Carrier

QuantumLeap™
Data Center Solutions

Thermal and integrated management innovations designed for the data center

Lifecycle solutions for complete data center optimization

Data centers have never been more strategic or critical than they are today. They have also never faced greater scrutiny regarding efficiency, availability and flexibility. As your data center evolves, you need cooling system solutions – and a trusted partner – that can evolve with it. At Carrier, we're here to help with QuantumLeap™, a comprehensive suite of purpose-built solutions designed to seamlessly manage the entire thermal lifecycle of your data center.

From chip to chiller, QuantumLeap enables end-to-end thermal management by integrating intelligent cooling, digital controls, and predictive monitoring and service, ensuring real-time optimization, adaptability and efficiency across data center operations. Through this scalable systemwide approach, we deliver highly efficient, tailored solutions backed by proven expertise and our global support network. It all adds up to the confidence you need to operate with optimized performance at every stage of the data center lifecycle – and at Carrier, it's delivered by design.

Next-level, integrated management solutions. Designed for the data center.

Nlyte Software

Integrated Data Center Management (IDCM)

Integrated Data Center Management offers the next level of insight and control for today's increasingly complex computing and supporting infrastructure. IDCM tightly integrates the various systems within a data center in new and unique ways for energy savings, reduced costs and improved resiliency. IDCM is built with best-in-class technology from Automated Logic® and Nlyte®, unifying the worlds of Building Management Systems and Data Center Management.

Nlyte Asset Optimizer

Bring automation and efficiency to asset lifecycle management, capacity planning, workflow integration, and audit and compliance tracking with an open and scalable software solution designed for the data center. Nlyte Asset Optimizer simplifies space and energy planning and connects seamlessly with IT Service Management (ITSM) and business intelligence applications, making it easy for you to manage any asset, from receiving dock to decommissioning, in any enterprise, colocation or edge facility globally.

Nlyte Energy Optimizer

Monitor power and cooling. Deliver threshold alarming. View real-time and historical analytics. It's all possible with Nlyte Energy Optimizer, a highly scalable, hardware-agnostic solution that manages and tracks the data center power chain. Take advantage of its powerful capabilities designed to help improve energy consumption, reduce disruption and track performance across all your locations.

WebCTRL®

WebCTRL® Building Automation System

The WebCTRL Building Automation System brings all your building's subsystems together with one web-based platform that makes it easy for you to understand, control and analyze data center operations. Take advantage of powerful visualization tools, robust procedural tracking and secure user verification options to implement intelligent strategies for balancing power usage effectiveness with the conditions needed to maximize uptime and adhere to service-level agreements.

Efficient, high-performing HVAC solutions. Designed for the data center.

AquaForce 30XF with Waterside Economizer

AquaEdge 19DV

AquaEdge 19MV

Aero 39DC

Aero 39M

CDU

AquaForce® 30XF Variable Speed Air-Cooled Screw Chiller

The Carrier AquaForce 30XF air-cooled screw chiller provides advanced features and factory-installed options designed for enhanced data center cooling performance and reliability. With ultra-fast recovery, dependable performance in a wide range of operating conditions and usage of lower GWP refrigerant, the 30XF delivers everything you need to sustainably and consistently meet the ever-growing demand for computing and storage capability.

AquaEdge® Water-Cooled Chillers

Carrier's water-cooled chillers combine innovative features, exceptional versatility and a full-system approach to efficient cooling up to 5,500 tons (19,343 kW).

The AquaEdge 19DV and 19MV's unique EquiDriveTM two-stage back-to-back economized compressor excels at the higher loads common with data centers, delivering superior performance. They can restart swiftly following a power loss – just 150 seconds to reach full design capacity once power is restored.

Aero® Air Handling Units

Carrier offers custom and semi-custom air handling units to meet your precise requirements. Both the 39DC and 39M double-walled units provide advanced technology and custom features in a streamlined, easy-to-install package. Optimize your system by choosing from a variety of filters, fans and factory-installed controls to help maintain efficient airflow and ventilation.

Cooling Distribution Unit (CDU)

Carrier CDUs enable seamless integration into direct-to-chip (DTC) liquid cooling systems for high-density environments. Through low approach temperatures, CDUs can address the increase in processor power while providing an increase in cooling efficiency and reduction in infrastructure costs.

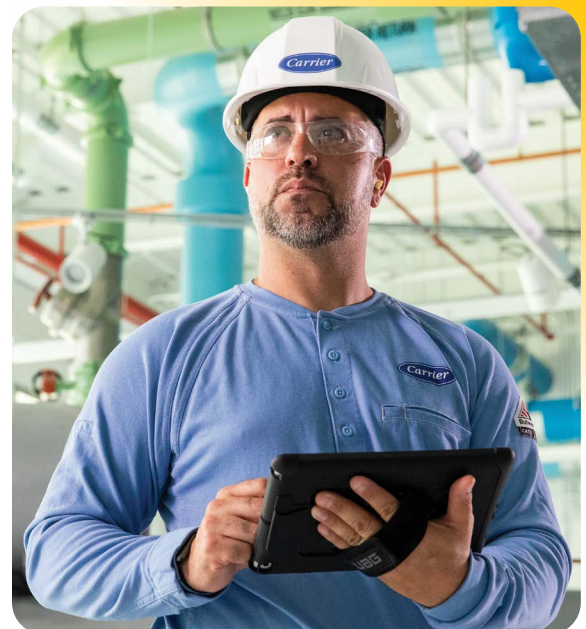# Complete lifecycle service and support. Designed for the data center.

Carrier Service Solutions

With Carrier, you are not just getting the most innovative equipment in the industry for your data center. You're getting a trusted partner delivering expertise, service and greater peace of mind throughout the lifecycle of your HVAC equipment. Our comprehensive solutions range from predictive maintenance, repairs, OEM spare parts, rentals and upgrades. With service solutions tailored for your unique business, we'll deliver the reliability, expertise, partnership and security you need through proactive and responsive solutions — ensuring maximum efficiency, protection and, most importantly, uptime.

And with our flexible BluEdge® service agreements, all powered by digital connectivity through Abound™ HVAC Performance, you get continuous monitoring and actionable insights to ensure your equipment's peak performance and longevity for years to come.

Carrier Rental Systems

Carrier Rental Systems can help you maintain data center uptime when temperature control is interrupted by scheduled upgrades or unforeseen events. With customized plans according to your timeline, budget and available space, you can use our readily available rental units to ensure continuous operations.

Carrier QuantumLeap Data Center Solutions

A comprehensive suite of innovations designed to support your data center's thermal and management needs

IDCM Benefits

- Increased efficiency of power, cooling and space by matching capacity with actual and forecasted demand
- Minimized disruption from planned maintenance or unforeseen failures of power, thermal or building systems
- Improved reliability through end-to-end, unified visibility of all critical systems

Equipment Benefits

- Meets strict environmental requirements necessary to ensure uptime and keep your servers running cool around the clock
- Supports reaching your budget and sustainability goals by reducing energy consumption and carbon footprint
- Equipment, components and features designed for service efficiencies

Service Benefits

- Reliable, 24/7/365 service and support for HVAC system
- Readily available rental equipment minimizes disruptions during upgrades or replacements
- Intelligent digital solutions enable advance notifications, remote diagnostics, decision analytics and enhanced field service support to maximize operations
- Expert guidance, from system design to ongoing maintenance

From optimizing equipment and controls to streamlining service processes, Carrier is committed to helping you maximize uptime and energy savings. Connect with a Carrier data center expert via carrier.com/datacenters today.

Carrier

carrier.com/datacenters