



EPA Refrigerant Conservation Services Report



Customer: DuPont Experimental Station

Date: 01/23/2019

Location: E315 Powerhouse

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

Equipment ID: CHILLER #10 (S/N: GACM127699)

Refrigerant Leak Verification Test - 12/07/2018

- [1] Source of Leak: OIL PUMP SHAFT SEAL
 [1] Corrective Action: Installed New Oil Pump (01/18/2019)
- [2] Source of Leak: _____
 [2] Corrective Action: _____
- [3] Source of Leak: _____
 [3] Corrective Action: _____
- [4] Source of Leak: _____
 [4] Corrective Action: _____
- [5] Source of Leak: _____
 [5] Corrective Action: _____

Initial Leak Verification Test : Pass Failed
 Was Leak Repaired? Yes No Owner Declined Repair
 Verification Test Method: Electronic Detector & Soap Bubbles (110psig Nitrogen Pressure w/R-134a Trace)

Refrigerant Usage Recovered & New Refrigerant Charged to Chiller - 01/23/2019

Refrigerant Type: (Circle One) R-11 R-12 R-22 R-123 R-134a R-407c R-410a Other:
 Refrigerant Lbs. Used: 30 lbs Factory Charge or Approximate Charge: 3,250 lbs
 Refrigerant Supplied By: Customer JCI Other, Explain _____

Refrigerant Recovery 12/19/2018 (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 Refrigerant Lbs. Recovered: 3,220 lbs
 Refrigerant Not Re-Charged, Explanation: _____

Refrigerant Leak Rate Formula for Units Greater Than 50 Lbs

(30 lbs. Refrig. Added / ~~3250~~ lbs. in Full Charge) x (365 / 12 # of Days Since Refrig. Added) x 100
 Refrigerant Leak Rate Percent: 28.0% 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: - 01/23/2019 Pass Failed
 Comments: Verified w/ Electronic Detector & Soap Bubbles (Chiller Pressure @ 60psig). After charge installed.

Additional Comments: _____

Technician Signature: [Signature] Customer Signature: _____