

# Copeland oil-free centrifugal compressor

***Featuring Aero-lift bearing technology enabling oil-free solutions in chiller applications***

*Optimized efficiency, simple design, maximum performance*

## **Robust cooling capacity**

Meeting the demanding cooling load requirements of mission-critical, air-cooled chiller applications requires high-tonnage, high-speed compressors that can deliver robust, precise and reliable performance.

## **Energy efficiency**

Compared to existing screw compressor technology, the Copeland oil-free centrifugal compressor delivers significant energy efficiency gains in full- and part-load conditions.

## **Flexible architecture**

Independent configuration of compressor, electronic controls and VFDs opens new design options for chiller OEMs while allowing systems to be customized for various and/or specific application requirements.

## **Performance enhancing algorithms**

The Copeland oil-free centrifugal compressor leverages intelligent control algorithms and predictive data models to optimize performance and reliability.



## Benefits

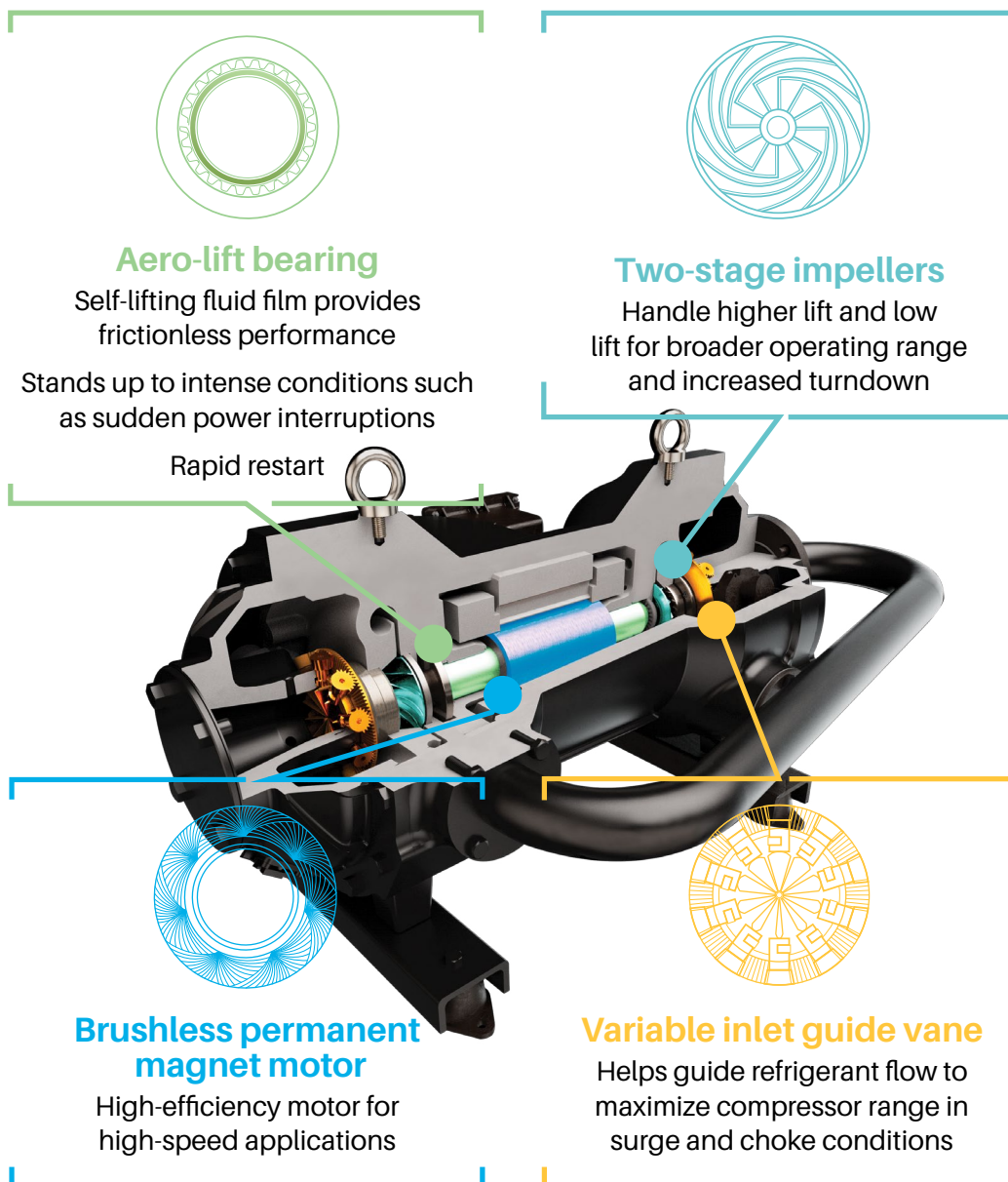
- Lower lifecycle costs
- High part load efficiency
- Reliability only found in Copeland compressors
- Reduced carbon footprint

Standard Model	Tons	Capacity
RLL-28M1-7X9	80 ton water-cooled	280 kW (955 kBtu/hr)
RLL-35M1-7X9	100 ton water-cooled	350 kW (1194 kBtu/hr)

Note: nominal capacity rated at AHRI Standard 550/590 conditions

Copeland oil-free centrifugal compressors offer a low-complexity solution that delivers high performance with ground-breaking Aero-lift bearing technology. Designed to increase efficiency in chiller applications with low-GWP refrigerants. Optimized for use with lower global warming potential (GWP) refrigerants, R-1234ze and R-515B.

Copeland offers a full-package solution that has been optimized with the oil free centrifugal compressors. The full solution includes the Copeland oil-free centrifugal compressor, Copeland high speed drive, and Copeland iPro controller.



To learn more, visit [copeland.com](https://copeland.com)

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