



QUOTED SERVICE REPORT



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Service Request Number: 1-45765849262
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: 6501691743
Blanket Purchase Order:
Customer Authorization:
Customer Work Order:
Quoted Amount: \$5,819.01

Service Requested:

CHILLER. #8 RELIEF TREE INSTALL

Transfer Refrigerant to DuPonts Central Storage Tank according to EPA Specs. Record quantity recovered.

Break Vacuum w/Nitrogen & Remove Current Relief Device.

Install New 3-Way Valve, Relief Tree, and Relief Devices.

Pressurize w/Nitrogen, Leak Test Entire Chiller.

Evacuate Chiller & Perform Vacuum Hold Test.

Recharge, Run, and Inspect Chiller Performance.

DuPont will be responsible for providing all material to be installed and for constructing a scaffold that will allow the work to be carried out safely

Service Provided:

Date	Activity Number	Activity Status	Work Performed	By
01/20/2017	1-L0VSZJ4	Completed		Kevin Fraze

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Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
01/23/2017	1-L1R58K6	Completed	<p>CHILLER #8 RELIEF TREE JOB DuPont PO#: 6501691743 JCI QUOTE#: 1-FRO6QSB</p> <p>Coordinated with DuPont Personnel for Shutdown and Lockout of CHILLER #8.</p> <p>Verified Operation of Central Recovery Pump Out Unit and began Transferring CHILLER #8's R-134A charge into the Central Recovery Tank.</p> <p>Began organizing material for Installation of new Relief Devices.</p> <p>Stopped Recovery and Isolated. Will finish Vapor Recovery tomorrow.</p>	Kevin Frazee
01/24/2017	1-L250YRA	Completed	<p>Completed Recovery down to EPA Required Spec of 15"hg Vacuum. Refrigerant is being stored in the YORK Central Recovery Tank.</p> <p>TOTAL R-134A Recovered= 2,920lbs DESIGN CHARGE= 3,300lbs SHORT: 380lbs</p> <p>Brought Chiller up to Atmospheric Pressure with Powerhouse Nitrogen and safed off.</p>	Kevin Frazee
01/25/2017	1-L2NPFDP	Completed	<p>Dismantled and Removed Old Rupture Disk / Relief Valve Assembly from the Chiller, and Capped flange with pressure gauge.</p> <p>Chiller shell will remain capped, isolated, and at atmospheric pressure until DuPont approves use of GARLOCK 3300 Gaskets on new Rupture Disks, 3-Way Valve, and interconnecting 300# 2" Flanges.</p>	Kevin Frazee
02/02/2017	1-L4S9CHR	Completed	<p>Prepped for installation work. Organized materials provided by DuPont, including Garlock 3300 Gaskets.</p>	Kevin Frazee

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Date	Activity Number	Activity Status	Work Performed	By
02/03/2017	1-LAW98P1	Completed	Installed 3-Way Valve, 2 Rupture Disks, Interconnecting Piping, & 2 Relief Valves (Provided and Tagged by DuPont's Pressure Vessel Group). Torqued all Flanges to Specs and Connected Relief Valve "A" to Exhaust Pipe. Relief Valve "B" Outlet was Plugged.	Kevin Frazee
02/06/2017	1-LDPYGR2	Completed	Pressurized Chiller with Trace Gas and Nitrogen up to 120psig Verified that Newly Installed Relief Devices and Interconnecting Piping were Leak Free with Electronic Leak Detector and Soap Bubbles. Installed Relief Gauges & Copper Tubing from above each Rupture Disk to the common Release Pressure Switch. Verified Switch Closure at 50psig & Alarm Point activation on the Powerhouse Main Control System.	Kevin Frazee
02/07/2017	1-LEAP0SA	Completed	Released Nitrogen Pressure. Evacuated Chiller down to 1000 microns. Performed Vacuum Hold Test. OBSERVED= 120u/hr Rise (Good) YORK MAX LIMIT= 650u/hr Rise	Kevin Frazee
02/08/2017	1-LESDELS	Completed	Transferred back the recovered R-134A charge (2,920lbs). Added an Additional 150lbs from the YORK Central Recovery Tank. CURRENT TOTAL CHILLER CHARGE= 3,070lbs TOTAL DESIGN CHARGE= 3,250lbs CURRENT CHARGE DEFICIT= 180lbs	Kevin Frazee
02/16/2017	1-LMIW5PD	Completed	Completed Documentation for Job	Kevin Frazee

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Materials Used:
Description
Pipe Thread Sealant,250mL,Tube,Low,White
Cable Tie Mounting Pad,2-Way,NatrI,PK100
Flange Gasket,2 in.,1/8 in.,Blue,PTFE

Refrigerant Tracking:									
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Leak Location	Leak Rate
1- LMIW5PD	Add Refrig Lk Tst Rep Rcov Rcl	NA	150		CHILLER #8	GACM117864	OTT4G2-ZBES	ACCESS VALVE	4.62
1- L1R58K6	Recovery Reclaim	NA	2920		CHILLER #8	GACM117864	OTT4G2-ZBES	NA	0

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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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