



## QUOTED SERVICE REPORT

\*Scan the QR Code to see new offerings

**Service Request Number:** 1-84970455839

**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:** 2600046300

**Blanket Purchase Order:**

**Customer Authorization:**

**Customer Work Order:**

**Quoted Amount:** \$4,874.23

**Service Requested:**

CHILLER #9 LEAKING PRV SHAFT SEAL REPLACEMENT

REPAIR OF THE FOLLOWING REFRIGERANT LEAK FOUND ON 03/01/19:

COMPRESSOR PRE-ROTATION VANE SHAFT SEAL

- DISMANTLE & REMOVE OLD SEAL ASSEMBLY

- FURNISH & INSTALL NEW SEAL ASSEMBLY WITH NEW ORINGS, GASKET,  
& FASTENERS

- PROPERLY SET & TORQUE SEAL

VERIFY LEAK TIGHTNESS WITH NITROGEN PRESSURE TEST

PERFORM EVACUATION/DEHYDRATION, & VACUUM HOLD TEST

PROVIDE DUPONT WITH EPA LEAK REPAIR DOCUMENTATION

\*\*\*\* WORK COVERED BY JCI QUOTE# 1-1317PHFL \*\*\*\*

TRANSFER OF R-134A CHARGE TO YORK CENTRAL RECOVERY TANK

DOCUMENT WEIGHT OF CHARGE & CALCULATED PERCENTAGE LOSS BASED ON DESIGN

TRANSFER RECOVERED CHARGE BACK INTO CHILLER

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
03/08/2019	1-13197RGD	Completed	<p>CHILLER #9 LEAKING PRV SHAFT SEAL REPLACEMENT</p> <ul style="list-style-type: none"> <li>• Dismantled &amp; Removed Old Compressor Pre-Rotation Vane Shaft Seal Assembly</li> <li>• Installed New Control Shaft Seal w/ New Orings, Gasket, &amp; Fasteners</li> <li>• Properly Set Full Open/Closed Positions &amp; Torqued Seal</li> <li>• Installed New Seal Assembly with New Gasket, O-Rings, Control Shaft, and Bolts</li> <li>• Set Appropriate Positioning and Torqued to Spec (Shaft=75 Ft/Lbs / Cover=35 Ft/Lbs)</li> <li>• Reconnected PRV Actuator, Checked, &amp; Adjusted to Proper Travel</li> </ul> <ul style="list-style-type: none"> <li>• Chiller was pressurized with 120 psig of Nitrogen &amp; R-134a Trace gas, and verified LEAK-FREE with an Electronic Leak Detector</li> <li>• Pressure was released and Evacuation Started</li> <li>• Evacuation was stopped at 760 microns and Vacuum Hold Test performed for 2Hrs</li> <li>• Vacuum rise was Negligible (&lt;10 microns/hr) (VERY GOOD)</li> </ul> <ul style="list-style-type: none"> <li>• Chiller was recharged with 3,250 Lbs of R-134A (covered under SR#: 1-84970456182) on 03/08/2019</li> </ul>	Kevin Frazee

Materials Used:
Description
SEAL O RING 1 IDX1/8 S / 028 04522 000
SHAFT CONTL PREROT DEVICE / 364 29573 000
SEAL O RING 1-1/8 IDX1/8 / 028 04353 000
005 SCREW CAP 12PT HD 3/8 / 221 11175 800
SCREW, CAP / 021 11998 000
GASKET / 028 00781 000

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Refrigerant Tracking:											
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Circuit ID	Circuit Tag	Leak Location	Leak Rate
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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