



EPA Refrigerant Conservation Services Report



Customer: DuPont Experimental Station

Date: 03/15/2017

Location: E315 Powerhouse

Equipment ID: CHILLER #10

Equipment Type:	
Industrial Process / Com. Refrigeration	
Commercial - Over 50 lbs Refrigerant	<input checked="" type="checkbox"/>
Commercial-Under 50 lbs Refrigerant	

Refrigerant Leak Verification Test - 03/03/2017

Source of Leak: 1-1/2" THREADED LIQUID REFRIG TEE FEEDING OIL COOLER. (LARGE)

Corrective Action: Removed & Replaced with New Fittings, Piping, & Loctite 554 Refrig. Thread Sealant (03/10/2017)

Source of Leak: COMP. OIL RESERVOIR EQUALIZING LINE 1/4" Threaded Flare Elbow (SMALL)

Corrective Action: Removed, Cleaned Threads, Re-Installed with Loctite 554 Refrig. Thread Sealant (03/10/2017)

Source of Leak: PRV SHAFT SEAL (Medium)

Corrective Action: Removed / Replaced PRV Shaft Seal with NEW Parts (03/10/2017)

Initial Leak Verification Test : Pass Failed

Was Leak Repaired? Yes No Owner Declined Repair

Verification Test Method: Electronic Detector & Soap Bubbles (120psig Nitrogen Pressure w/R-134a Trace)

Refrigerant Usage Recovered Refrigerant Re-Charged to Chiller - 03/14/2017

Refrigerant Type: (Circle One) R-11 R-12 R-22 R-123 R-134a R-407c R-410a Other:

Refrigerant Lbs. Used: 0 Factory Charge or Approximate Charge: 3,250 lbs

Refrigerant Supplied By: Customer JCI Other, Explain _____

Refrigerant Recovery 03/07/2017 (Technician Certification Cards on File at JCI Local Office)

Recovery Unit Model# YORK RTU-10 Serial # 61795205-91012424 Mfg. Date Before 11/15/93 Yes No

Refrigerant Type: (Circle One) R-11 R-12 R-22 R-123 R-134a R-407c R-410a Other:

Refrigerant Re-Charged to Sys.? Yes No - 03/14/2017 Refrigerant Lbs. Recovered: 3,270 lbs

Refrigerant Not Re-Charged, Explanation: _____

Refrigerant Leak Rate Formula for Units Greater Than 50 Lbs

(0 lbs. Refrig. Added / 3250 lbs. in Full Charge) x (365 / Lesser of 365 Days or # of Days Since Refrig. Added) x 100

Refrigerant Leak Rate Percent: 0% Minimal refrigerant leaks were found.

Leak Rate found in excess of 15% 35% annual charge which exceeds legal EPA leak rates.

30-Day Refrigerant Follow-up Verification Test

Date Test Performed: 03/15/2017 Pass Failed

Comments: Verified w/ Electronic Detector & Soap Bubbles (Chiller Pressure @ 60psig). After charge installed.

Additional Comments: Chiller #10 was evidently over-charged. The amount of refrigerant added last time it was charged is unknown. The extra 20lbs over design recovered was left in the York Central Recovery Tank.

Technician Signature: [Signature]

Customer Signature: _____