

Prince George's County Public Schools

Louis Wilson Sr., Facilities Administration Building 13300 Old Marlboro Pike, Room 20 Upper Marlboro, MD 20772

NOTICE OF CONTRACT AWARD

December 14, 2022

Adrian L. Merton INC Attention: Matt Merton 9151 Hampton Overlook Capitol Heights, Maryland 20743 Phone: 301.336.2700 Email: les@almerton.com Eyvette Wright/KB Kaniea Barnhardt Telephone: 301.952.6571 Fax: 301.952.6605 Email: Eyvette.Wright@PGCPS.org

SUBJECT: Rider Contract: Sourcewell MD-R3-HVAC02-052621-ALM - Chiller Replacement Project at Lake Arbor Academy, Roger Heights Elementary, and Samuel Massie Elementary Schools

Adrian L. Merton INC has been selected as the vendor to provide services to Prince George's County Public Schools (PGCPS) in accordance with the above-mentioned Rider **Sourcewell MD-R3-HVAC02-052621-ALM** under **PGCPS Contract DBS038-23** at Lake Arbor Academy, Roger Heights ES, and Samuel Massie ES. This contract sets-forth the terms and conditions and is provided for your review and acceptance. Any changes or additions made by your company must first be accepted by the Purchasing Division before the contract is valid.

The intent of this contract is to provide the Board with an expedited means of procuring supplies and/or services at the lowest responsible cost. This contract is for the convenience of the Board and is considered by the Board to be a "Non-Exclusive" use contract. The Board does not guarantee any usage. The Board will not be held to purchase any particular Brand, in any groups, prices or discount ranges, but reserves the right to purchase any item/items listed in the price schedule submitted.

Failure to sign the contract award via ADOBE and return all required documents within the specified time, shall rule your offer null and void and, therefore, award shall be made to the next low responsive bidder.

Until the contract is fully executed and a Purchase Order is issued *or* a Notice to Proceed (NTP) is issued by the Department of Purchasing and Supply Services, authorization for mobilization or commencement of work is forbidden.

iSUPPLIER REGISTRATION

All vendors must be a registered vender in iSupplier to conduct business with PGCPS.

Vendors must provide their iSupplier Number at the time Notice of Award is signed

If your company is not properly registered as a vendor, PGCPS will not sign the contract. Further, failure to
register in iSupplier within the time period specified, shall rule your offer null and void. PGCPS reserves the
right to rescind the award notice issued in favor of your company and award the contract to the next lowest
responsive bidder.

PERFORMANCE/PAYMENT BOND

<u>A 100% Performance Bond and 100% Labor and Material Payment Bond</u> or Certified Check in the amount of **\$1,049,664.43** must be submitted to the PURCHASING OFFICE with the returned signed NOTICE OF AWARD WITHIN TEN (10) DAYS. Further, failure to provide the bond within the time period specified, shall rule your offer null and void.

The bond, cashiers or certified check must be made in favor of the **BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY, UPPER MARLBORO, MARYLAND 20772-9983.**

INSURANCE

A Certificate of Insurance, made in favor of the Board of Education of Prince George's County, Upper Marlboro, Maryland 20772-9983, must be on file in order to fully execute the NOTICE OF AWARD. The certificate should reference the Solicitation Number as shown herein. It will be the responsibility of the contractor to ensure that a current Certificate of Insurance is on file in the Purchasing Office during the entire period of the contract.

CONTRACT AWARD ESTIMATED AMOUNT

The amount of award is not to exceed

\$ 1,049,664.43

CONTRACT TERM

This is a completion contract. The term "completion" is defined as all work has been performed and accepted as outlined in vendor quote under Attachment A, Bid Price. The contract term is through December 13, 2023 or completion of work, whichever occurs first.

THIS NOTICE OF AWARD IS NOT AN ORDER TO COMMENCE SERVICE/WORK OR TO MAKE DELIVERIES at

this time. Authorization to commence service/work/deliveries **may** be given prior to receipt of purchase order due to the Emergency. If a *Notice to Proceed* has not been issued, work shall not commence until receipt of a **Purchase Order** signed by the Purchasing Agent.

OPTION TO RENEW CONTRACT

Upon satisfactory service and by mutual agreement the BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY reserves the right to renew the contract. The term of renewal shall not exceed available renewal options under **MD-R3-HVAC02-052621-ALM**.

MBE GOALS

Prince George's County Public Schools has a Minority Business Enterprise (MBE) Program in effect. Information about this program and forms for compliance are included in the bid documents; the forms can also be downloaded online at: <u>https://www.pgcps.org/offices/general-counsel</u>, click on "Administrative Procedures," then click on Business and Non-Instructional Operations -3000 for Administrative Procedure 3325 and attachments.

The vendor shall provide materials, supplies, equipment, and/or services for the scope of work as defined under MD-R3-HVAC02-052621-ALM shall attempt to achieve **15%** participation of Minority Business and/or Small Business Enterprise organizations in response to the Board of Education's goal for economic development.

LIQUIDATED DAMAGES/FAILURE TO PERFORM WORK

The successful Awardee accepts this contract with the understanding that should they fail to complete the work in an acceptable manner and in the time stated, shall be subject to the payment of liquidated damages as stated in the proposal document(s).

AVAILABILITY OF FUNDS

The contract shall be deemed executory only to the extent of appropriations available to the BOARD for the purchase of such articles. The obligation of the BOARD on all contracts, including those which envision funding through current and successive fiscal years, shall be contingent upon actual Board appropriations for the fiscal year(s) involved.

FINGERPRINT CRIMINAL HISTORY BACKGROUND CHECKS, CHILD PROTECTIVE SERVICE CLEARANCES, AND SAFE SCHOOLS TRAINING REQUIREMENTS

a. Pursuant to <u>Administrative Procedure 4215</u> - *Criminal History Checks, Employee Self-Reporting of Arrests, Criminal Charges, CPS Investigations and Findings & Incarceration*, any and all Vendors, which includes Independent Contractors, Subcontractors, Outsourced Agency Employees and Outsourced Temporary Staffing, who have uncontrolled access to students must complete a fingerprint criminal history background check, child protective service (CPS) clearance and required online Safe Schools training course(s).

b. All fingerprint background checks and CPS clearances must be completed 15 business days prior to beginning work in and around PGCPS property or engaging in any authorized activities involving PGCPS students. The fingerprint background checks and CPS clearances must be completed through Prince George's County Public Schools at one of the authorized locations listed on the PGCPS website (https://www.pgcps.org/fingerprinting/#service). No person may begin working in PGCPS until fingerprint background check results are received.

c. Required online Safe Schools training course(s) must be completed before providing contractual services in PGCPS schools and can be accessed through the PGCPS website (<u>https://www.pgcps.org/offices/compliance/student-safety/required-training-for-contractors</u>).

d. Safety Management System (reserved).

e. Pursuant to Md. Education Code Ann. §6-113.2 (Code), a contractor of a Board of Education who provides a service to a school or the students of a school shall meet the requirements set forth for screening its employees assigned to work at a school site to determine whether such employees have a history of child sexual abuse and/or sexual misconduct. The Vendor shall be solely responsible for completing the screening set forth in the Code, shall maintain records of employee screenings, and shall make such records available to PGCPS upon request.

f. Prior to initiating any work at a school building, current and future employees of Vendor must sign in and sign out via the Raptor Visitor Management System, which requires a copy of their government issued identification.

g. Prior to initiating any work at a school building, the Vendor agrees to provide the designated PGCPS representative and the PGCPS Purchasing Department with a list of all current employees and an immediate update of changes in personnel, employees, contractors, subcontractors, agents, volunteers, outsourced temporary staff and any instructors. It is the responsibility of the Vendor to make certain that its employees, contractors, subcontractors, subcontractors, agents, volunteers, outsourced temporary staff, consultants and any instructors meet the background check and training requirements specified.

All correspondence should include the following information as applicable:

- i. title of the project
 - ii. school/office
- iii. solicitation number
- iv. contract number; and
- v. PGCPS representative/project manager

RESTRICTIONS ON EMPLOYEE ASSIGNMENTS

Vendors are prohibited from assigning the following persons from working at a PGCPS location:

- a. Registered sex offenders (Maryland Code, Criminal Procedure Article Section 11-722)
- b. Individuals convicted of a crime involving third- or fourth-degree sexual offence under sections 3-307 or 3-308 of the Criminal Law Article: child sexual abuse under Section 3-602 of the Criminal Law Article; a crime of violence as defined in Section 14-101 of the Criminal law Article; or comparable offenses in another state. (Annotated Code of Maryland, Education Article Section 6-113)
- c. Individuals identified as an alleged abuse or neglect or following completion of a Child Protective Services investigation with a finding of "indicated" child abuse or neglect.

PERSONALLY IDENTIFIABLE INFORMATION (PII)

Personally Identifiable Information includes any information that can be associated with or traced to any individual, including an individual's name, address, telephone number, e-mail address, credit card information, social security number, or other similar specific factual information, regardless of the media on which such information is stored (e.g., on paper or electronically) and includes such information that is generated, collected, stored or obtained as part of this Agreement, including transactional and other data pertaining to users. The parties will comply with all applicable privacy and other laws and regulations relating to protection, collection, use, and distribution of Personally Identifiable Information. In no event may PII be sold or transferred to third parties, or otherwise provide third parties with access thereto. If there is a suspected or actual breach of security involving Personally Identifiable Information, the parties will notify each other within twenty-four (24) hours of a management-level employee becoming aware of such occurrence.

LAWS AND PERMITS

The contractor shall, without additional cost to the BOARD, be responsible for paying for and obtaining any necessary licenses, inspections and permits for complying with any and all FEDERAL, STATE AND LOCAL LAWS, CODES AND REGULATIONS, in connection with the performance of the work. Laws of the STATE OF MARYLAND and PRINCE GEORGE'S COUNTY shall govern the contract.

This notice of award. plus the solicitation, your offer and any pertinent documents will constitute the entire contract or additional terms afte and

after acceptance by your firm and the BOARD. Please refer to and conditions.	MD-R3-HVAC02-052621-ALM for additional tern
ACCEPTED BY:	
FOR THE FIRM: Matthew Merton	FOR THE BOARD OF EDUCATION:
Matthew Merton (Dec 15, 2022 09:11 EST) SIGNATURE DATE	keith.stewart@pgcps.org keith.stewart@pgcps.org (Dec 15, 2022 10:29 EST)
Matthew Merton	Keith Stewart NAME:
Vice President	Director, Purchasing & Supply Services
Adrian L. Merton Inc.	FOR THE BOARD OF EDUCATION OF PRINCE GEORGE'S COUNTY UPPER MARLBORO, MARYLAND 20772
2631 isupplier id #	
	4 P

DATE

ATTACHMENT A VENDOR CONTRACT PRICING **See attached**



Heating & Air Conditioning

Specialist

Proposal for Chiller Replacement at Lake Arbor Elementary School

August 4, 2022

Garth Deitzer 13300 Old Marlboro Pike Upper Marlboro, MD 20772 Prince Georges County Public Schools

RE: Replace the air-cooled chiller at Lake Arbor Elementary School

Mr. Deitzer,

- 1. Disconnect power and piping from the existing chiller
- 2. Disconnect controls from the chiller.
- 3. Remove chiller from site.
- 4. Prepare chiller pad for the new chiller.
- 5. Set new chiller in the same location as the existing. New chiller will set on vibration pads.
- 6. Modify and connect piping.
 - a. Install new high performance shut off valves.
 - b. Install new braided flex connectors.
- 7. Modify and connect electrical power wiring.
- 8. Connect controls.
- 9. Test piping.
- 10. Clean pipe strainers
- 11. Insulate piping and label.
- 12. Wrap exterior insulation with aluminum jacket.
- 13. Start-test and check operations of the chiller by factory technicians.

Cost breakdown:

Materials:

10101	
Chiller (per attached submittal)	\$193,246
Piping	\$7,610.00
Piping Specialties (Valves, isolation, thermometers, pre	essure gauges, etc) \$4,082.50
Controls, flow switches, control wiring	\$3,997.00

P.O. BOX 3570, CAPITOL HEIGHTS, MD 20791-3570

P.O. BOX 3570, CAPITOL HEIGHTS, MD 20791-3570

Labor:

Subcontractors:

Crane

Insulation

Electrical

Controls

2 v 7

> Tech, Welder, Pipefitter: 260 Man Hours, normal working hours @ \$94.00 per hours \$24,440.00 Apprentice/Helper: 260 Man Hours, normal working hours @ \$60.00 per hours \$15,600.00

Should you need any additional information, please do not hesitate to call our office at (301) 336-7900.

Very truly yours, ADRIAN L. MERTON, INC.

de la Matthew A. Merton

Vice President

Acceptance Signature:

\$40,040.00

<u>\$4,058.00</u>

<u>\$274,560.35</u>

\$2,860.00 \$21,120.00

\$406.85

\$1,210.00

\$12,100.00

\$4,950.00

\$209,342.35

Paint, stencil, consumables and misc

Bond

Proposal Total:



(301) 336-2700 SERVICE (301) 336-7900 FAX (301) 336-6077

Heating & Air Conditioning

Specialist

Proposal for Chiller Replacement at Rogers Heights ES

August 4, 2022

Garth Deitzer 13300 Old Marlboro Pike Upper Marlboro, MD 20772 Prince Georges County Public Schools

RE: Replace the 2 air-cooled chiller at Rogers Heights ES.

Mr. Deitzer,

- 1. Disconnect power and piping from the existing chillers.
- 2. Disconnect controls from the chillers.
- 3. Remove chiller from site.
- 4. Prepare chiller pad for the new chillers.
- 5. Set new chiller in the same location as the existing. New chiller will set on vibration pads.
- 6. Modify and connect piping.
 - a. Install new high performance shut off valves.
 - b. Install new braided flex connectors.
- 7. Modify and connect electrical power wiring.
- 8. Connect controls.
- 9. Test piping.
- 10. Clean pipe strainers
- 11. Insulate piping and label.
- 12. Wrap exterior insulation with aluminum jacket.
- 13. Start-test and check operations of the chillers by factory technicians.

Cost breakdown:

Materials:

Chiller (per attached submittal)	\$224,330.35
Piping	\$7,610.00
Piping Specialties (Valves, isolation, thermometers, pressure gauges, etc)	\$4,082.50
Controls, flow switches, control wiring	\$3,997.00

	<u>\$224,330.35</u>
Subcontractors:	
Crane	\$1,210.00
Insulation	\$14,300.00
Electrical	\$7,150.00
Controls	\$8,580.00
	<u>\$31,240.00</u>
Labor:	
Tech, Welder, Pipefitter: 320 Man Hours, normal working hours @ \$94.00 per h	ours \$30,080.00
Apprentice/Helper: 320 Man Hours, normal working hours @ \$60.00 per hours	\$19,200.00
	<u>\$49,280.00</u>
Bond	
	<u>\$4,524.00</u>
oposal Total:	
	<u>\$309,374.35</u>

Paint, stencil, consumables and misc

Should you need any additional information, please do not hesitate to call our office at (301) 336-7900.

Very truly yours, ADRIAN L. MERTON, INC.

Matthew A. Merton

Vice President

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Acceptance Signature:

\$406.85

P.O. BOX 3570, CAPITOL HEIGHTS, MD 20791-3570



(301) 336-2700 SERVICE (301) 336-7900 FAX (301) 336-6077

Heating & Air Conditioning Specialist

Samuel Massie Academy Chiller Replacement **Prince Georges County Public Schools**

December 13, 2022

Site: Samuel Massie Academy 3301 Regency Parkway Forestville, MD 20747

Scope Of Work

- The contractor shall utilize the Sourcewell Cooperative contract MD-R3-HVAC02-052621-ALM to perform the following Detailed Scope of Work.
- 2. The Contractor shall remove and install two (2) chillers 180-ton air cooled units.
- 3. The work shall include but not limited to the following:
- 4. The contractor shall recover the refrigerant from the two existing air-cooled chillers.
- 5. All piping shall be disconnected
- 6. The controls shall be disconnected by the control's contractor.
- 7. All wiring shall be disconnected.
- 8. The contractor shall remove the chillers and dispose.
- 9. New vibration pads need to be installed and the chillers installed.
- 10. Contractor shall connect piping. Install isolation valves. Install strainers. Install balance valves and provide low point drains.
- 11. Contractor shall install piping insulation with protective aluminum coverings for outdoor use.
- 12. Contractor shall install service disconnects and install new power wiring from disconnects to chillers.
- 13. Contractor shall provide a factory startup and provide all training and manuals as required.

Signature Document

	EZIQC Contract No.	.: MD-R3-HVACO	2-052621-ALM
	X New Work Order	Modify an E	ixisting Work Order
Number: 09	5691.00	Date:	112/13/2022
Title:	PGCPS - Samuel Massie Academ	y - Replace Chiller	
Owner Name:	Prince Georges County Public Schools	Contractor Name:	Adrian L. Merton Inc.
Contact:	Garth Deitzer	Contact:	Matt Merton
Phone:	301-952-7821	Phone:	301-336-2700
Brief Work Ord	ler Description:		
Replace Chille		the Detailed Scope	of Work
Time of Perfo	ormance See Schedule Section of	the Detailed Scope	of Work
Time of Perfo	ormance See Schedule Section of		
Time of Perfo Liquidated Da Firm Fixed Pri	amages Will apply:		
Time of Perfo Liquidated Da Firm Fixed Pri	amages Will apply:		

Contractor

Detailed Scope of Work Continues..

Number: Title; 095691.00 PGCPS - Samuel Massie Academy - Replace Chiller

Contractor

Owner

Date

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Contractor's Price Proposal - Summary

Date:	December 13,2022	
IQC Master Contract #:	MD-R3-HVAC02-052621-ALM	
Number:	095691.00	
Owner PO #:		
Title:	PGCPS - Samuel Massie Academy - Replace Chiller	
Contractor:	Adrian L. Merton Inc.	
Proposal Name:	PGCPS - Samuel Massie Academy - Replace Chiller	
Proposal Value:	\$465,729.73	
01 - General Requirem	ents	\$2,657.19
22 - Plumbing		\$3,449.10
23 - Heating, Ventilatin	g, And Air-Conditioning (HVAC)	\$439,863.00
26 - Electrical		\$19,760.44
Proposal Total		\$465,729.73

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

Contractor's Price Proposal - Detail

December 13, 20222021
MD-R3-HVAC02-052621-ALM
095691.00
PGCPS - Samuel Massle Academy - Replace Chiller
Adrian L. Merton Inc.
PGCPS - Samuel Massie Academy - Replace Chiller
\$465,729.73

Sect. Nern Modilier UON Description Labor Equip. National (Excluded if marked with an X)

Line Total

\$2,657.19

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01 - General Requirements

1	01 22 23 00-0960	DAY	60 To 65 Ton L	ifi, Truck	Mounte	d Hydraulic Crane	With Full-	Time Operator		\$2,657.19
				Jantity		Unit Price		Factor	Total	
		installati	on	1.00	x	2,363.84	x	1.1241 🎽	\$2,657.19	

Subtotal for 01 - General Requirementa

22- Plumbing

\$195.0		/loe Jackel	n With All Se	ulation	lberglass	" Thick,	ter Pipe, 1-1/2	4" Diamel (ASJ)	LF	22 07 19 00-0037	2 22 07 19					
	Total	Factor		90	Unit I		Quantity									
	\$195.05	1.1241 =	x	16	1	x	12.00	tion	Installat							
\$1,485.30		vice Jacket	n With All Se	wlation	iberglass	"Thick,	ter Pipe, 1-1/2	6" Diamel	LF	22 07 19 00-0038	3					
								(ASJ)								
	Totai	Factor		> e	Unit		Quentity									
	\$1,238,98	1.1241 =	x	70	1	x	66.00	tion	Installat							
	\$248.31	1.1241 =	x	32		x	86.00	ion	Demoliti							
\$475.54		rvice Jacket	on With All S	nsulatio	Fiberglass	2" Thick	əter Pipe, 1-1/	12" Diama (ASJ)	LF	22 07 19 00-0041	4					
	Total	Factor		æ	Unit		Quantity									
	\$475.54	1.1241 =	x	#4	2	x	16.00	tion	installet							
\$1,004.54				ng	lation Jack	um lasu	0.016" Alumir	9-1/2" 1D,	ĹF	22 07 19 00-0598	5					
	Total	Factor		90	Unit		Quantity									
	\$1,004.54	1.1241 🚆	х	54	1	x	66.00	lion	Installeti							
\$288.67				ting	ulation Jac	inum Ins	, 0.016" Alum	12-1/2" ID	LF	22 07 19 00-0604	6					
	Total	Factor		æ	Unit i		Quantity									
	\$288.67	1.1241 =	x	05	4	x	16.00	ion	Installati							

Subtotal for 22 - Plumbing

\$3,449.10

23 - Heating, Ventilating, And Alr-Conditioning (HVAC)

7	23 05 16 00-0017	6 00-0017 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint								
			Quantity		Unit Price		Factor	Total		
		Installation	4.0D	x	1,201.25	x	1.1241 🌋	\$5,401.30		
		Demolition	4.00	×	216.77	x	1.1241 =	\$974.68		
8	23 05 19 00-0008	EA 9" So	ale, Angle Stem.	Liquid Fill	ed Industrial Unic	on Conne	clion Type		\$544.15	
		Then	nometer							
			Quantity		Unit Price		Factor	Total		
		Installation	4.00	x	121.02	x	1.1241	\$544.15		

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Contractor's Price Proposal - Detail Continues..

	Sect.	item	Modifer UOM	Description							Line Tota
abor	Equip.	Material	(Excluded If marked	with an X)							
3 - H	eating, V	entilating	And Air-Conditio	oning (HVA	(C)						
9	23 05 19	00-0029	EA		eter Dial, Al	uminum	Case, 0 To 60 PS	or 0 to	100 PSI, Pressure		\$823.8
				Gauge	Quantity		Unit Price		Factor	Total	
			Installati	on	4.00	x	183.22	x	1.1241	\$623,63	
10	23 05 19	00-0051	EA	1/4" Male P	ipe Thread,	Brass Ga	uge Cock				\$87.7
					Quantity		Unit Price		Factor	Total	
			Installati	on	4.0D	x	19.51	x	1.1241	\$87.72	
17	23 05 19	00-0053	EA	1/4" x 3" Lo:	ng Black Ste	el Nipple)		·····		\$19.9
					Quantity		Unit Price		Factor	Total	••••••
			Installati	on	4.00	x	4.44	x	1.1241	\$19,96	
12	23 05 23 0	00-0071	ÉÁ	8" Diameter	Class 125	Outside	Stem And Yoke, I	Flanned (Cast Imp Body		\$4,649,41
				Bronze Trim			protiticing ronol.	, million 1	bust non body,		\$4,040,4
					Quantity		Unit Price		Factor	Tolai	
			Installati	on	4.00	x	1,034.03	х	1.1241	\$4,649.41	
13	23 05 23 (00-0123	ËA	1/2" Thread Body, Bell V		ted, 125	LB, Regular Port	Carbon	Steel Trim, Brass		\$151.82
			t P		Quantity		Unit Price		Factor	Total	
			Installati	on	4.00	x	33.72	x	1.1241	\$151.82	
14	23 05 23 (00-0124	EA	3/4" Thread Body, Ball V		led, 125	LB, Regular Port	, Carbon	Steel Trim, Brass		\$318.68
			h - ni - 11 - 47		Quantity		Unit Price		Factor	Totel	
			Installati	on	6.00	x	47.25	x	1.1241 =	\$318.68	
15	23 05 23 0	00-1039	EA	6" Flanged i Pressures L			ron And Bronze,	Water Bal	lancing Valve With		\$4,293.77
					Quantity		Unit Price		Factor	Totai	
			instelleti	on	2.00	x	1,909,87	x	1.1241	\$4,293.77	
16	23 05 29 0	00-0952	EĄ	10" Outside (Cooper B-L		6 Gauge	Insulation Prote	ction Shie	id, 18" Lengih		\$283,81
			lentettett		Quantity		Unit Price		Factor	Total	
			Installatio	าก	8.00	X	31.56	x	1.1241	\$283.81	
17	23 05 48 1	3-0021	EA	550 To 1,92	0 LB Rubbe	r in Shea	r Vibration Isolat	ion With C	,48" Deflection		\$3,072.30
					Quantity		Unit Price		Factor	Total	
			Instelleti	on	8.00	х	341.64	x	1.1241 =	\$3,072.30	
18	23 05 93 0	0-0031	EA	Water Balan		Air Coole					\$913.04
			Installatio	'n	Quantity	~	Unit Price	x	Factor	Total	
_					2.00	x	406.12		1.1241	\$913.04	
19	23 05 93 0	Q-0085	EA	Up To 100',		"Iping, H	drostatic Testing	1			\$1,882.58
			Installatio	n	Quantity		Unit Price		Factor	Total	
			1119/02(10)/		2.00	x	B37.37	x	1.1241	\$1,882.58	
20	23 09 23 5	3-0050	PNT	EMCS Field	Checkout A	nd Start	pPriced per poir	nt.			\$1,244.38
			1		Quantity		Unit Price		Factor	Total	
			Installatio	on	12.00	x	92.25	×	1.1241	\$1,244.38	

Contractor's Price Proposal - Detail Continues...

			Modifer	UOM	Descriptio	1						
	Sect	ttem	(Constitute of t	T-n-n-d-n-d	and the set W1				-			Line To
abor	Equip.	Material	(Excluded i	T MALKOO	with an A)							
- He	ating, Ve	ntilating.	And Air-C	onditio	ning (HVA	(Ĉ)						
21	23 09 23			EA			ACtalk	Control Module (Al	erton 71	5000100)		\$10,182.
- 1						Quentity		Unit Price		Factor	Total	\$10,101.
				Instaliat	ion	2.00	к	4,529.32	x	1.1241 =	\$10,162.82	
				Chiller E	ACNet Card	s from Fecto	ry .					
22	23 09 23 5	53-0534		EA	IFS-WPS	Flow Switch	(Potier 9	2000017)				\$718.7
				Installat	ion	Quantity		Unit Price		Factor	Total	
_				ເບລະອຸດສາ		2.00	x	319.72	x	1.1241	\$718.79	
23	23 09 23 8	3-0985		EA	Energy Me	ter H8163 S	erles, W	ith BACnet Output	(Veris I	18185-CB-BAC)		\$7,787.9
				installati	ion	Quantity		Unit Price		Factor	Total	
						2.00	x	3,464.06	x	1.1241	\$7,787.90	
24	23 21 13 2	3-0217		EA	1/2° x 4" L		ie 40 Bli	ack Steel Nipple			_	\$103.6
				Inetallati	ion	Quantity 8.00	x	Unit Price 11.53	x	Factor 1.1241 =	Total	
		0.00/0			in féil a áit 1					1,1241	\$103.69	
25	23 21 13 2	3-0218		EA	3/4 X 4" L	-	18 40 84	ack Steel Nipple		Fasta	··· · ·	\$53.4
				Installati	ion	Quantity 4.00	x	Unit Price 11.89	×	Factor 1.1241 =	Total \$53.46	
76	23 21 13 2	3.0403		٤F	R" Schedul		d Pielo J	End Black Steel Pi	ne		\$55.46	P3 662 6
26	2021 102					Quantity	or and	Unit Price	μe	Factor	Total	\$2,852.6
				Instaliati	ion	40.00	x	45.09	x	1.1241	\$2,027.43	
				Demoliti	on	40.00	x	13.91	x	1.1241 📼	\$825.45	
Ž7	23 21 13 2	3-0421		EA "	6" Standar	d Weight, W	eided Pl	ein End Black Ste	el 90 De	gree Elbow	······································	\$3,628.7
						Quantity		Unit Price		Factor	Total	
_				instellati		6.00	ж	537.72	×	1.1241 =	\$3,626.71	
28	23 21 13 2	3-0450		EA	6" Stendar	d Weight, W	elded Pl	ain End Black Stee	el 45 De	gree Elbow		\$1,122.5
				Installati	ion	Quantity		Unit Price		Factor	Total	
						2.00	×	499.31	x	1.1241 =	\$1,122.55	
29	23 21 13 2	3-0468		EA	6" Standar	-	elded Pl	ain End Black Ste	el Tee			\$1,777.2
				Installeti	on	Quantity	x	Unit Price	x	Fector 1,1241 [#]	Totel	
			_			2.00		790.53			\$1,777.27	_
30	23 21 13 2	3-0514		EA	6" x 4" Sta		it, weidi	ed Plain End, Blaci	k Steel I			\$2,404.8
				Instaliati	on	Quantity 4.00	×	Unit Price 534.84	×	Factor 1,1241 ⁼	Totai \$2,404.85	
31	23 21 13 2	0812	- programment	EA	8" 160 I B		_	Black Steel Neck F	_		44,101.05	#0.000 F
31	2321 132	5-0022		Ln.	0,13010			Unit Price	ianĝe	Factor	Total	\$6,080.51
				Installati	ion	Quantity 19.00	x	264.70	x	1.1241	Total \$6,080.59	
32	23 21 13 2	3-0660		EA	1/2", 3.000	LB, Forge	_					\$232.0
						Quantity		Unit Price		Factor	Total	YLVL.U
				Installati	on	4.00	x	51.60	x	1.1241 =	\$232.01	
33	23 21 13 2	3-0661		EA	3/4", 3,000	LB, Forge \$	Steel Th	read-O-Let				\$371.66
						Quantity		Unit Price		Factor	Total	
				Installati	on	6.00	x	55.11	х	1.1241 =	\$371.69	

Contractor's Price Proposal - Detait

Page 3 of 5 8/10/2021 i.

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Contractor's Price Proposal - Detail Continues..

	0		Modifer	UOM	Deecriptio	កា							
abor	Sect. Equip,	item Material	(Excluded I	lf marked	with an X)		_						Line To
3.1	leating, Y	entilatio	, And Air-	Conditi	ioning (Hy	(AC)	0.223		(13)0V.		1.1.1.1	P. Carrowski (* 199	
34	23 21 13 2	23-0662		EA	1", 3,000	LB, Forge St	eel Threa	d-O-Let					\$132.7
						Quantity		Unit Price		Fector		Total	
				Installat	lion	2.00	х	59.04	x	1.1241	#	\$132.73	
35	23 21 13 2	23-0694		EA	6" Pipe Di	ameter, Clas	s 300 Ste	el Flange, Bolt A	nd Gasket	Setincludes n	ubber		\$2,285.
					gasket, ar	nd twelve (12)) 3/4" dia	neter bolts with v	vashers ar	id nut,			
				Instellat	lion	Quantity		Unit Price		Factor	_	Total	
_			_	IIISUENAL	lion	19.00	X	107.01	X	1.1241	<u>u</u>	\$2,285.51	
36	23 21 13 2	23-1432		LF	4" Black S	Schedule 40 (Grooved I	°ipe					\$621.3
						Quantity		Unit Price		Factor		Total	
				Installet	lion	12.00	X	46.06	х	1.1241	8	\$621.31	
37	23 21 13 2	3-1854		EA	6" x 4" Ec	centric Redu	cer, Groo	ved					\$2,110.5
						Quantity		Unit Price		Factor		Total	42,110.0
				Installat	ion	4.00	x	469,39	x	1.1241	2	\$2,110.57	
38	23 64 26 1	3-0012		EA	180 Top P		Coolert R	otary-Screw Wat	or Chiller			141110101	
30	2001201	0.001L		£3 (00010010			— .		_	\$359,451.1
				Installet	tion	Quantity	x	Unit Price	к	Factor	æ	Total	
				D		2.00 2.00		155,913.20		1.1241		\$350,524.06	
20		0.0040		Demoliti			ж	3,970.75	x	1.1241	2	\$8,927.04	
39													
	23 84 26 1	3-0012	0383	MOD	For 206/2:	30 Voltage M	otor Ratir	ig, Add					\$13,485.3
	23 04 20 1	3-0012	0363			Quantity		Unit Price		Factor	=	Total	\$13,485.3
-	23 04 20 1	5-0012	0363	MOD			otor Ratir x		×	Factor 1.1241	£	Total \$13,485.33	\$13,485.3
			0383 3, Ventilati	Installat	lon .	Quantity 2.00	x	Unit Price	x		£		
iubto	ital for 23			Installat	lon .	Quantity 2.00	x	Unit Price	x		5		
Subto				Installat	lon .	Quantity 2.00	x	Unit Price	x		=		
iubto	ital for 23	- Heating		Installat	lon d Air-Conc	Quantity 2.00	× HVAC)	Unit Price		1.1241	± d In		\$13,485.3 \$439,863.0 \$1,801.4
ubto <u>6 - E</u>	ital for 23	- Heating		Installat ing, And MLF	don d Air-Cone 500 MCM, Duct	Quantity 2.00	× HVAC)	Unit Price 5,998.26		1.1241	ء d In		\$439,863.0
ubto <u>6 - E</u>	ital for 23	- Heating		installat	don d Air-Cone 500 MCM, Duct	Quantity 2.00 ditioning (× HVAC)	Unit Price 5,998.28 Single Copper C		1.1241 Cable, Installed	։ Տերու Հ	\$13,485.33	\$439,863.0
ubto 6 - E	ital for 23	- Heating 6-0013		Installat ing, And MLF	don d Air-Cond 500 MCM, Duct ion	Quantity 2.00 ditioning (, XLP, 5 KV, 1 Quantity	x HVAC) Shielded, x	Unit Price 5,996.26 Single Copper C Unit Price 13,354.76	onductor (1.1241 Cable, Installed Factor	։ 5 կղ =	\$13,485.33 Total	\$439,863.0 \$1,801.4
ubte 6 - E 40	tal for 23 lectrical 26 05 13 1	- Heating 6-0013		Installat ing, And MLF Installati	don d Air-Cond 500 MCM, Duct ion	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight	x HVAC) Shielded, x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit	onductor (1.1241 Cable, Installer Factor 1.1241	։ ժ կղ =	\$13,485.33 Total \$1,801,45	\$ 439,863.0 \$1,801.4
ubto 6 - E 40	tal for 23 lectrical 26 05 13 1	- Heating 6-0013		Installat ing, And MLF Installati	don d Air-Cond 500 MCM, Duct ion 4" Flexible	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity	x HVAC) Shielded, x Metallic (Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price	ionductor (1.1241 Cable, Installer Factor 1.1241 Factor	5 d In =	\$13,485.33 Total \$1,801.45 Total	\$439,863.0 \$1,801.4
ubto 6 - E 40	tal for 23 lectrical 26 05 13 1	- Heating 6-0013		Installati ing, And MLF Installati Installati	don d Air-Cond 500 MCM, Duct ion 4" Flexible	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00	x HVAC) Shielded, x Metallic (x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30	ionductor (x x	1.1241 Cable, Installer Factor 1.1241 Factor 1.1241	2	\$13,485.33 Total \$1,801.45 Total \$492.58	\$439,863.0 \$1,801.4
40	tal for 23 lectrical 26 05 13 1 26 05 33 1	- Heatinş 6-0013 3-2291		Installati ing, And MLF Installati LF Installati Demoliti	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion ion	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 14.90	x HVAC) Shielded, x Metallic (x x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59	ionductor (1.1241 Cable, Installer Factor 1.1241 Factor	2	\$13,485.33 Total \$1,801.45 Total	\$439,863.0 \$1,801.4 \$549.0
6 - E 40	tal for 23 lectrical 26 05 13 1	- Heatinş 6-0013 3-2291		Installati ing, And MLF Installati Installati	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion ion	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight 14.00 14.00 t Liquid Tight	x HVAC) Shielded, x Metallic (x x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59	ionductor (x x	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 1.1241	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50	\$439,863.0 \$1,801.4 \$549.0
ubto 40 41	tal for 23 lectrical 26 05 13 1 26 05 33 1	- Heatinş 6-0013 3-2291		Installati ing, And MLF Installati LF Installati Demoliti	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 14.00 K Liquid Tight Quantity	x HVAC) Shielded, x Metallic (x x Connecto	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59 C Unit Price	x x x x	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 1.1241 Factor	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total	\$439,863.0 \$1,801.4 \$549.0
4 0 41	26 05 33 1	- Heating 8-0013 3-2291 3-2302		Installati ing, And MLF Installati LF (nstallati EA Installati	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 Liquid Tight Quantity 4.00	x HVAC) Shielded, x Metallic (x Conneck x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59 Or Unit Price 164.44	ionductor (x x	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 1.1241	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50	\$439,863.0 \$1,801.4 \$549.0
40	tal for 23 lectrical 26 05 13 1 26 05 33 1	- Heating 8-0013 3-2291 3-2302		Installati ing, And MLF Installati LF Installati Demoliti EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 14.00 K Liquid Tight Quantity	x HVAC) Shielded, x Metallic (x Conneck x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59 Or Unit Price 164.44	x x x x	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 1.1241 Factor	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total	\$439,863.0 \$1,801.4 \$549.0 \$829.3
4 0 41	26 05 33 1	- Heating 8-0013 3-2291 3-2302		Installati ing, And MLF Installati LF Installati EA Installati EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" 90 Deg	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 Liquid Tight Quantity 4.00	x HVAC) Shielded, x Metallic (x Conneck x uid Tight	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59 Or Unit Price 164.44	x x x x	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241	2 2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total	\$439,863.0 \$1,801.4 \$549.0 \$829.3
40 41	26 05 33 1	- Heating 8-0013 3-2291 3-2302		Installati ing, And MLF Installati LF (nstallati EA Installati	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" 90 Deg	Quantity 2.00 ditioning (0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	x HVAC) Shielded, x Metallic (x Conneck x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 31.30 3.59 Or Unit Price 164,44 Connector	x x x x	1.1241 Cable, Installed Factor 1.1241 Factor 1.1241 Factor 1.1241	2 2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total \$629.32	\$439,863.0 \$1,801.4 \$549.0 \$829.3
4 0 41	26 05 33 1	- Heating 8-0013 3-2291 3-2302 3-2313		Installati ing, And MLF Installati LF Installati EA Installati EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" 90 Deg ion	Quantity 2.00 ditioning (x HVAC) Shielded, x Metallic (x x Connecto x uid Tight x	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 164,44 Connector Unit Price	x x x x x x x	1.1241 Cable, Installed Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total \$629.32 Total	\$439,863.0 \$1,801.4 \$549.0 \$829.3 \$602.9
40 41 42 43	26 05 33 1 26 05 33 1 26 05 33 1	- Heating 8-0013 3-2291 3-2302 3-2313		Installati ing, And MLF Installati LF (nstallati EA Installati EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" 90 Deg ion 600 Amp,	Quantity 2.00 ditioning (x HVAC) Shielded, x Metallic (x x Conneck x uid Tight x ss, 3 Pha	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 164.44 Connector Unit Price 269.17	x x x x x x yes And Ft	1.1241 Cable, Installed Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241 Jaeholders, He	2	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total \$629.32 Total	\$439,863.0 \$1,801.4 \$549.0 \$829.3 \$602.9
40 41 42 43	26 05 33 1 26 05 33 1 26 05 33 1	- Heating 8-0013 3-2291 3-2302 3-2313		Installati ing, And MLF Iostallati LF Installati EA Installati EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" Straight ion 4" 90 Deg ion 600 Amp, Duty Fusit	Quantity 2.00 ditioning (x HVAC) Shielded, x Metallic (x x Conneck x uid Tight x ss, 3 Pha	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 164.44 Connector Unit Price 268.17 se, 4 Wire, 3 Blac	x x x x x x yes And Ft	1.1241 Cable, Instelled Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241	= = = =	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total \$629.32 Total	\$439,863.0 \$1,801.4 \$549.0 \$829.3 \$602.94
6 - E 40 41 42 43	26 05 33 1 26 05 33 1 26 05 33 1	- Heating 8-0013 3-2291 3-2302 3-2313		Installati ing, And MLF Installati LF (nstallati EA Installati EA	don d Air-Cond 500 MCM, Duct ion 4" Flexible ion 4" Straight ion 4" Straight ion 4" 90 Deg ion 600 Amp, Duty Fusit	Quantity 2.00 ditioning (XLP, 5 KV, 1 Quantity 0.12 Liquid Tight Quantity 14.00 14.00 t Liquid Tight Quantity 4.00 ree Angle Liq Quantity 2.00 600 Volt Class ble, NEMA 1	x HVAC) Shielded, x Metallic (x x Conneck x uid Tight x ss, 3 Pha	Unit Price 5,998.26 Single Copper C Unit Price 13,354.78 Conduit Unit Price 164,44 Connector Unit Price 268.17 se, 4 Wire, 3 Blac s, Neutral Kit, Sel	x x x x x x yes And Ft	1.1241 Cable, Installed Factor 1.1241 Factor 1.1241 Factor 1.1241 Factor 1.1241 Jacholders, He	= = = =	\$13,485.33 Total \$1,801.45 Total \$492.58 \$56.50 Total \$629.32 Total \$602.90	\$439,863.0

Contractor's Price Proposal - Detail

Page 4 of 5 8/10/2021

Contractor's Price Proposal - Detail Continues..

	Sect.	item	Modifer	UOM	Description	
Labor	Equip.	the second se	(Excluded i	Contraction of the local division of the loc	the second se	
Subto	al for 26	- Electri	\$19,760.44			
Propo	sal Tota	al	and sections			\$465,72 9.73
Tible toto	Irennenn	the correct	rt totel for the	DMDDSB	. Any discrepancy between line totals.	

This total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding.

terms town

PETRA CHILI		nedningi	1 A A A A A A A A A A A A A A A A A A A	علاقتها تتريب								06/08/20:
Project name : M	a to the second	Transfer of the last		_			_				Entered F	USA Sal
		157 4			1000 2 11			1.1.1.5	1.1.1.1.1	100		COLOCULAR OF THE OWNER
Model Ref. : 0]	ption 1 (PSC	4-189)										Ny: 1
Input Data ;												
Refrigerant				:	R410A							
Power Supply Ambient		1.017.1		:	208/3ph/60 95.00	IHZ						
Cooler Water		[°F] [°F]		:	55.00							
Cooler Water		(%F)		;	45.00							
Fouling Factor			D4.3	;	0.000100							
•	r	{ ff² °F ₩	nta }	1	Water							
Glycol		[ft]		:	0							
Elevation		F 1		•	v							
Output Data :												
Cooler W.P.D		[Psi]		:	6.25							
Water Flow R		[GPM]		;	446.68 2233.40							
Minimum Loo	-	[Gallon] [GPM]		:	300.90							
Minimum Floy Calculated cap		Bfu/kr	1	:	2256720.0	0						
Calculated cap		T.R		:	188.06							
Calculated vel		[fpm]		:	668,12							
Operating Con	ditions :											
Compressor P		[kW]		:	207.83							
EER				:	10.10							
COP				:	2.96							
IPLV EER				1	14.7636							
IPLV kW/Tor	1			;	0.81							
AHRI Conditi	DBS :											
ſ	@ 100 %		@ 75 %		@ 50 %		@25 9	10	@1	0 %	7	
EER	10.097		12.96		16.04		17.52		18,	.12	1	
kW/Ten	1.188		0.926		0.748		0.685		0.0	662		
Sound Data 1 dba	<u>):</u>											
Compressor O					~ ~ ~ ~							
Frequency	· [Hz]	63	125	250	500	114	2k	4k	Sk	Total (dBA)	Į.
Sound Power	1	SWL	102	96	90	89	95	95	88	76	99	
Sound Pressu	re [SPL] @3() [ft]	73	67	61	60	66	66	59	47	70	
Condenser Data :												
>> Coil :												
Material				:	Micro Cha	nnel						
No. of condensers			: 8									
Total Air F		[CFM]		:	160794							
>> Feb :												
- 1, 10 M				;	Propeller (Axial)						
Condenser	FRES				-	-						
				:	Direct driv	rep						

Electricel Data

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Compressor No.

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PETRA CHILLER SELECTION 2,1

06/08/2023

reject name : Massie PGCPS		Entered By : USA Sale			
Condenser Fan Motor					
No.	:	8			
KW	t	1.96			
FLA	:	6.6			
MCA	:	836.55			
MOP	:	800			
MDS	:	1000			





