



QUOTED SERVICE REPORT



*Scan the QR Code to see new offerings

Service Request Number: 1-57829091567

Status: Scheduled

Requestor: Chris Coliukous

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: 6501812408

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$8,101.75

Service Requested:

CHILLER #7 RELIEF RETROFIT SERVICE & SUPPORT

Perform Lockout of CHILLER #7 in Coordination with DuPont

Transfer Chiller Charge to Central Recovery Tank per EPA Regs & Record Weight

Verify all Sections of Chiller are Depressurized & Purged with "House" Nitrogen

Disassemble & Remove the Two 2" Evaporator Rupture Disks, allowing for the Assigned Mechanical Contractor to proceed with Piping Modifications and Installation of the New Relief Header

All Piping & Installation of Piping; Rupture Disks, Relief Valves, and 3-Way Valve for the Evaporator shall be Provided by the Assigned Contractor and/or DuPont

Installation of the Two New Rupture Disks w/ appropriate Gaskets/Fasteners will be performed by Johnson Controls

(Appropriate Torque will be Determined, Set & Documented)

All interconnecting Piping must be in place and within specs for Misalignment / Strain, previous to Disk Installation

After all Relief Work is Complete, the Chiller will be Pressurized with Nitrogen

All new Refrigerant Connections will be Tested

Any Leaks discovered on the piping installed by the Mechanical Contractor, will be their responsibility to repair

After Piping & Relief Devices are Verified Leak Free, Nitrogen Pressure will be Safely Vented Outdoors

Entire Chiller will then be Evacuated, followed by a Vacuum Hold Test (Verifying Tightness and Dryness of System)

Refrigerant Charge will be Transferred back into the Chiller

EPA Refrigerant Documentation will be Provided

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Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
01/11/2018	1-QN4J5RO	Completed	<p>1/5/18</p> <ul style="list-style-type: none"> - Performed a "Double" Evacuation of the Chiller (Atmospheric to 5,000 microns, back to Atmospheric with Nitrogen, then back to 5,000 microns and hold) - Vacuum held at 5,000 microns (Indicating an Absence of Moisture) - Continued Evacuation into Deep Vacuum over weekend <p>1/8/18</p> <ul style="list-style-type: none"> - Shut off and Isolated Vacuum Pump - Final Vacuum Level: 326 microns - Performed Vacuum Hold Test overnight <p>1/9/18</p> <ul style="list-style-type: none"> - Vacuum Level rose to 1240 microns over a period of 23hrs - Calculated Rise= 53.9 microns/hr (GOOD) - Continued Evacuation back into a Deep Vacuum overnight <p>1/10/18</p> <ul style="list-style-type: none"> - Isolated and detached Vacuum Pump from the Chiller - Re-torqued Rupture Disk Flanges - Re-Installed 900 Lbs (Vapor) of the Recovered R-134A Charge, bringing Chiller Pressure up to 38 PSIG Static <p>1/11/18</p> <ul style="list-style-type: none"> - Transferred 6,100 Lbs (Liquid) of the Recovered R-134A Charge back into the Chiller <p>1/12/18</p> <ul style="list-style-type: none"> - Completed Chiller Re-Charge by Transferring 1,970 Lbs left remaining in the Central Recovery Tank to the Chiller. <p>TOTAL CURRENT R-134A CHARGE= 8,970 LBS (100% of Design)</p>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
01/26/2018	1-RL72D0N	Completed	- Documentation	Kevin Fraze
12/06/2017	1-QN4J5QJ	Completed	<p>11/17/17</p> <ul style="list-style-type: none"> - Completed Vapor Recovery of Chiller #7 - Isolated and Tagged Out #7's Refrigerant Recovery Valves - Transferred the Refrigerant left in the Common Recovery Liquid Line into the Central Recovery Tank to Weigh Total Charge Recovered from Chiller #7 <p>NET LIQUID= 7,050 LBS NET VAPOR= 1,280 LBS NET from LIQUID LINE= 310 LBS TOTAL R-134A RECOVERED= 8,640 LBS CHILLER DESIGN CHARGE= 8,970 LBS CHARGE DEFICIT= 330 LBS (3.68% LOW) LAST DATE OF CONFIRMED FULL CHARGE: 06/06/17 (220 Days)</p> <ul style="list-style-type: none"> - Broke #7's Vacuum with Site Nitrogen and left 5psig Static Nitrogen Charge on Chiller until Old Relief System is Ready for Removal <p>11/20/17</p> <ul style="list-style-type: none"> - Verified all Sections of Chiller were Depressurized & Purged with "House" Nitrogen - Disassembled & Removed the Original Evaporator Rupture Disks and Relief Valves <p>12/1/17 - 12/6/17</p> <ul style="list-style-type: none"> - Assisted MDAVIS with installation of New Relief Piping by providing a Nitrogen Purge and Ensuring Air was kept out of the Chiller 	Kevin Fraze

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
12/07/2017	1-QN4J5R9	Completed	<p>12/7/17</p> <ul style="list-style-type: none"> - Prepped for ASME 31.5 Code Pressure Test of New Refrigerant Piping (1.1xDWP) w/Nitrogen * and purchased a 235psi Safety Relief Valve to be used with Nitrogen Cylinders. <p>* KBR & DuPont, in the end, decided not to preform this test</p> <p>12/27/17</p> <ul style="list-style-type: none"> - Installed the two New Rupture Disks with 1/16" GARLOCK GYLON 3504 (GB49B) Gaskets and Torqued to BS&B spec of 62 Ft/Lbs. Installed 1/8" GARLOCK GYLON 3504 (GB49B) Gaskets between mating flanges of the 3-Way Valve and Torqued to 165 Ft/Lbs <p>12/28/17</p> <ul style="list-style-type: none"> - Added approximately 40 Lbs of R-134A to Chiller, as Trace Gas - Brought Chiller Pressure up to 100 PSIG with "House" Nitrogen - Checked all New Welds, Flanges, and Rupture Disks for Leaks with Electronic Leak Detector and Soap Bubbles. - NO LEAKS FOUND - Safely released Nitrogen Pressure outdoors 	Kevin Frazee
12/29/2017	1-QY1YBCB	Completed	<p>12/5/17</p> <ul style="list-style-type: none"> - Continuation of Nitrogen Purge during Relief Piping Installation - Assembled New BS&B 3" (185psig) SKR (316SS) into BS&B SRB-7RS (316SS) 300# Holders & Properly Torqued Pre-Assembly Bolts to 13 Ft/Lbs and prepped for Installation 	Kevin Frazee

Materials Used:	
Description	
SUPERIOR RELIEF VLV 1/2N	
Gaskets	

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Refrigerant Tracking:									
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Leak Location	Leak Rate
1- RL72D0N	Add Refrigerant/Leak Test	NA	290		CHILLER #7	MRP626904	OM3000	ACCESS VALVE	5

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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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