

I charged the compressor CAJ4519Z with R407 gas, and upon startup, some frost appeared on the return line and expansion valve, even though the cooling was fine. Is this normal? Note that it's a refrigeration room, not a freezer.

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026



The Tecumseh CAJ4519Z stands as a benchmark in commercial refrigeration, offering robust performance for Medium and High Back Pressure (MHBP) applications. Engineered for versatility, it supports a wide array of refrigerants including R404A and R407C. This professional analysis covers technical data, wiring configurations, and essential maintenance practices for field engineers working on refrigeration units.

Copeland CS16K6E-PFZ-155 Compressor

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026



The Copeland CS16K6E-PFZ-155 is a high-efficiency hermetic reciprocating compressor designed for commercial refrigeration. Operating at 220-240V and 50Hz, this 1.25 HP powerhouse is optimized for R404A and R507 refrigerants. Known for its durability in medium-temperature applications, it features POE oil and thermal protection, making it a reliable choice for cold rooms and professional cooling systems.

Tecumseh Commercial Refrigeration Compressors

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026



Tecumseh commercial compressors range from 1/9 HP (230 W) to 3 HP (4,000 W), delivering refrigeration capacities from 278 W to 6,973 W across R404A, R134a, and legacy refrigerants. This complete technical guide provides exact horsepower, input wattage, evaporating ranges, and application types for all ten major models used in supermarkets, walk-ins, and retail coolers.

Embraco NEU2178GK, compressor

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026



The Embraco NEU2178GK is the definitive choice for 1 HP commercial freezing applications. Featuring a robust CSR motor and 16.8cc displacement, this R404A compressor delivers high starting torque for demanding environments. This guide details the electrical requirements, installation tips, and how it compares to Secop and Tecumseh alternatives.

Copeland ZB50KCE Scroll Compressor

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026



copeland zb50kce scroll compressor 7 hp 11.9 kw polyester oil nameplate data Mbsmgroup
mbsmpro.com

Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

Category: Refrigeration

written by www.mbsmpro.com | January 26, 2026

Table of refrigerant properties: Boiling, Standing, Suction and Discharge Pressures & Boiling Temperatures						
Refrigerant	Assume	Boiling	Standing	Suction	Discharge	Assume
R22	100% R22	100.7°C	100.1°C	100.1°C	100.1°C	100.1°C
R134a	100% R134a	103.5°C	103.5°C	103.5°C	103.5°C	103.5°C
R32	100% R32	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R404A	100% R404A	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R407C	100% R407C	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R410A	100% R410A	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R290	100% R290	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R600a	100% R600a	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C
R417A	100% R417A	107.0°C	106.6°C	106.6°C	106.6°C	106.6°C

Explore a practical refrigerant pressure chart with typical standing, suction and discharge pressures plus boiling points for R22, R134a, R32, R404A, R407C, R410A, R290, R600a and R417A.