

Copeland™ compressors for transcritical CO₂ refrigeration



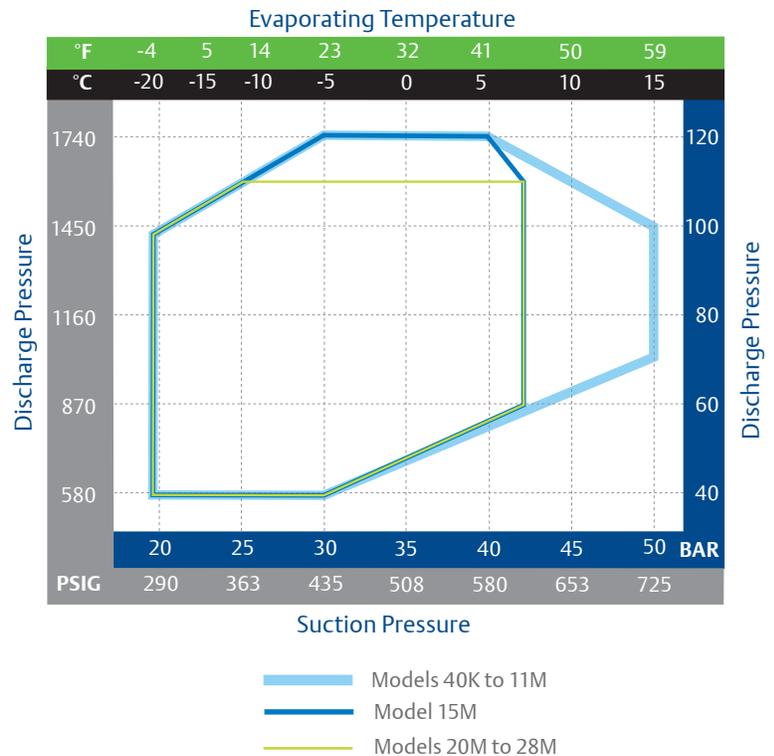
Designed for durability and best-in-class performance

The Copeland™ line of 4 cylinder CO₂ compressors is the ideal solution for R-744 transcritical booster systems. It is characterized by a design operating pressure of 1740 psig (120bar). Refrigerant flow and heat transfer have been optimized for superior efficiency. All compressors are equipped with CoreSense™ technology, offering faster system troubleshooting and protection from problems before they occur.

Designed for flexibility in system design and operation

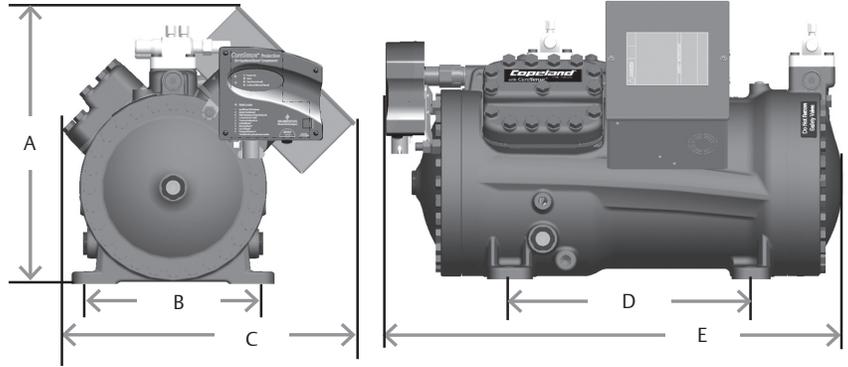
- Compact dimensions
- UL Recognized
- Integrated high pressure ASME certified safety valves
- Discharge temperature protection
- Service valve rotates 360° for ease of piping design
- 3 sight glasses for mounting of oil management control and visual oil level inspection while running
- One oil port for oil equalization in parallel system
- Oil splasher system ensures lubrication at constant and variable speed on 4MTLS40K to 4MTLS15M models
- Accessories available

Medium Temp Operating Envelope



Designed for durability and performance in R-744 applications

- Low sound and vibration
- Large discharge chamber reduces pulsation
- High design pressures of 1958 psia (135 bar) high side and 1305 psig (90 bar) low side
- Cylinder head and discharge plenum design minimizes heat transfer to suction side
- Stepless capacity modulation when applied with inverter
- CoreSense™ Protection



Dimensions

Dimension	4MTLS40KE-64KE mm (in)	4MTLS82KE-15ME mm (in)	4MTLS20ME-28ME mm (in)
A	413 (16.3)	433 (17)	466 (18.3)
B	256 (10.1)	256 (10.1)	256 (10.1)
C	428 (16.9)	455 (17.9)	469 (18.5)
D	368 (14.5)	368 (14.5)	368 (14.5)
E	630 (24.8)	697 (27.4)	842 (33.1)

Technical overview

Medium Temp 4MTLS Compressors (20°F Evap/95°F Gas Cooler/18°F Superheat)

Model	Nominal HP	Displacement CFH	Capacity kBtu/hr	High/Low Side Max Operating Pressure PSIG (BAR)	High/Low Side Design Pressure PSIG (BAR)	High/Low Side Burst Pressure PSIG (BAR)
4MTLS40KE	5	196.9	42.2	1740/725 (120/50)	1958/1305 (135/90)	6092/4786 (420/330)
4MTLS53KE	7	261.8	56.6			
4MTLS64KE	8	317.4	70.1			
4MTLS82KE	11	406.5	91.6			
4MTLS11ME	14	531.2	118.0	1740/609 (120/42)	1958/1305 (135/90)	6092/4786 (420/330)
4MTLS15ME	20	765.0	173.5			
4MTLS20ME	24	966.2	212.4	1595/609 (110/42)	1958/1305 (135/90)	6092/4786 (420/330)
4MTLS22ME	29	1134	252.4			
4MTLS28ME	34*	1355*	307.0*			

*Available late 2019 - Preliminary Data