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QUOTED SERVICE REPORT

Service Request Number: 1-84773414048

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: 2600034674

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$2,000.00

Service Requested:

CHILLER #8 CHARGE TRANSFER & WEIGHING:

DUE TO REFRIGERANT LEAKS DISCOVERED ON 01/30/2019 THE FOLLOWING WORK IS RECOMMENDED:

TRANSFER ENTIRE R-134A CHARGE TO YORK CENTRAL RECOVERY TANK
DOCUMENT WEIGHT OF CHARGE & CALCULATE PERCENTAGE LOSS BASED ON DESIGN
TRANSFER RECOVERED CHARGE BACK INTO THE CHILLER AFTER LEAKS ARE REPAIRED (AS DECIDED BY DUPONT)
DOCUMENT AMOUNT RECHARGED BACK TO CHILLER IN ORDER TO ACHIEVE A BASELINE FOR FUTURE LEAK RATE CALCULATIONS

Service Provided:

Date	Activity Number	Activity Status	Work Performed	By
02/15/2019	1-12WBLJFT	Completed	Began refrigerant transfer.	Kevin Frazee

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
02/22/2019	1-12VLGCZN	Completed	<p>CHILLER #8 CHARGE TRANSFER</p> <ul style="list-style-type: none"> • Due to the Refrigerant Leaks discovered 01/30/2019 (during Annual Maintenance), it was recommended that the refrigerant charge be transferred to the YORK Central Recovery Tank, accurately weighed, and leak rate percentage calculated, so that DuPont can make a decision regarding repairs and also to achieve a baseline for future leak rate calculations. <p>02/15/2019 - RECOVERY:</p> <ul style="list-style-type: none"> • Performed Recovery of CHILLER #8's R-134A Charge. Transferred refrigerant to the YORK Central Recovery Tank, until Chiller reached a vacuum depth of 18"Hg, Weighed, & Documented ◊ CHILLER DESIGN CHARGE= 3,250 LBS ◊ TOTAL R-134A RECOVERED= 2,850 LBS (02/15/2019) ◊ DEFICIT= 400 LBS (12.3% LOW) ◊ LAST TIME REFRIG WAS ADDED: 05/01/2018 (290 Days) ◊ PRESUMED CHARGE at that TIME: 3,250 LBS ◊ ANNUALIZED LEAK RATE (Based on EPA Formula)= 15.5% <p>• Informed DuPont, and Leak repairs were approved & performed under SR#: 1-84701513778</p> <p>02/22/2019 - RECHARGE:</p> <ul style="list-style-type: none"> • Evacuation was not required, because the leaks were isolatable, and Chiller was not opened to atmosphere ◊ RECOVERED CHARGE WAS RE-INSTALLED= 2,850 LBS ◊ ADDITIONAL CHARGE ADDED FROM DUPONT'S TANK SURPLUS= 400 LBS ◊ CURRENT CHILLER CHARGE= 3,250 LBS (as of 02/22/2019) 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
			<ul style="list-style-type: none"> ◇ CHILLER DESIGN CHARGE= 3,250 LBS ◇ CURRENT CHARGE DEFICIT= 0 LBS 	

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
1-12VLGCZ N	Add Refrig Leak Test Repair	R-134a	400	1-FY0MJZY	CHILLER #8	GACM117864	OTT4G2-ZBES	1-YEWPCA2	Circuit 1	GASKET	12.31

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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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