

**Region: 5**

**Location: VA050**

**CSS #: 25194**

**Maximo Work Order No.: 12322**

**Asset #: NA**

**Date Issued: 05/20/20**

**Original Description: Replace a bad compressor on chiller #2 discovered during chiller PM**

**Repairs Needed:**

Technician will return to site to recover refrigerant. Remove and install a new compressor and compressor contactor. Install a liquid line filter drier. Pressure test to ensure that there are no leaks. Pull vacuum to proper levels. Recharge refrigerant. Start, test and ensure proper operation of system.

**RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):**

| Quantity | Line Item Number | Description  | Labor Hours | Labor Rate/Hr | Materials  | Equipment | Total      |
|----------|------------------|--|-------------|---------------|------------|-----------|------------|
| --       | NA               | Moore's Parts/Tax/Shipping/Truck fee (See Detail in Quote) | --          | --            | \$5,202.88 | --        | \$5,202.88 |
| --       | NA               | Re Michael R22 Refrigerant with tax                        | --          | --            | \$1,468.30 | --        | \$1,468.30 |
| --       | NA               | Moore's Labor  | 24          | \$120.00      | --         | --        | \$2,880.00 |
| --       | NA               | TW Coordination  | 8           | \$80.00       | --         | --        | \$640.00   |

**Estimate Summary:**

| Labor Hours | Labor Cost | Material Cost | CM Credit  | Total Cost | CE Factor | Total Estimate |
|-------------|------------|---------------|------------|------------|-----------|----------------|
| 32          | \$3,520.00 | \$6,671.18    | (\$250.00) | \$9,941.18 | 106%      | \$10,537.65    |



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

## Proposal

May 21, 2020

Quotes are valid for 30 days.

USARC - #VA050  
6002 Strathmore Rd.  
Chesterfield, VA 23237  
Email [tina.lee@tideh2o.net](mailto:tina.lee@tideh2o.net)

Contact Name Tina Lee & Adam Colopy  
Telephone 0.00  
Cell Phone 614-623-9569  
Fax Number 0.00

### DESCRIPTION OF EQUIPMENT:

Trane  
M #CGAF C204 ARA 1000DE  
S #C09E14916

### DESCRIPTION OF PROBLEM:

While conducting a site survey, technician found the breaker - for Compressor D - tripped. Technician reset the breaker. Found the compressor has arced while in operation. Compressor has failed internally.

### SCOPE OF WORK:

Technician will return to site to recover refrigerant. Remove and install a new compressor and compressor contactor. Install a liquid line filter drier. Pressure test system to ensure that there are no leaks. Pull vacuum to proper levels. Recharge with refrigerant. Start, test and ensure proper operation of system.

### MATERIAL, EQUIP OR PARTS

|                                  | Quantity | Sell price         |
|----------------------------------|----------|--------------------|
| Compressor                       | 1.00     | \$ 4,214.57        |
| Recover, Nitrogen, Torch, Vacuum | 1.00     | \$ 195.00          |
| Compressor Contactor             | 1.00     | \$ 24.23           |
| Filter Drier                     | 1.00     | \$ 66.90           |
| Shipping                         | 1.00     | \$ 390.00          |
| Material Tax                     | 1.00     | \$ 202.19          |
| Truck Fee                        | 2.00     | \$ 110.00          |
| <b>Material Total</b>            |          | <b>\$ 5,202.88</b> |

### LABOR ITEMIZED

|                    |    | Labor                 |
|--------------------|----|-----------------------|
| Labor - One Man    | 12 | \$ 120.00 \$ 1,440.00 |
| Labor - Second Man | 12 | \$ 120.00 \$ 1,440.00 |
| <b>Labor Total</b> |    | <b>\$ 2,880.00</b>    |

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

**Materials** \$ **5,202.88**  
**Labor** \$ **2,880.00**  
**TOTAL** \$ **8,082.88**

*This does not include original call cost.*

Robert Lowery, Changeout Estimator 434-309-2591  
Ian Harris, Estimator 434-309-2497  
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 personally 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,



Trane U.S. Inc.  
**RICHMOND PARTS SUPPLY**  
10404 LAKERIDGE PKWY STE 300  
ASHLAND, VA 23005  
USA  
PH: 804-747-4774  
Ashland@tranesupply.com

| Order Number       |        |
|--------------------|--------|
| 12375921           |        |
| Order Date         | Page   |
| 5/18/2020 15:33:31 | 1 of 2 |

Quote Expires On 8/16/2020

**Prepared For:**

MOORES ELECTRIC & MECH CONSTR INC  
PO BOX 119  
ALTAVISTA, VA 24517  
USA  
4343694374

**Ship To:**

MOORES ELECTRIC & MECH CONSTR INC  
101 Edgewood Ave  
Manassas  
Altavista, VA 24517-1051  
USA

Requested By: Mr. Jeremy Gray,

**P21 ID:** 1026760

**Internal Account:** 2000385

**Payment Terms:** N30

**Customer No:** 94020

**National Account ID:**

| PO Number  | Ship Route | Quoted By:     |
|------------|------------|----------------|
| COMPRESSOR |            | Frankie Sharpe |

**Unit Info: Make / Model / Serial**

C09E14916

| Quantities           |           |           | Item ID  | Pricing UOM  | Unit Price   | Extended Price |
|----------------------|-----------|-----------|--|--|--------------|----------------|
| Ordered              | Allocated | Remaining | UOM Unit Size  | Unit Size  | Store Pickup | HazMat         |
| 1                    | 0         | 1 EA      | COM06438   | EA   | 3,512.14     | 3,512.14       |
|                      |           | 1.0       | COMPRESSOR;<br>CSHA-150K-0*00/CSHA-150K-0*0<br>A, 15 TON, 400/50/3, 460/60/3, BRAZE SWEAT,<br>MINERAL OIL (OIL00045) | 1.0  | N            | N              |
| 1                    | 0         | 1 EA      | 27059005S102   | EA   | 453.73       | 453.73         |
| ***Non-Returnable*** |           |           | 1.0  | WARR: 4-5 YR TRANE OEM SCROLL COMPR<br>WARR: 4-5 YR TRANE OEM SCROLL COMPR | 1.0          | N              |
| 1                    | 0         | 1 EA      | CTR02580   | EA   | 20.19        | 20.19          |
| ***Non-Returnable*** |           |           | 1.0  | CONTACTOR; 3P 30A 120VAC / SCREWS<br>CONTACTOR; 3P 30A 120VAC / SCREWS     | 1.0          | N              |
| 1                    | 0         | 1 EA      | DHY01481   | EA   | 55.75        | 55.75          |
| ***Non-Returnable*** |           |           | 1.0  | DRIER; LIQUID LINE, 307S, 7/8 ODF<br>DRIER; LIQUID LINE, 307S, 7/8 ODF     | 1.0          | N              |

Trane U.S. Inc.  
RICHMOND PARTS SUPPLY  
10404 LAKERIDGE PKWY STE 300  
ASHLAND, VA 23005  
USA  
PH: 804-747-4774  
Ashland@tranesupply.com

| Order Number       |        |
|--------------------|--------|
| 12375921           |        |
| Order Date         | Page   |
| 5/18/2020 15:33:31 | 2 of 2 |

Quote Expires On 8/16/2020

|                       |                     |                 |
|-----------------------|---------------------|-----------------|
| <i>Total Lines:</i> 4 | <b>SUB-TOTAL</b>    | 4,041.81        |
|                       | <b>VIRGINIA TAX</b> | 164.04          |
|                       | <b>CAMPBELL TAX</b> | 2.27            |
|                       | <b>HANOVER TAX</b>  | 35.88           |
|                       | <b>QUOTE TOTAL</b>  | <b>4,244.00</b> |
|                       | <i>U.S. Dollars</i> |                 |

This is a quote, not an invoice. Prices quoted are valid for 30 days from the day of the quote unless otherwise indicated. Tax is an estimate and is subject to changes in shipping address and applicable tax rates. Shipping and Handling charges will be applied if necessary at the time of the order. Quoted items are subject to availability and are not guaranteed to be in stock. Returned parts may be subject to restocking fees and Special Order parts may not be returnable.

All purchases are subject to Trane Parts and Supplies terms of sale, [www.trane.com/PartsTermsOfSale](http://www.trane.com/PartsTermsOfSale)

