

Copeland oil-free centrifugal compressor

A simplified design

Featuring Aero-lift bearing technology for an easy-to-apply, low and ultra-low GWP compatible oil-free solution that delivers increased efficiency levels in chiller applications.

After thousands of hours and years of field operation and testing, it has proven to achieve:

- Up to 10% increase in full-load efficiency versus other compression technologies in air-cooled applications
- Up to 40% increase in IPLV above ASHRAE 90.1 2019 minimums
- Optimized system start and stop cycles through intelligent control algorithms
- Compatibility with refrigerants R-513A, R-515B, R-1234ze

1 Aero-lift bearing

- Self-lifting fluid film provides frictionless performance
- Stands up to intense conditions such as sudden power interruptions
- Rapid restart

2 Brushless permanent magnet motor

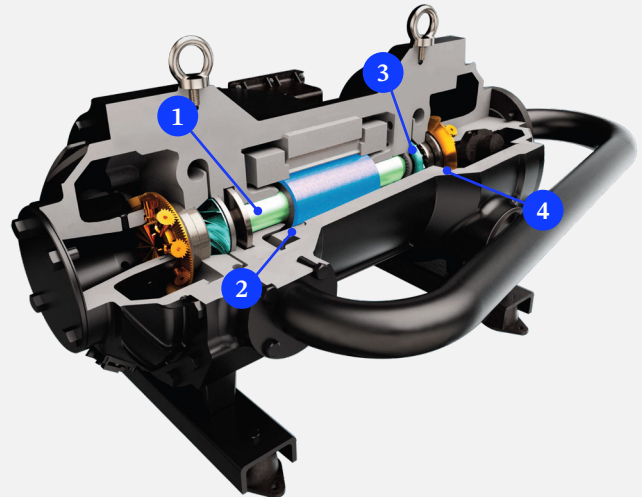
- High-efficiency motor for high-speed applications

3 Two-stage impellers





- Handle higher lift and low lift for broader operating range and increased turndown

4 Variable inlet guide vane

- Helps guide refrigerant flow to maximize compressor range in surge and choke conditions



Unlike any other compressor on the market

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

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

8504784 ©2024 Copeland LP.

COPELAND