



## QUOTED SERVICE REPORT

Report Date 12/18/2018

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**Service Request Number:** 1-47873229676

**Status:** Completed

**Requestor:** Raul Cozza

JOHNSON CONTROLS SALISBURY WILMINGTON CB - 0N28

812 First State Blvd

Wilmington, DE 19804-3573

(866) 589-9275

**Service Site:**

DUPONT EXPERIMENTAL STATION

DUPONT EXPERIMENTAL

Rt 141 Lancaster Pike

Wilmington, DE 19880-0000

**Bill To:**

E I DUPONT DENEMOURS CO

1325779

Attn Accounts Payable Department

Po Box 80040

Wilmington, DE 19880-0040

**Purchase Order:** 6501711947

**Blanket Purchase Order:**

**Customer Authorization:**

**Customer Work Order:**

**Quoted Amount:** \$1,296.26

**Service Requested:**

(6501711947)

CHILLER #10:

Due to Refrigerant Leaks discovered on 03/03/2017 the following work is Recommended:

Transfer entire R134A charge to YORK Central Recovery Tank

Document weight of charge and calculated percentage loss based on design

Provide DuPont with documentation

Transfer recovered charge back into the Chiller after Leak Repair or DuPont's declining to repair

**Service Provided:**

| Date       | Activity Number | Activity Status | Work Performed                                                                                                                                                                                                                                                                                                                                                                                                      | By           |
|------------|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 03/06/2017 | 1-LZQHJJS       | Completed       | CHILLER #10 CHARGE TRANSFER<br>DUPONT PO#: 6501711947<br>JCI QUOTE#: 1-LZ5V6Q7<br><br>• Due to the Refrigerant Leaks discovered during Annual Maintenance, the refrigerant charge was transferred to the YORK Central Recovery Tank and accurately weighed, in order to achieve a baseline for future leak rate calculations.<br><br>TOTAL R-134a CHARGE RECOVERED= 3,270lbs<br><br>CHILLER DESIGN CHARGE= 3,250lbs | Kevin Frazee |

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Version: Release # PHL 3

Lynn Dolphin

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| Service Provided: |                 |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |
|-------------------|-----------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Date              | Activity Number | Activity Status | Work Performed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | By           |
| 03/07/2017        | 1-M0CVH5X       | Completed       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Kevin Frazee |
| 03/14/2017        | 1-M2QSSZM       | Completed       | <ul style="list-style-type: none"> <li>Transferred CHILLER DESIGN CHARGE (3,250lbs) from the YORK Central Recovery Tank back into CHILLER #10, after all refrigerant leaks were repaired (on separate jobs), and Chiller Evacuation was completed.</li> </ul> <p>CURRENT CHILLER CHARGE= 3,250 lbs (as of 03/14/2017)<br/>DESIGN CHARGE= 3,250 lbs<br/>CURRENT CHARGE DEFICIT= 0 lbs</p> <ul style="list-style-type: none"> <li>Will provide DuPont with proper documentation of Refrigerant Transfer, Weighing, and Leak repair.</li> </ul> | Kevin Frazee |
| 03/08/2017        | 1-M0Y0FMU       | Completed       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Kevin Frazee |

| Materials Used: |  |
|-----------------|--|
| Description     |  |

| Refrigerant Tracking: |                  |        |        |           |              |               |              |            |             |               |           |
|-----------------------|------------------|--------|--------|-----------|--------------|---------------|--------------|------------|-------------|---------------|-----------|
| Activity #            | Action Taken     | Type   | Amount | Asset ID  | Customer Tag | Serial Number | Model Number | Circuit ID | Circuit Tag | Leak Location | Leak Rate |
| 1-M2QSSZM             | Recovery Reclaim | R-134a | 3250   | 1-FNV12L6 | CHILLER #10  | GACM127699    | OTT4G2-ZBES  |            |             | PIPING        |           |
| 1-M0Y0FMU             | Recovery Reclaim | R-134a | 20     | 1-FNV12L6 | CHILLER #10  | GACM127699    | OTT4G2-ZBES  |            |             | NA            |           |

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Note: The EPA requires owners or operators to take corrective action within 30 days\* when an appliance with a full charge of 50 or more pounds is leaking at a rate that exceeds the trigger leak rate for the Appliance Type. For more information, please see the EPA.gov website for Section 608 of the Clean Air Act ([www.epa.gov/section608](http://www.epa.gov/section608)). \* State regulations may vary – California regulations require leak repair within 14 days.

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### Service Order Warranty Terms and Conditions

#### **PARTS WARRANTY:**

Johnson Controls, Inc. (JCI) warrants that original equipment, parts or components manufactured or labeled by JCI shall be free from defects in material and workmanship under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment. Equipment, parts or components not manufactured or labeled by JCI shall carry a warranty from defects in material and workmanship under normal usage and proper installation and maintenance for a period of ninety (90) days from the date of shipment. Notwithstanding the foregoing, in the event JCI is reasonably able to identify a warranty for a period longer than the ninety (90) days applicable to equipment, parts or components not manufactured or labeled by JCI, it will assign all assignable rights under such warranty to Customer and reasonably cooperate in the enforcement of any warranty claim. Recertified or replacement parts installed on equipment and still under the original equipment manufacturer's warranty are covered for ninety (90) days or the remainder of the original equipment manufacturer warranty period, whichever is longer. For large tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: screw compressors, motors, control panels and components, VFD's and components and Liquid Cooled Solid State Starters and components. For small tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: scroll compressors, condenser coils, control panels and components, screw compressors (DXS and Mustang), and fan motors. In the event of a valid warranty claim, the Customer's remedy shall, at JCI's sole discretion and subject to the exclusions herein, be limited to repair or replacement of the subject equipment, part or component conditioned upon the return to JCI of any defective equipment, part or component. This Parts Warranty does not cover any shipping, handling or transportation charges or any associated labor costs.

#### **LABOR WARRANTY:**

Johnson Controls, Inc. (JCI) warrants its workmanship or that of its agents in relation to installation of materials for a period of ninety (90) days from date of installation or with respect to service work for a period of ninety (90) days from the date of service. Customer acknowledges that re-performance shall be its exclusive and only remedy with regards to any services provided by JCI. Customer shall bear all labor costs associated with the repair or replacement of failed material that is outside the scope of this express labor warranty. All warranty labor shall be executed during JCI normal business hours.

These warranties do not extend to any equipment which has been repaired by others, abused, altered, or misused in any way, or which has not been properly and reasonably maintained.

THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE. UNDER NO CIRCUMSTANCES SHALL JCI BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING FROM OR RELATING TO ANY DEFECT IN MATERIAL OR WORKMANSHIP OF EQUIPMENT OR THE PERFORMANCE OF SERVICES.

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