

Region: 5

Location: VA049

CSS #: 1681

Maximo Work Order No.: 18472

Asset #: NA

Date Issued: 7/18/22

Original Description: HVAC is not cooling and is making a loud unusal noise

Repairs Needed:

Labor and Matierals to remove and install 1 new pillow block bearing as well as 1 flange bearing on the drive side of the AHU. This will require the removal of additional panels that are factory riveted, removal of one of the blower wheel assemblies, for the new bearing to be installed. As with the panels, The blower assembly is riveted to the structure of the AHU, These will have to be ground down for removal and new hardware to be installed during the reinstallation of the blower assembly. Pullies and belts will be reinstalled and properly aligned and belt tension set. System will be restarted and checked for excessive vibration, proper blower rpm and blower speed.

Quantity	Line Item Number	Description	Labor Hours	Labor Rate/Hr	Materials	Equipment	Total
--	--	Materials	--	--	\$1,627.47	--	\$1,627.47
--	NA	Moore's Labor (2 men @ 40 hrs ea.)	80	\$120.00	--	--	\$9,600.00
--	NA	Moore's Diagnostic	6.5	\$120.00	--	--	\$810.00
--	NA	TWI Coordination	4	\$80.00	--	--	\$320.00

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Equipment	Total Cost	CE Factor	Total Estimate
90.5	\$10,730.00	\$1,627.47	--	\$12,357.47	106%	\$13,098.92



P.O. Box 119 • Altavista, VA 24517 • 24 Hour Service: 800.789.7199 • Fax: 888.722.2712 • MooresElectric.com

Proposal

July 15, 2022

Quotes are valid for 30 days.

USARC - VA049
6700 Strathmore Rd.
North Chesterfield, VA
Email

adam.colopy@tideh2o.net & Mary.Lowery@tideh2o.net

Contact Name Mary Lowery & Adam Colopy
Telephone 0.00
Cell Phone 614-623-9569
Fax Number 0.00

DESCRIPTION OF EQUIPMENT:

AHU#1 - Second Floor System and Trane Chiller

DESCRIPTION OF PROBLEM:

Check chiller and found system locked out on loss of charge alarm on circuit #1 as well as high pressure alarm on circuit #2. Diagnostics revealed that the suction pressure transducer and suction sensor were reading out of range causing the control panel to see the problem as a loss of charge. Circuit #2 was observed running a higher than normal discharge pressure due to pollen build up on the coil. Was given permission to proceed with cleaning the coils and to order parts. Coil was cleaned while on site, will return with new parts upon delivery. While onsite working on the chiller, AHU #1 was observed having a loud squealing and grinding noise coming from the blower compartment. Further inspection revealed a catastrophic failure to one of the two blower bearings inside of the AHU. AHU #1 was shut down to prevent further damage to the unit. Blower wheels look to be ok and undamaged at this point.

DESCRIPTION OF REPAIRS:

Moore's proposes to remove and install 1 new pillow block bearing (the bearing that suffered the worst damage) as well as 1 flange bearing on the drive side of the AHU. This will require the removal of additional panels that are factory riveted, removal of one of the blower wheel assemblies, for the new bearing to be installed. As with the panels, The blower assembly is riveted to the structure of the AHU. These will have to be ground down for removal and new hardware to be installed during the reinstallation of the blower assembly. Pullies and belts will be reinstalled and properly aligned and belt tension set. System will be restarted and checked for excessive vibration, proper blower rpm and blower speed.

MATERIAL, EQUIP OR PARTS

	Quantity	Sell price
PILLOW BLOCK BEARING	1.00	\$ 364.81
FLANGE BEARING	1.00	\$ 397.78
TORCH KIT	1.00	\$ 100.00
CUTOFF WHEELS	6.00	\$ 92.02
BOLT KIT	2.00	\$ 37.42
WASHER KIT	2.00	\$ 33.94
NUT KIT	20.00	\$ 24.00
COIL CLEANER 5 GALLON JUG	1.00	\$ 150.52
TRANE SENSOR AND TRANSDUCER	1.00	\$ 372.00
Truck Fee	1.00	\$ 55.00
Material Total		\$ 1,627.47

LABOR ITEMIZED

		Labor
Labor - Incurred	6.75	\$ 120.00 \$ 810.00
Labor - One Man	40	\$ 120.00 \$ 4,800.00
Labor - Second Man	40	\$ 120.00 \$ 4,800.00
Labor Total		\$ 10,410.00

Thank you for your business. If you have any questions or concerns, please feel free to contact us via telephone or quotes@mooreselectric.com

Materials	\$ 1,627.47
Labor	\$ 10,410.00
TOTAL	\$ 12,037.47

Robert Lowery, Changeout Estimator 434-309-2591
Sabrinia Taylor, Estimator 434-309-2563
James Davis, Estimator 434-309-2568
Marvin Slaughter, Estimator 434-369-3514
Jared Underwood, Estimator 434-306-2446

Approved by: _____

In consideration of Moore's Electrical & Mechanical extending credit to the above applicant, the undersigned hereby guarantees unconditionally and irrevocably. The compliance of all terms of the application and agreement, including the payment of any sums within the net terms agreed upon between the customer and Moore's, plus any additional costs such as a 1.5% monthly interest charge starting once an invoice becomes 30 days past due, service charges, legal fees and any means taken in order to collect debt. If it is deemed necessary to litigate, it is agreed that the County or District Court of Campbell County, Virginia shall be the venue of any suit. This guarantee shall remain in full force unless and until notice in writing is sent certified mail and received by Moore's Electrical & Mechanical. Said notice cannot be within 14 days of this signed agreement.



Trane U.S. Inc.
MIDLOTHIAN PARTS SUPPLY
14000 Justice Rd
Midlothian, VA 23113-6912
USA
PH: 804-893-5777
Midlothian@tranesupply.com

ORDER ACKNOWLEDGEMENT

Order Number	
17988115	
Order Date	Page
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Bill To:

MOORES ELECTRIC & MECH CONSTR INC
PO BOX 119
ALTAVISTA, VA 24517
USA

Ship To:

MOORES ELECTRIC & MECH CONSTR INC
14000 Justice Rd
Midlothian, VA 23113-6912
USA

4343694374

Ordered By: Mr. MARSHALL WILLIAMS, 434-509-9971

P21 ID: 1026760

Payment Terms: N30

National Account ID:

Internal Account: 2000385

Customer No: 94020

PO Number	Ship Route	Sold By:
ms295287		Lindsay Brockwell

Unit Info: Make / Model / Serial

Quantities					Item ID	Pricing	Unit	Extended
Ordered	Allocated	Remaining	UOM	Disp.	Item Description	UOM	Price	Price
			Unit Size	Weight		Unit Size	Store Pickup	HazMat

Pickup Location-MIDLOTHIAN PARTS SUPPLY, 14000 Justice Rd, , Midlothian, VA, 23113-6912

1	1	0	EA		TDR00736	EA	172.81	172.81
Non-Returnable			1.0	0.80	TRANSDUCER; 700 PSI, 0.25-18 NPTF, M-PAC	1.0	Y	N
					K			

Pickup Location-MIDLOTHIAN PARTS SUPPLY, 14000 Justice Rd, , Midlothian, VA, 23113-6912

1	0	1	EA		T SEN02039	EA	92.27	92.27
Non-Returnable			1.0	1.00	SENSOR; TEMPERATURE SENSOR, FAST	1.0	Y	N
					RESPONS			
					E			

Pickup Location-MIDLOTHIAN PARTS SUPPLY, 14000 Justice Rd, , Midlothian, VA, 23113-6912

1	1	0	EA		FREIGHT	EA	30.00	30.00
Non-Returnable			1.0	0.00	FREIGHT & HANDLING	1.0	Y	N



ORDER ACKNOWLEDGEMENT

Trane U.S. Inc.
MIDLOTHIAN PARTS SUPPLY
14000 Justice Rd
Midlothian, VA 23113-6912
USA
PH: 804-893-5777
Midlothian@tranesupply.com

Order Number	
17988115	
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Total Lines: 3

SUB-TOTAL	295.08
CENTRAL VIRGINIA DISTRICT TAX	1.85
VIRGINIA TAX	11.40
CHESTERFIELD TAX	2.65
ORDER TOTAL	310.98
U.S. Dollars	

All purchases are subject to Trane Parts and Supplies terms of sale, www.trane.com/PartsTermsOfSale

From: Earl Ware
To: Marvin Slaughter
Subject: FW: Grainger Order Confirmation #1453030403 / P.O. #USARC49
Date: Friday, July 15, 2022 4:12:58 PM
Attachments: image001.png

Earl Ware
Moore's Electrical & Mechanical
Richmond Area Service Manager

From: Grainger <Grainger@service.grainger.com>
Sent: Friday, July 15, 2022 3:27 PM
To: Earl Ware <eware@mooreselectric.com>
Subject: Grainger Order Confirmation #1453030403 / P.O. #USARC49

Caution! This message was sent from outside your organization.

Grainger

My Account | Order History | Help | All Products

Hello Earl Ware,
Thank you for placing an order with Grainger. We confirm that the following order has been received.

ORDER DETAILS

Order # 1453030403
PO # USARC49
Company Name : MOORES ELECTRIC INC

Subtotal \$635.49

Estimated Tax \$38.12
Standard Shipping FREE
Other Shipping \$0.00

\$673.61

Grainger EIN 36-1150280

Availability, Shipping, Tax & Promotions are not final until your order is processed. All final charges will be reflected on the associated invoice.

Moore's Electrical Service
10053 Lickinghole Rd Ste J
Ashland, VA 23005-3481
US
Customer Account # ****0914
Phone (434) 369-3526

MY PURCHASED PRODUCTS		TOTAL
		\$304.01
		QTY 1
	SEALMASTER Flange Bearing, 2-bolt, Ball, 1-15/16" Bore Item # 44A570 Price \$304.01 / each	STATUS Preparing to Ship
Expected to Arrive Tue Jul 19*		
	SEALMASTER Pillow Block Bearing, Ball, 1-15/16" Bore Item # 44A406 Price \$331.48 / each	STATUS Preparing to Ship
Expected to Arrive Mon Jul 18*		
TOTAL \$331.48		
QTY 1		

*Within the continental U.S. when your order is received by 5 p.m. local time at your local shipping facility, which may be in a different time zone from

you. Deliveries occur Monday-Friday, excluding holidays. Currently subject to limited product availability on select high-demand, pandemic-related items.

FOR YOUR CONSIDERATION



Item # [2X897](#)
[Pillow Block Bearing: 1/2 in Bore Dia., Set Screw, Pressed Steel, Pillow Block Bearing](#)



Item # [2X900](#)
[Pillow Block Bearing: 1 in Bore Dia., Set Screw, Pressed Steel](#)



Item # [45LW12](#)
[Light-Duty Industrial Fan: 42 in Blade Dia., 2 Speeds, 12, 500/16, 800 cfm, 115 V AC](#)



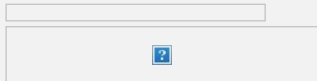
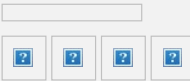
Item # [5PAY7](#)
[Expanded Sheet: Carbon Steel, 1008, 8 ft Lg, 4 ft Wd, 0.12 in Overall Thick, Flat](#)

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