



## QUOTED SERVICE REPORT



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**Service Request Number:** 1-63695549302

**Status:** Scheduled

**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:** 6501866668

**Blanket Purchase Order:**

**Customer Authorization:**

**Customer Work Order:**

**Quoted Amount:** \$6,098.22

**Service Requested:**

6501866668

CHILLER #10 REFRIGERANT LEAK REPAIRS (2018):

DUE TO REFRIGERANT LEAKS DISCOVERED ON 03/23/2018 THE FOLLOWING WORK IS RECOMMENDED:

TRANSFER ENTIRE R-134A CHARGE TO YORK CENTRAL RECOVERY TANK  
DOCUMENT WEIGHT OF CHARGE AND CALCULATED PERCENTAGE LOSS BASED ON DESIGN

REPAIR OF THE FOLLOWING LEAKS FOUND ON 03/23/2018:

- OIL COOLER THERMOSTATIC VALVE O-RING SEAL
- 2" HOT GAS VALVE O-RING SEALS
- GASKETS ON BOTH RUPTURE DISKS
- HIGH SPEED THRUST COVER PLATE O-RING SEAL
- 3/8 COPPER FLARE ON OIL-RETURN LINE

VERIFY LEAK TIGHTNESS WITH NITROGEN PRESSURE TEST  
EVACUATE / DEHYDRATE CHILLER & PERFORM VACUUM HOLD TEST  
TRANSFER RECOVERED CHARGE BACK INTO CHILLER  
PROVIDE DUPONT WITH EPA DOCUMENTATION

For Questions Regarding Service, Please Contact:  
Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
04/02/2018	1-T9EPJ6P	Completed	CHILLER #10 REFRIGERANT LEAK REPAIRS (2018) DUPONT PO#: 6501866668 JCI QUOTE#: 1-T60E4O9 SR#: 1-63695549302  03/30/2018: - Order Material and Parts for Refrigerant Leak Repair Work  04/02/2018: - Picked up Garlock 3504 (G49B) Gaskets for Rupture Disks  04/04/2018: - Isolated Oil Return / Filter-Drier Line - Transferred Refrigerant from Line to Evaporator - Disassembled Copper Flare Connections to Filter-Drier - Cut off Leaking Flare (Downstream of Filter-Drier) & Re-Flared - Reassembled Line. Pressure Tested with Nitrogen. Ensured No Leaks - Evacuated Oil Return Line and Re-Opened to System  ** All other Refrigerant Leaks discovered on 03/23/2018 require the Recovery of the Entire Charge. Will wait for Customer to Shutdown & Lockout Chiller, before completing the remaining repairs **	Kevin Frazee
06/07/2018	1-T9EOOHZ	Completed	06/07/2018: - Documentation of Work Completed thus far - Still waiting for Customer to Shutdown & Lockout Chiller, before completing the remaining repairs	Kevin Frazee

Materials Used:	
Description	
2" 300# 1/8" THK GYLON 3504 RING GASKET	
2" 300# 1/16" THK GYLON 3504 RING GASKET	

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<b>Materials Used:</b>
<b>Description</b>
PLUG PIPE 1/16 HEX SOC / 023 05366 000
LUB VALVE STEM 2OZ IN TIN / 360 00125 000
SEAL O RING 3/16 IDX1/16 / 028 10156 000
SEAL O RING 5.340 / 028 10157 000
SEAL O'RING NEOPRENE / 028 16523 235

<b>Refrigerant Tracking:</b>									
<b>Activity #</b>	<b>Action Taken</b>	<b>Type</b>	<b>Amount</b>	<b>Asset ID</b>	<b>Customer Tag</b>	<b>Serial Number</b>	<b>Model Number</b>	<b>Leak Location</b>	<b>Leak Rate</b>
No Refrigerant Activity Recorded To Date									

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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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