Section 1 and 3) which you have a copy from my OPA case.



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On Mon, 6 Dec 2021 at 15:05, UOG Procurement Bids < <a href="mailto:uog.bids@triton.uog.edu">uog.bids@triton.uog.edu</a> wrote: Håfa Adai & Good Afternoon Mr. Linsangan,

Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest. Until you GPE does so, UOG will treat this matter as a complaint and not a Protest. Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, on behalf of UOG's President, there is no merit to your complaint. Specifically, it appears that you are assuming that the President's Biden's Executive Order applies to UOG-IFB-21-17. However, you do not cite any specific portions of said Executive Order or other federal law specifically making said Executive Order applicable to UOG-IFB-21-17. Further, Guam Procurement Law specifically requires the 15% Bid Bond. Bid security shall be required for all competitive sealed bidding for the procurement of supplies or services when the total price is estimated to exceed Twenty-Five Thousand Dollars (\$25,000.00). 5 G.C.A. §5212(a). Here, the price of the items being

solicited for in UOG-IFB-21-17 will likely exceed the amount of Twenty-Five Thousand Dollars (\$25,000.00). Further, Bid security shall be in an amount equal to fifteen percent (15%) of the total amount bid. 5 G.C.A. §5212(b). There is no exception in the aforementioned Guam Procurement Law for solicitations made by Public Corporations, such as UOG, that are federally funded. Finally, if you are concerned that there is a difference between the manner in which the U.S. Navy and the U.S. Air force and UOG conduct their procurement actions, be advised that Federal Procurement Laws and the Federal Acquisition Regulations apply to the U.S. Navy and U.S. Air Procurement, and Guam Procurement Law and UOG's Procurement Regulations apply to UOG procurements. For UOG-IFB-21-17, UOG must comply with Guam Procurement Law and UOG's Procurement Regulations to include the requirement for the 15% Bid Bond.

Further, you are hereby ON NOTICE that if GPE fails to provide the required Bid Bond for UOG-IFB-21-17, UOG must reject GPE's bid in accordance with 5 G.C.A. §5212(e).

Based on the foregoing, your complaint concerning the 15% Bid Bond required by UOG-IFB-21-17 is hereby DENIED.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

## **UOG Procurement**

Office: 671-735-2925
Fax: 671-735-3010
uog.bids@triton.uog.edu

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From: GPE INC <guampacific@gmail.com>
Sent: Monday, December 6, 2021 10:11 AM

To: Gumataotao, Emily < eggumataotao@triton.uog.edu >; UOG Procurement Bids

<uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Please confirm receipt of this email. (Notice of Protest)



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On Mon, 6 Dec 2021 at 10:10, GPE INC <guampacific@gmail.com > wrote:

------ Forwarded message ------

From: **GPE INC** <<u>guampacific@gmail.com</u>>

Date: Mon, 6 Dec 2021 at 10:05
Subject: Notice of Protest, Bid 21-17
To: <uogbids@triton.uoq.edu>

Dear Ms. Gumataotao and Procurement Team

I am respectfully filing a protest on the subject Bid due to violations of Buy Americana Act Law and Executive Order of President Biden on Made in America Act.

My protest is due to the imposition of the 15% Bid bond which is a Guam law. The bid bond is inconsistent with the intent and purpose of Section 1 and Section 3 of President Biden's Executive Order. The funds being used is from CARE'S Act which is a federal financial assistance award.

Federal Law supersedes Guam law, therefore Bid bond should not be implemented because it substantially burdens American small business owners, workers and manufacturers. We participated on Military bids here for the last 34 years and the Navy and US Air Force do not require Bid bonds.

Stay of Procurement is warranted due to this Notice of Protest. Please take note that I only received the response last Friday.

Very Respectfully, Sedfrey M. Linsangan President GPEINC



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Re: Notice of Protest, Bid 21-17

GPE INC <guampacific@gmail.com>

Fri 12/10/2021 11:24 AM

To: UOG Procurement Bids <uog.bids@triton.uog.edu>

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

Thank you for your response. Happy Holidays too to all of you. This is to confirm receipt of your email but it is already in the OPA for their determination.

On Fri, 10 Dec 2021 at 11:14, UOG Procurement Bids < uog.bids@triton.uog.edu > wrote:

Håfa Adai & Good Morning Mr. Lingsangan,

Attached herein is the portion of the UOG Procurement Regulations containing Section 9.2.3.1 and Section 9.2.3.3 that you requested and which I cited in my earlier email to you. Be advised that your prior emails did not constitute a protest under UOG's Procurement Regulations, as you had yet to file a protest in accordance with those regulations. Further, concerning your allegations that your emails are a protest and that the automatic stay is applicable, be advised that pursuant to Section 9.2.5, UOG Procurement Regulations, only a filed protest, and a protest that is filed within fourteen (14) working days after the protestor knew or should have known of the facts giving rise to the protest will trigger the automatic stay. As stated above, you had not filed a protest at the time your email was sent in accordance with UOG's Procurement Regulations. Further, you knew or should have known that UOG-IFB-21-17 required the bid bond the day you received the IFB which was more than fourteen (14) working days ago. Pursuant to Section 9.2.3.1, UOG Procurement Regulations, UOG is prohibited from considering a protest filed more than fourteen (14) working days after the protestor knew or should of known of the facts giving rise to the protest. Hence, your email dated December 6, 2021 did not trigger the automatic stay.

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Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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Sent: Monday, December 6, 2021 3:38 PM

To: UOG Procurement Bids < uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.]

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Further, you are hereby ON NOTICE that if GPE fails to provide the required Bid Bond for UOG-IFB-21-17, UOG must reject GPE's bid in accordance with 5 G.C.A. §5212(e).

Based on the foregoing, your complaint concerning the 15% Bid Bond required by UOG-IFB-21-17 is hereby DENIED.

Si Yu'os ma'ase' & Have a nice day!,



Respectfully,

## **UOG Procurement**

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu

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From: GPE INC <<u>guampacific@gmail.com</u>>
Sent: Monday, December 6, 2021 10:11 AM

To: Gumataotao, Emily < eggumataotao@triton.uog.edu >; UOG Procurement Bids

## **Complaint Decision**

## Notice of Protest, Bid 21-17

UOG Procurement Bids <uog.bids@triton.uog.edu>

Mon 12/6/2021 3:05 PM

To: GPE INC <guampacific@gmail.com>

Bcc: Camacho, Anthony <arcamacho@triton.uog.edu>

Håfa Adai & Good Afternoon Mr. Linsangan,

Please comply with the requirements of Section 9.2.3.1 and Section 9.2.3.3, UOG Procurement Regulations if you desire to file a protest. Until you GPE does so, UOG will treat this matter as a complaint and not a Protest. Accordingly, and pursuant to Section 9.2.2, UOG Procurement Regulations, on behalf of UOG's President, there is no merit to your complaint. Specifically, it appears that you are assuming that the President's Biden's Executive Order applies to UOG-IFB-21-17. However, you do not cite any specific portions of said Executive Order or other federal law specifically making said Executive Order applicable to UOG-IFB-21-17. Further, Guam Procurement Law specifically requires the 15% Bid Bond. Bid security shall be required for all competitive sealed bidding for the procurement of supplies or services when the total price is estimated to exceed Twenty-Five Thousand Dollars (\$25,000.00). 5 G.C.A. §5212(a). Here, the price of the items being solicited for in UOG-IFB-21-17 will likely exceed the amount of Twenty-Five Thousand Dollars (\$25,000.00). Further, Bid security shall be in an amount equal to fifteen percent (15%) of the total amount bid. 5 G.C.A. §5212(b). There is no exception in the aforementioned Guam Procurement Law for solicitations made by Public Corporations, such as UOG, that are federally funded. Finally, if you are concerned that there is a difference between the manner in which the U.S. Navy and the U.S. Air force and UOG conduct their procurement actions, be advised that Federal Procurement Laws and the Federal Acquisition Regulations apply to the U.S. Navy and U.S. Air Procurement, and Guam Procurement Law and UOG's Procurement Regulations apply to UOG procurements. For UOG-IFB-21-17, UOG must comply with Guam Procurement Law and UOG's Procurement Regulations to include the requirement for the 15% Bid Bond.

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Si Yu'os ma'ase' & Have a nice day!,



Respectfully.

**UOG Procurement** 

Office: 671-735-2925 Fax: 671-735-3010 uog.bids@triton.uog.edu CONFIDENTIALITY STATEMENT: This message is from the University of Guam and contains information which is privileged and confidential and is solely for the use of the intended recipient. If you are not the intended recipient, any review, disclosure, copying, distribution, or use of the contents of this message is strictly prohibited. If you have received this transmission in error, please destroy immediately.

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Sent: Monday, December 6, 2021 10:11 AM

To: Gumataotao, Emily <eggumataotao@triton.uog.edu>; UOG Procurement Bids <uog.bids@triton.uog.edu>

Subject: Re: Notice of Protest, Bid 21-17

[EXTERNAL EMAIL - Please use caution when opening attachments or clicking links.] Please confirm receipt of this email. ( Notice of Protest )



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On Mon, 6 Dec 2021 at 10:10, GPE INC < guampacific@gmail.com > wrote:

----- Forwarded message ------

From: **GPE INC** <<u>guampacific@gmail.com</u>>

Date: Mon, 6 Dec 2021 at 10:05 Subject: Notice of Protest, Bid 21-17 To: <uogbids@triton.uog.edu>

Dear Ms. Gumataotao and Procurement Team

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Federal Law supersedes Guam law, therefore Bid bond should not be implemented because it substantially burdens. American small business owners, workers and manufacturers. We participated on Military bids here for the last 34 years and the Navy and US Air Force do not require Bid bonds.

Stay of Procurement is warranted due to this Notice of Protest. Please take note that I only received the response last Friday.

Very Respectfully, Sedfrey M. Linsangan President GPEINC

Guam Pacific Enterprise, Inc. Tel: (671) 649-6994/7/8



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