

# Copeland CS16K6E-PFZ-155

## Compressor

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## Focus Keyphrase

Copeland CS16K6E-PFZ-155 Compressor Specifications and R404A Application Data

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## SEO Title

Mbsm.pro, Compressor, CS16K6E-PFZ-155, 1.25 HP, 1Ph, 220-240V, R404A, Hermetic Reciprocating

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## Meta Description

Discover the technical specifications for the Copeland CS16K6E-PFZ-155 compressor. High-performance 1.25 HP hermetic reciprocating unit for R404A/R507 refrigeration systems.

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## Slug

copeland-cs16k6e-pfz-155-compressor-specs

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## Tags

Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm, Copeland, CS16K6E-PFZ-155, 1.25 HP Compressor, R404A, Refrigeration, Hermetic Reciprocating, HVAC Parts, 220V 50Hz Compressor

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## Excerpt

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.

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**Mbsm.pro, Compressor, Copeland,  
CS16K6E-PFZ-155, 1.25 HP, 1Ph,  
220-240V, 50Hz, R404A/R507**

When it comes to commercial refrigeration, the reliability of the compressor is the heartbeat of the system. The **Copeland CS16K6E-PFZ-155** stands out as a robust solution for professionals seeking a balance between high-torque performance and long-term durability. This hermetic reciprocating compressor is specifically engineered for medium-temperature applications, utilizing modern HFC refrigerants.

## Technical Deep Dive: The CS16K6E-PFZ-155

The CS series from Copeland is famous for its “tough-as-nails” construction. The **CS16K6E-PFZ-155** model operates on a single-phase 220-240V power supply at 50Hz. With a Locked Rotor Amperage (LRA) of **68.6A**, it provides the necessary starting torque to handle demanding commercial environments, such as walk-in coolers and display cases.

### Core Specifications Table

Feature	Specification
Brand	Copeland (Emerson)
Model Number	CS16K6E-PFZ-155
Horsepower (HP)	1.25 HP (Approx. 1-1/4 HP)
Refrigerant	R404A, R507, R452A
Oil Type	45 POE (Polyolester Oil)
Voltage/Frequency	220-240V / 50Hz / 1 Phase
Locked Rotor Amps (LRA)	68.6 A
Cooling Capacity	~13,500 – 16,000 BTU/hr (at MBP)
Application	Medium Temperature (MBP)

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# Comparative Analysis: Copeland CS vs. Competition

To understand where the CS16K6E fits in the market, it is helpful to compare it with similar models from other industry leaders like Tecumseh and Danfoss.

## Performance Comparison Table

Model	Brand	Displacement	HP Class	Refrigerant
<b>CS16K6E-PFZ</b>	<b>Copeland</b>	<b>29.3 cm<sup>3</sup></b>	<b>1.25 HP</b>	<b>R404A</b>
CAE4456Z	Tecumseh	14.5 cm <sup>3</sup>	0.5 HP	R404A
SC18MLX	Danfoss	17.7 cm <sup>3</sup>	0.75 HP	R404A
<b>MTZ022</b>	<b>Danfoss</b>	<b>38.1 cm<sup>3</sup></b>	<b>1.75 HP</b>	<b>R404A</b>

While the CS16K6E sits comfortably in the 1.25 HP range, it often outperforms competitors in high-ambient conditions due to its superior thermal protection and larger internal volume, which helps in heat dissipation.

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## Why Choose the CS16K6E-PFZ-155?

The “E” in the model name indicates that this unit is pre-charged with **POE oil**. This is crucial for systems using R404A, as POE oil is miscible with HFCs, ensuring proper lubrication return to the crankcase.

## Key Advantages:

1. **High Starting Torque (HST):** Ideal for systems using expansion valves where pressure might not be fully equalized at start-up.
  2. **Internal Thermal Protection:** Automatically shuts down the motor in case of overheating, preventing catastrophic coil failure.
  3. **Compact Footprint:** Fits into standard condensing units, making it an excellent choice for field replacements.
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## Maintenance and Installation Best Practices

To ensure the longevity of your **Copeland CS16K6E-PFZ-155**, certain installation standards must be met. Since this unit uses POE oil, it is highly hygroscopic (it absorbs moisture quickly).

- **Vacuum Level:** Ensure the system is evacuated to at least 500 microns to remove all moisture.
  - **Filter Drier:** Always replace the liquid line filter drier whenever the system is opened.
  - **Voltage Stability:** Ensure the 220V supply stays within  $\pm 10\%$  to avoid tripping the 68.6A LRA limit.
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