

# R134a vs. R600a Compressor Conversion

Category: Refrigeration

written by [www.mbsmpro.com](http://www.mbsmpro.com) | January 2, 2026



Switching from R134a to R600a requires more than just changing the gas. This guide explains the critical “Displacement Rule”—why R600a compressors need nearly double the cylinder volume of R134a units to produce the same cooling. We cover charge calculation (45% rule), oil compatibility, and safety protocols for the modern artisan.

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## Embraco NEU2178GK, compressor

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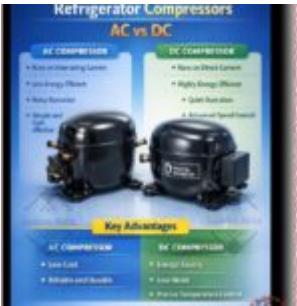
The Embraco NEU2178GK is the definitive choice for 1 HP commercial freezing applications. Featuring a robust CSR motor and 16.8cc displacement, this R404A compressor delivers high starting torque for demanding environments. This guide details the electrical requirements, installation tips, and how it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

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## AC vs DC Refrigerator Compressors

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DC inverter refrigerator compressor vs AC compressor energy efficiency, noise level, temperature control, digital inverter technology, home and commercial cooling - Mbsmpro.com

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## Samsung SD162H-L4UA S01, hermetic, compressor

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Samsung SD162H-L4UA R134a 1/5 HP refrigerator compressor 200-220V 50Hz 220V 60Hz technical data, specifications, performance tables, comparisons and replacement guide

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## Maneurop MTZ160HW4VE

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Maneurop MTZ160HW4VE 13 hp reciprocating compressor R404A R507A R134a R407C 20.3 kW

medium temperature cold room applications

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## **Copeland KCE444HAG hermetic compressor**

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Copeland KCE444HAG Compressor, 3/8 Hp, R134a, 230V 50Hz - Technical Specs and Water Cooler Applications

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## **LG BMG110NHMV Inverter Compressor**

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LG BMG110NHMV inverter compressor R600a 1/4 hp 220-240V 50/60Hz LBP performance table and comparison with BMG110NAMV and fixed-speed R600a models

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## **GMCC PE90HME-4 hermetic compressor**

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GMCC PE90HME-4 R134a refrigerator compressor 220-240V 50/60Hz 265-295 W LBP RSCR motor comparison with PE65H1H-9 and PE90H1F-9 models

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## Compressor Windings, CSR Terminals

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compressor windings CSR pin configuration common start run terminals, PTC relay overload wiring and multimeter resistance testing guide

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## Danfoss FR10B 103U2954 Compressor

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Danfoss FR10B 103U2954 hermetic compressor 220-240V 50/60Hz LBP freezer application data and replacement guidance