

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

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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](#)

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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

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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

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copeland zb50kce scroll compressor 7 hp 11.9 kw polyester oil nameplate data Mbsmgroup
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Refrigerants, Standing, Suction and Discharge Pressures for Modern HVAC Systems

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A screenshot of a refrigerant pressure chart. The chart is a table with multiple columns and rows. The columns include refrigerant type, standing pressure, suction pressure, discharge pressure, and boiling points. The rows list various refrigerants such as R22, R134a, R32, R404A, R407C, R410A, R290, R600a, and R417A. Each row is color-coded with a small icon representing the refrigerant's color.

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.