



Reliability at Heart.
Data Centers in Mind.

AquaEdge® 30CF Air-Cooled Centrifugal Chiller

Featuring Carrier's proprietary and proven
EquiDrive™ Two-Stage Back-to-Back
Centrifugal Compressors with Oil-Free
Magnetic Bearing System

A Carrier QuantumLeap™
Data Center Solution

In mission-critical data centers, reliability isn't optional – it's essential.

To operate efficiently and consistently, you need a cooling solution engineered specifically for the demanding conditions of data center environments, and designed to deliver efficient performance around the clock, day in and day out. With the AquaEdge® 30CF from Carrier, you get it all.



As part of our QuantumLeap™ Data Center Solutions portfolio, the 30CF is designed with your unique challenges in mind. At its heart is our proven EquiDrive™ two-stage back-to-back centrifugal compressor(s) with an oil-free magnetic bearing system. It's also equipped with a range of advanced technologies to ensure dependable operation with minimal maintenance – even in the most extreme conditions, from -20°F to 140°F (-28.8°C to 60°C).



Maximize uptime with ultra-fast capacity recovery with swift restart and return to 100% capacity within three minutes



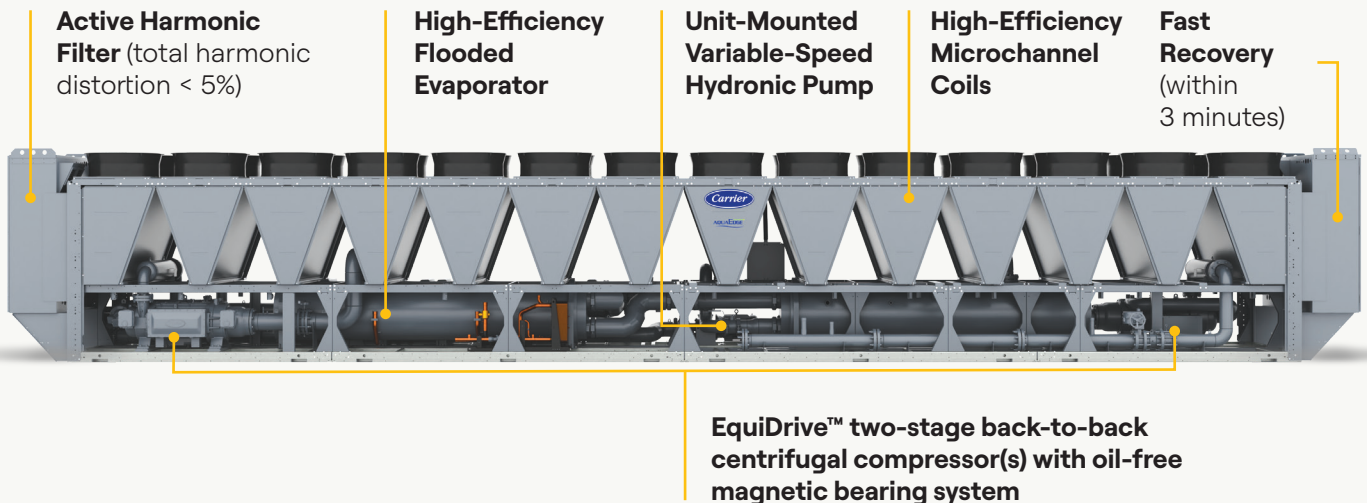
Quiet operation with low-sound, variable-speed EC condenser fans



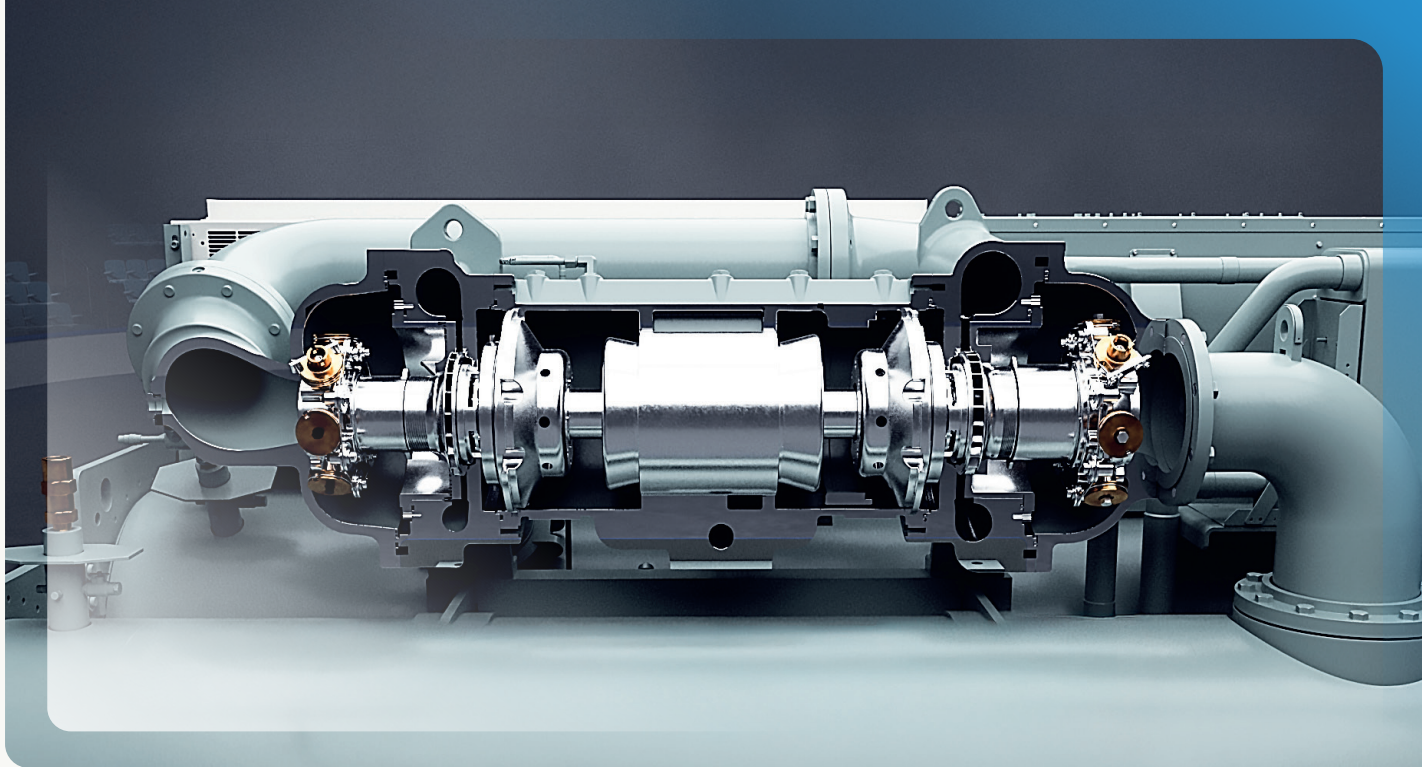
High-efficiency centrifugal compressors deliver exceptional performance across a wide operating range



Improved sustainability with ultra-low GWP PUREtec™ (HFO-1234ze(E)) refrigerant*



*Also available with R-515B refrigerant. R-1234ze(E) has an AR4 GWP₁₀₀ of 0.97, whereas R-515B has an AR4 GWP₁₀₀ of 287. GWP values are based on the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4), which is the basis of regulations such as the Kigali Amendment. Lower GWP refrigerants refer to refrigerants with a reduced GWP relative to prior models and/or alternatives. GWP is a measure of how much heat a greenhouse gas traps in the atmosphere over a specific time period relative to carbon dioxide.



Carrier's proprietary and proven EquiDrive™ two-stage back-to-back centrifugal compressor with oil-free magnetic bearing system supports high efficiency, reduced maintenance and reliable long-term operation to help reduce lifecycle risk as you scale infrastructure.



Reliable operation, regardless of your data center location, with flexible leaving and entering water temperatures and the ability to adapt seamlessly from -20°F to 140°F (-28.8°C to 60°C).



Optimized for high-efficiency with features including a variable-speed hydronic pump and a high-efficiency evaporator and condenser.



Factory-installed active harmonic filter to help avoid voltage fluctuations and overheating in compliance with IEEE-519.



Minimized chiller system footprint with its compact design featuring an on-board hydronic package.



Managed easily via integrated and intuitive Carrier SmartVu™ Controls.



Supports your system's peak performance and longevity with BluEdge® service plans powered by Abound™ HVAC Performance for continuous monitoring, real-time data and actionable insights.

Benefits at a glance

- **Proven EquiDrive™ two-stage back-to-back centrifugal compressors with oil-free magnetic bearing system** for reliability and high efficiency across a wide operating range
- **Active harmonic filter** (THDi < 5%) for a quieter environment
- **Ultra-fast recovery** within 3 minutes to maximize uptime
- **Low-sound variable-speed EC condenser fans** for quiet operation
- **Optimized for ultra-low GWP PUREtec™ (HFO-1234ze(E)) refrigerant** to help you meet your sustainability goals*



AQUAEDGE® 30CF Air-Cooled Centrifugal Chiller

Carrier QuantumLeap™ Data Center Solutions

The AquaEdge® 30CF is part of Carrier QuantumLeap™, a comprehensive suite of thermal and integrated management innovations designed to help maximize performance and energy efficiency in your data center.



Intelligent, Integrated Management Solutions



High-Performing HVAC Equipment



Complete Lifecycle Service and Support



SEISMICOMPLIANT
(select models)

Connect with a Carrier Data Center expert to learn more about the AquaEdge® 30CF and explore the full range of QuantumLeap™ solutions designed for the data center.



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