



# EPA Refrigerant Conservation Services Report



Customer: DuPont Experimental Station

Date: 03/08/2019

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 #9 (GACM127698)

### Refrigerant Leak Verification Test - 03/01/2019

Source of Leak: Pre-Rotation Vane Shaft Seal

Corrective Action: Removed / Replaced PRV Shaft Seal with NEW Parts

Source of Leak: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

Source of Leak: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

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 - 03/08/2019

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

Refrigerant Lbs. Used: 180 lbs Factory Charge or Approximate Charge: 3,250 lbs

Refrigerant Supplied By:  Customer  JCI  Other, Explain \_\_\_\_\_

### Refrigerant Recovery - 03/05/2019 (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: 3,070 lbs

Refrigerant Not Re-Charged, Explanation: \_\_\_\_\_

### Refrigerant Leak Rate Formula for Units Greater Than 50 Lbs

( 180 lbs. Refrig. Added / 3,250 lbs. in Full Charge ) x ( 365 / 735 # of Days Since Refrig. Added ) x 100

Refrigerant Leak Rate Percent: 5.5 %  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: 03/08/2019  Pass  Failed

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

Additional Comments: \_\_\_\_\_

Technician Signature: [Signature]

Customer Signature: \_\_\_\_\_