



# 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 legel 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: \_\_\_\_\_