Copeland-15hp

Category: Refrigeration
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Copeland condensing unit for cold room – features, applications and installation tips

*The condensing unit (group) is an original **Copeland** brand motor rated at **15 horsepower (15 HP)**, while the evaporator fans are **Friga-Bohn** brand (two fans), both in good working condition*

Equipment description

The images show a **Copeland condensing unit** on a steel base, with a semi-hermetic refrigeration compressor, air-cooled condenser with dual fans and a vertical liquid receiver, designed for a cold room at positive or low temperature. This configuration is widely used in food retail, cold storage and agro-food applications where stable temperature and continuous duty are essential.

The ceiling-mounted evaporator with two axial fans distributes the cold air evenly inside the room and returns refrigerant gas to the Copeland compressor through insulated suction and liquid lines. Pairing a Copeland condensing unit with a forced-air evaporator is a classic solution that remains easy to install, commission and service for professional refrigeration contractors.

Copeland brand and technology

Copeland is a global reference in **refrigeration compressors**, offering scroll, semi-hermetic and hermetic models with high energy efficiency and broad operating envelopes. Its equipment covers commercial refrigeration from medium-temperature cold rooms to low-temperature freezers, helping retailers and logistics operators secure the full cold chain.

Modern Copeland systems often integrate advanced protections, electronic controls and, on some ranges, Digital Scroll technology for capacity modulation, which improves temperature stability and reduces electrical consumption. For installers and companies such as Mbsmgroup or Mbsm.pro, this means more reliable systems, fewer service calls and better seasonal efficiency.

Typical features of Copeland condensing units

Although the exact nameplate of the photographed unit is not readable, Copeland catalogues describe the main features of their condensing unit ranges. These units are available with multiple refrigerants (such as R404A, R134a and newer lower-GWP blends), and cover a wide capacity range suitable for small to large cold rooms.

Key technical characteristics (catalog examples)

Item	Typical Copeland data
Compressor type	Scroll or semi-hermetic reciprocating, multi-refrigerant, high efficiency.
Application range	Medium and low temperature, roughly from +12 °C down to around −40 °C depending on model.
Capacity range	Models sized for commercial cold rooms, freezers and display cases of various volumes.
Condenser	Quiet axial fans, available in standard or high-ambient “tropical” versions.
Options	Digital Scroll capacity modulation, electronic controls, liquid line components and safety devices pre-assembled.

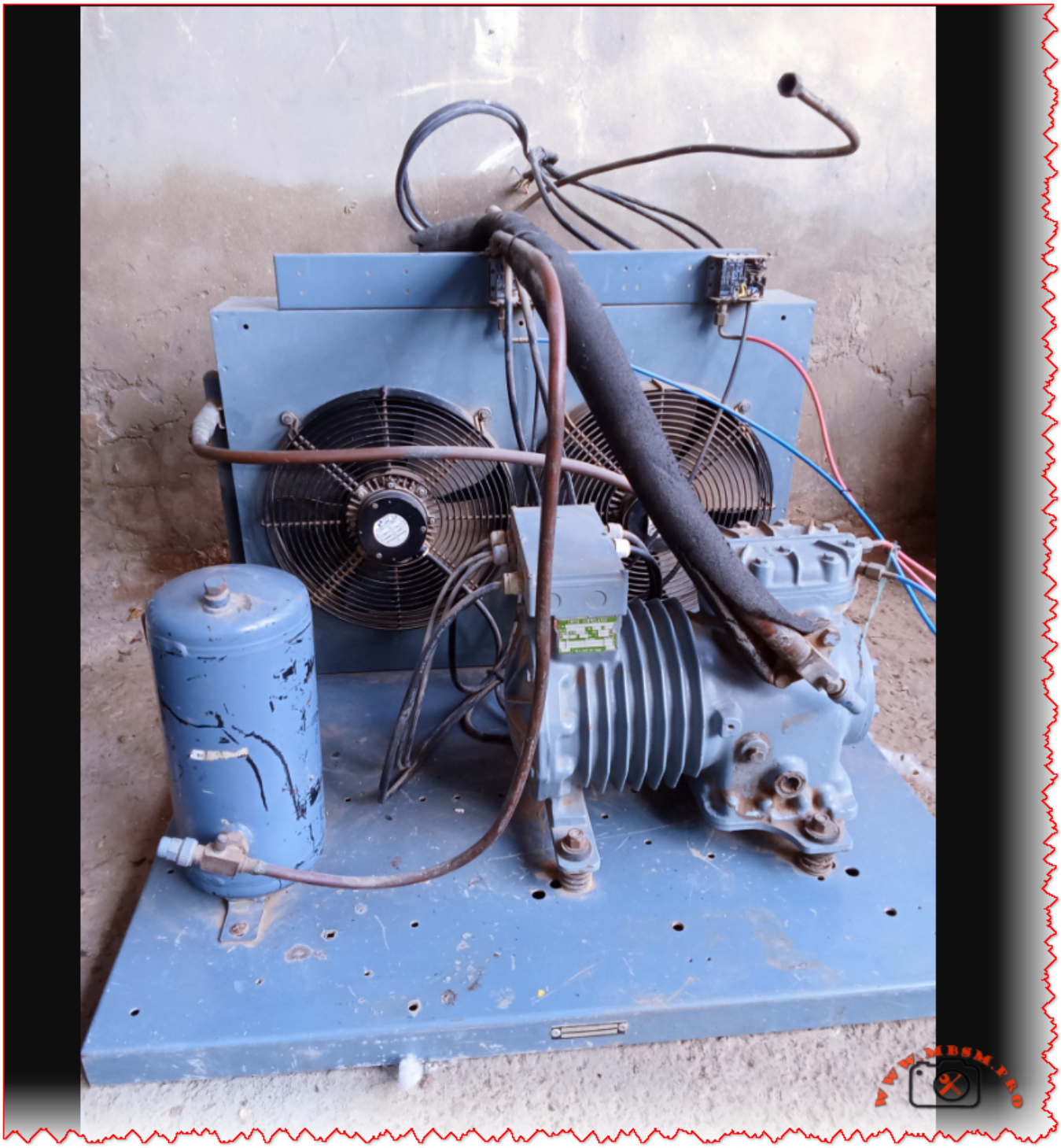
These catalogue values help technicians choose a replacement unit or design a new installation based on room size, target temperature and local climate.

Installation and maintenance recommendations

When installing or refurbishing a Copeland condensing unit like the one shown, technicians should:

- Inspect the compressor, liquid receiver and all brazed joints for signs of damage or leaks before charging with refrigerant.
- Clean the condenser coil and verify fan operation to ensure proper condensing pressure and avoid high-pressure trips.

It is also important to select a refrigerant approved for the specific Copeland model (as listed in the product catalogue) and to follow the prescribed oil type and charge. Adding appropriate protections – high/low pressure switches, crankcase heater, motor protection and an electronic temperature controller – increases system reliability and extends the service life of the equipment.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