

# BULLETIN



## CARLYLE COMPRESSOR DIVISION

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☒ PRODUCT

☐ GENERAL

☐ SERVICE & PARTS

Date: 13 September, 2002

Number: 02T-4

Issued By: P. Tollar

**Subject:**

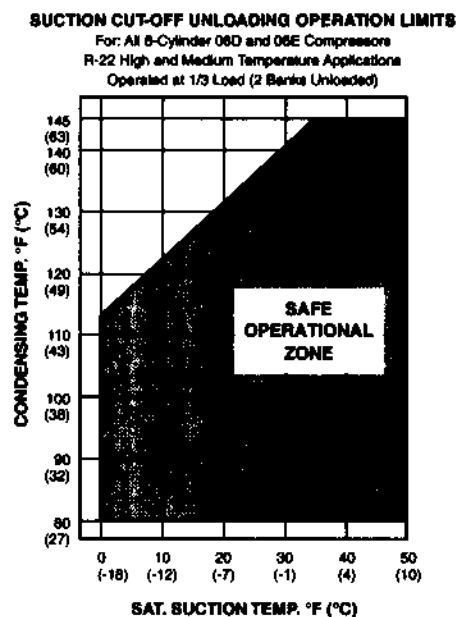
**06D&E MEDIUM TEMPERATURE**

**Product Name 06D & E**

**Product Family**

Carlyle Compressor is pleased to announce an increase in the allowable unloading steps of our 6-cylinder semi-hermetic 06D & 06E reciprocating compressors. This increase in unloading steps will allow our compressors to be more flexible and to give our OEM and end users the opportunity to lower air conditioning or refrigeration systems operating costs.

In the past, Carlyle only recommended one step of capacity control in R-22 medium temperature applications. After several years of successful field and laboratory evaluation of medium temperature systems applied with our 06D & 06E compressors, Carlyle is allowing operation with 2 banks of capacity control on our 6-cylinder compressors. Carlyle has already approved the use of 2 banks of capacity control with refrigerants 404A & 507. The approved operating envelope is shown below.



Allow 1/3 load at 0 SST/115 SCT.

These unloading limits are based on maximum return gas temperatures of 65 °F. Lower superheats in these medium temperature applications are desirable because they will result in lower internal operating temperature and this helps maintain longer compressor life. As a reminder, Carlyle also requires the use of approved mineral or alkyl-benzene lubricants with R-22. Carlyle does not recommend the use of POE oils with R-22. Finally Carlyle recommends the compressor be operated in a fully loaded condition for 60 seconds every 2 hours to prevent oil from collecting in the compressor or other portions of the system.