



BULLETIN # 09T-03

Carlyle Compressor Division
PO Box 4808
Carrier Parkway, TR2
Syracuse, NY 13221

SUBJECT: **06D/E & 06CC Models Approved for R-407A Applications**

DATE: November 16th, 2009
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Product Name: 06D, 06E, 06CC Models

DESCRIPTION

Carlyle is pleased to announce the approval of R-407A refrigerant for low and medium temperature refrigeration applications with the 06D/E and 06CC model types. With the phase-out of R-22 at hand we now have the opportunity to apply R-407A refrigerant in new OEM equipment. Refrigerant 407A delivers comparable capacity and efficiency to R-22 while offering a zero Ozone Depletion Potential (ODP) and comparable Global Warming Potential (GWP).

APPROVED APPLICATION RANGES

06DR/06ER - Low Temperature Models^{1, 2, 3 & 4}

- SST = -35° F to 0° F
- SDT = 70° F to 120° F

06DM/06EM - Medium Temperature Models⁴

- SST = 0° F to 45° F
- SDT = 70° F to 130° F

06DA/06EA - High Temperature Models⁴

- SST = 0° F to 55° F
- SDT = 70° F to 130° F

06CC - Low Temperature Models^{3 & 4}

- SST = -40° F to -10° F
- SDT = 70° F to 130° F

NOTES

1. Extended Range 06DR models are not approved at SST's above 0 degrees F with R-407A
2. Operation below 0° F SST requires a cylinder head cooling fan and de-superheating valve.
3. Cylinder head cooling fan recommended, de-superheating valve required, same packages as R-22 Applications.
4. Maximum Return Gas Temperature is 65° F



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RECOMMENDED LUBRICANTS AND ACCESSORIES

- **Approved Lubricants:**

See below table:

Castrol.....	E68
ICI Emkerarate	RL68H
CPI	CP-2916S
CPI	Solest 68
BP Marine Enersyn	MP-S68

- **Capacity Control Packages:**
 - Same packages as currently offered for all 06D/E models.
 - Follow R-22 Application Guidelines for unloading at various SST ranges.
 - 06CC Models may not be unloaded.
- **Service Valves:**
 - Same Packages as currently offered.
- **De-Superheating:**
 - Required for all Low Temperature, 06D/E applications with R-407A.
 - Required for all 06CC applications with R-407A.
 - Same packages as currently offered for R-22 applications.
- **Cylinder Head Cooling Fans:**
 - Required for 06D/E Models with design SST's at 0° F and lower
 - Same packages as specified in Carlyle Technical Bulletin 08T-3.
 - Recommended for all 06CC models.
- **Oil Pressure Safety Switches:**
 - Recommended for all applications.
 - Same packages as specified for 06D/E/CC models in R-22 applications.
- **Crankcase Heaters:**
 - Recommended for all applications.
 - Same packages as specified for 06D/E/CC models in R-22 applications.
- **Mufflers / Baffle Plates:**
 - Same packages as specified for 06D/E/CC models in R-22 Applications
- **Sub-Coolers:**
 - Recommended for all 06CC applications
 - Same as specified for 06CC models in R-22 Applications
 - Use Carlyle Solutions software to calculate the sub-cooler loads



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MOTOR PROTECTION AND CODE APPROVALS

Motor protection device recommendations do not change for the 06D/E/CC models applied with R-407A. Please refer to the Application Guides for the 06D/E and 06CC models for further details. Carlyle 06D/E and 06CC Compressor model types are UL and CSA listed with R-407A.

Feel free to contact Application Engineering at 800-GO-CARLYLE (800-462-2759) if you have any questions related to this bulletin.