

**Region:** 5

**Location:** DE007

**CSS #:** 18585

**Maximo Work Order No.:** 8563

**Asset #:** 1739

**Date Issued:** 4/19/19

**Original Description:** The chiller is out on an alarm and will not start up. With the rising temps and the previous issues we have had with the A/C at this center I want to make sure we are able to maintain proper temps this cooling season. I do not know if this is a controls issue or a mechanical issue.

**Repairs Needed:**

Charge the system to function without installing a new compressor. (See additional detail in quote provided)

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

| Quantity | Line Item Number | Description                    | Labor Hours | Labor Rate/Hr | Materials  | Equipment | Total      |
|----------|------------------|--------------------------------|-------------|---------------|------------|-----------|------------|
| 1        | NA               | See Detail Attached            | --          | --            | \$1,275.98 | --        | \$1,275.98 |
| --       | NA               | Labor                          | 13          | \$100.00      | --         | --        | \$1,300.00 |
| 1        | NA               | SS Mechanical Diagnostic       |             |               |            |           | \$450.00   |
|          |                  |                                |             |               |            |           |            |
| 1        | NA               | CMI Oversight and Coordination | 4           | \$80.00       | --         | --        | \$320.00   |

**Estimate Summary:**

| Labor Hours | Labor Cost | Material Cost |  | Total Cost | CE Factor | Total Estimate |
|-------------|------------|---------------|--|------------|-----------|----------------|
| 17          | \$2,070.00 | \$1,275.98    |  | \$3,345.98 | 102%      | \$3,412.90     |



# S&S MECHANICAL

S&S Mechanical

Location: Newark AFRC  
1001 Ogletown Road  
Newark, DE 19711

Proposal Submitted to: Adam Colopy  
Project: DE007 WO#8563

Office # 301-574-1555

Fax # 301-574-1558

[seth@sandsmidatlantic.com](mailto:seth@sandsmidatlantic.com)  
[sandsmidatlantic.com](http://sandsmidatlantic.com)

S&S proposed to come out and investigate chiller compressor:

Diagnostic Total: \$450.00

S&S proposes to come out and charge the system to get system functioning without installing a new compressor.

- S&S will reclaim gas from unit
- S&S will charge system with nitrogen to investigate leak
- S&S will assess leak and make repair if able to
- S&S will charge system and perform all operation checks

Materials: \$1,275.98

100lbs of R410A/100R410A/\$480.00

Nitrogen/R31/ \$97.06

Cylinder/CYL200/ \$240.00

(2) Reclaim Tanks/RC30/\$336.00

Tax: \$97.92

Shipping: \$25.00

Labor: \$1,300.00

1 HVAC Technician/13Hours/\$100 rate=\$1,300.00

Full estimated total: \$3,025.98

Payments to be made as follows: 15 days upon approved invoice

Respectfully submitted: Brian Davis/Lindsay Ruby      Dated: 04/19/19

|              |                                  |
|--------------|----------------------------------|
| Order #      | <b>67621338-00</b>               |
| Terms        | <b>1% 10th prox, Net 30 prox</b> |
| Customer P/O | <b>LINDSAY</b>                   |

**Bill To:** **1098152**  
**S&S MECHANICAL BR.19**  
**4845 South Crain Highway**  
**Upper Marlboro, MD 20772**

**Ship To**  
**S&S MECHANICAL BR.19**  
**4845 South Crain Highway**  
**Upper Marlboro, MD 20772**

**Branch:**  
**United Refrigeration Inc.**  
**8710 - 8712 Edgeworth Dr.**  
**Capitol Heights, MD 20743**  
**(301)324-8404 FAX#: (301)324-8405**  
**branch19@uri.com**

|||||...|||||...|||||...|||||

|                       |                             |                  |                      |                       |
|-----------------------|-----------------------------|------------------|----------------------|-----------------------|
| Cust#: <b>1098152</b> | Order Date: <b>04/19/19</b> | Whse: <b>019</b> | Taken By: <b>NLD</b> | Sales out: <b>190</b> |
|-----------------------|-----------------------------|------------------|----------------------|-----------------------|

Special Instructions:

Ref:

| Product<br>Ln# And Description   | Quantity<br>Ordered | Quantity<br>B.O. | Quantity<br>Shipped | Qty.<br>UM | Unit<br>Price        | Amount<br>(Net) |
|--|---------------------|------------------|---------------------|------------|----------------------|-----------------|
| <b>1 RC30</b><br>REF RECLAIM 30LB CLY DEP  | <b>2</b>            |                  |                     | ea         | <b>100.00</b>        | <b>200.00</b>   |
| <b>2 RCFEE</b><br>RECOVERY SERVICE FEE   | <b>2</b>            |                  |                     | ea         | <b>40.00</b>         | <b>80.00</b>    |
| *****  |                     |                  |                     |            |                      |                 |
| All Recovered Refrigerant Returned With Less Than 98% Purity<br>Will Be Charged a \$3/lb Handling Fee. |                     |                  |                     |            |                      |                 |
| *****  |                     |                  |                     |            |                      |                 |
| <b>2 Lines Total</b>   |                     |                  |                     |            | <b>Total</b>         | <b>280.00</b>   |
|  |                     |                  |                     |            | <b>Taxes</b>         | <b>4.80</b>     |
|  |                     |                  |                     |            | <b>Invoice Total</b> | <b>284.80</b>   |
| <b>** NOT AN INVOICE OR RECEIPT **</b>   |                     |                  |                     |            |                      |                 |

\*\* This Quote Will Expire On: 05/19/19 \*\*

|              |                                  |
|--------------|----------------------------------|
| Order #      | <b>67610285-00</b>               |
| Terms        | <b>1% 10th prox, Net 30 prox</b> |
| Customer P/O |                                  |

**Bill To:** **1098152**  
**S&S MECHANICAL BR.19**  
**4845 South Crain Highway**  
**Upper Marlboro, MD 20772**

**Ship To**  
**S&S MECHANICAL BR.19**  
**4845 South Crain Highway**  
**Upper Marlboro, MD 20772**

**Branch:**  
**United Refrigeration Inc.**  
**8710 - 8712 Edgeworth Dr.**  
**Capitol Heights, MD 20743**  
**(301)324-8404 FAX#: (301)324-8405**  
**branch19@uri.com**

|||||...|||||...|||||...|||||

|                       |                             |                  |                      |                       |
|-----------------------|-----------------------------|------------------|----------------------|-----------------------|
| Cust#: <b>1098152</b> | Order Date: <b>04/18/19</b> | Whse: <b>019</b> | Taken By: <b>JJ4</b> | Sales out: <b>190</b> |
|-----------------------|-----------------------------|------------------|----------------------|-----------------------|

Special Instructions:

Ref:

| Product<br>Ln# And Description   | Quantity<br>Ordered | Quantity<br>B.O. | Quantity<br>Shipped | Qty.<br>UM | Unit<br>Price                          | Amount<br>(Net) |
|--|---------------------|------------------|---------------------|------------|--|-----------------|
| EPA Certificate #: 10981527825   |                     |                  |                     |            |  |                 |
| <b>1 100R410A</b><br>R-410A REFRIGERANT 100LB CYLINDER<br>*****HAZARDOUS MATERIAL***** | <b>1</b>            |                  |                     | ea         | <b>400.00</b>                          | <b>400.00</b>   |
| <b>2 CYL200</b><br>CYLINDER DEPOSIT \$200.00   | <b>1</b>            |                  |                     | ea         | <b>200.00</b>                          | <b>200.00</b>   |
| <b>3 RC4864</b><br>SPORLAN ACTIVATED DRIER CORE 404360<br>Interchange Prod: 404360     | <b>2</b>            |                  |                     | ea         | <b>25.73</b>                           | <b>51.46</b>    |
| <b>4 PE681G</b><br>NRI POLYOL OIL 1 GAL 68VIS  | <b>2</b>            |                  |                     | ea         | <b>102.98</b>                          | <b>205.96</b>   |
| <b>4 Lines Total</b>   |                     |                  |                     |            | <b>Total</b>                           | <b>857.42</b>   |
|  |                     |                  |                     |            | <b>Taxes</b>                           | <b>39.45</b>    |
|  |                     |                  |                     |            | <b>Invoice Total</b>                   | <b>896.87</b>   |
|  |                     |                  |                     |            | <b>** NOT AN INVOICE OR RECEIPT **</b> |                 |

\*\* This Quote Will Expire On: 04/25/19 \*\*



