



| QuantumLeap



INTEGRATED DATA CENTRE SOLUTIONS

**Integrated Thermal Equipment, Software
and Service from Carrier**

One Partner, One Integrated Ecosystem



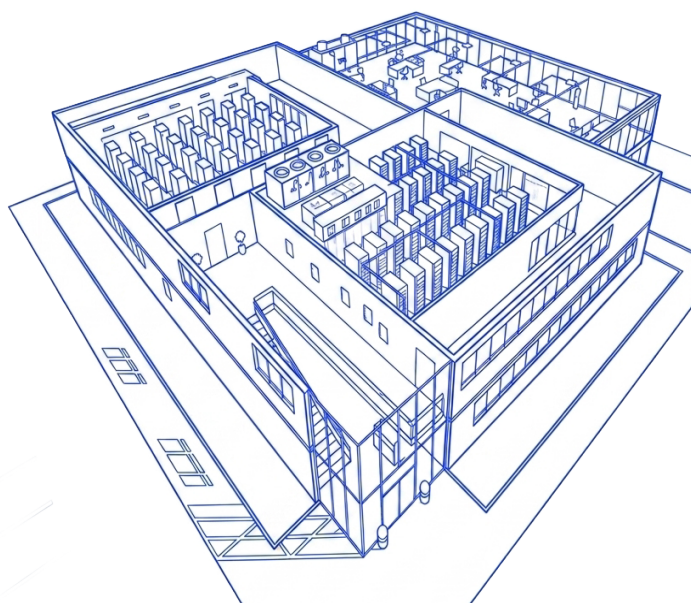
QuantumLeap™



INTEGRATED DATA CENTRE SOLUTIONS

Carrier QuantumLeap™ is an integrated ecosystem of equipment, software and service — designed to give data center operators like you the thermal mastery, operational visibility, and responsive support that mission-critical environments demand.

One Partner. One Integrated Ecosystem.



High Performing HVAC Equipment

Delivers essential cooling while helping reduce energy consumption and carbon footprint.



Chillers



Airside



Liquid Cooling

Intelligent, Integrated, Management Solutions

Including Automated Logic's WebCTRL® and Nlyte's DCIM software solutions, bring together building and IT infrastructure for greater efficiency and optimization.



Data Center Infrastructure
Management



Nlyte Software



Building Automation System

Automated
Logic

Complete Lifecycle Service and Support

Provides added peace of mind and helps enable continuous operations around the clock, and around the globe.

High Performing HVAC Equipment For Data Center

Chillers



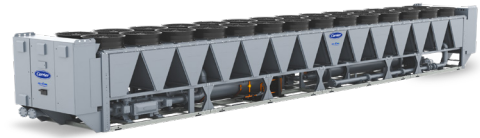
AquaForce® 30XF

Rely on Carrier's highly adaptable and easy-to-install AquaForce® 30XF air-cooled chiller for industry-leading efficiency, uptime and dependability. 30XF is available with low GWP refrigerants R1234ze in addition to R513A & R134a. It further optimizes performance with free cooling option to maximize savings and environmental benefits.



AquaEdge® Water-Cooled Chillers

Carrier's water-cooled chillers combine innovative features, exceptional versatility, and a full-system approach to efficient cooling for data centers. The AquaEdge® 19DV and 19MV's unique EquiDrive™ two-stage back-to-back economized compressor excels at higher loads, common with data centers, delivering superior performance.



AquaEdge® 30CF

AquaEdge® 30CF was engineered with our customers in mind to protect uptime through reliable operation across a range of ambient conditions and respond quickly if the unexpected occurs. Designed to address the limitations of traditional air-cooled designs, the AquaEdge® 30CF supports operation from -7°C to 60°C , helping maintain cooling continuity during extreme heat, grid events and across diverse site conditions.

The AquaEdge® 30CF is built on Carrier's proprietary two-stage, back-to-back centrifugal compressor with magnetic bearing technology, the same oil-free architecture used in the award-winning AquaEdge® 19MV water-cooled centrifugal chiller. This proven platform supports high efficiency, reduced maintenance and reliable long-term operation, helping operators reduce lifecycle risk as they scale critical infrastructure.



AquaEdge® 19DVR and AquaEdge® 19DVT

AquaEdge® 19DVR and 19DVT centrifugal chillers deliver high-performance cooling with optimized efficiency across a wide range of data center operating conditions. Designed with low-GWP refrigerant technology and advanced system controls, they provide a future-ready solution for sustainable, large-scale cooling applications.

Airside



Air Handling and Fan Wall Units

Carrier offers custom air handling & fan-wall units to meet your precise requirements. Optimize your system by choosing from a variety of high-grade air filters such as HEPA filters, EC fan with low THDI, and factory-installed controls to help maintain efficient airflow and ventilation.

Liquid Cooling



Carrier Coolant Distribution Units 65LL (CDU)

The Carrier Coolant Distribution Unit (CDU) features modular heat exchangers that can achieve approach temperatures as low as 3.6°F (2°C) — a reduction from the industry's more common 7.2°F (4°C). This innovative design can achieve up to 15% chiller energy savings,* allowing you to devote more energy to your servers rather than the equipment that helps keep them cool.

Intelligent, Integrated, Management Solutions



Integrated Data Centre Management (IDCM)

Integrated Data Center Management (IDCM) provides the next level of visibility, insight, and operational control for today's increasingly complex data center environments. By tightly integrating critical infrastructure systems, including power, cooling, monitoring, and building management, with IT assets and workloads, IDCM enables organizations to improve energy efficiency, reduce operational costs, enhance resiliency, and optimize capacity utilization. Built on industry-leading technologies from Automated Logic® and Nlyte®, IDCM bridges the gap between Building Management Systems (BMS) and Data Center Infrastructure Management (DCIM), delivering a unified view of data center operations and supporting more informed decision-making.

Nlyte Asset Optimizer

Nlyte Asset Optimizer brings automation and efficiency to asset lifecycle management, capacity planning, workflow automation, and audit and compliance tracking through an open, scalable platform designed for modern data centers. It simplifies space and energy planning while integrating seamlessly with IT Service Management (ITSM), CMDB, and business intelligence applications. From receiving dock to decommissioning, it provides a single source of truth for managing data center assets across enterprise, colocation, hybrid cloud, and edge environments worldwide.

Nlyte Energy Optimizer

Nlyte Energy Optimizer is a scalable, hardware-agnostic solution that provides real-time visibility into power, cooling, and energy performance across the data center. Combining monitoring, analytics, and forecasting in a single platform, it helps organizations improve efficiency, reduce costs, mitigate risk, and optimize capacity across distributed environments.



Building Automation And Controls For Data Centers

Optimize mission-critical facility performance with real-time visibility and control through Automated Logic's WebCTRL® system. WebCTRL® is a Building Automation System (BAS) that provides browser-based access to monitor, control, and review building systems across data center environments. The platform helps maintain tight environmental stability—temperature, humidity and pressure—while integrating critical subsystems for a clearer operational picture and better decisions.

Complete Lifecycle Service and Support



Carrier's data centre QuantumLeap™ services combine engineering expertise with continuous operational support across colocation, edge, enterprise and hyperscale sites. We deliver safe installation, responsive service and ongoing optimisation, helping operators maintain stable thermal performance, reduce energy consumption, and protect mission-critical workloads throughout the system lifecycle.

We Support You at Every Stage to Give You Peace of Mind

COMMISSION

OPERATE

MAINTAIN

OPTIMISE

MODERNISE

REPLACE

Specialised Expertise

Data centre specialists focused on safe operation, performance optimisation and asset availability

OEM Lifecycle Advantage

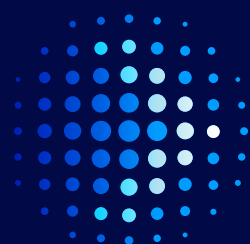
- Direct access to Carrier engineering experts
- Factory-backed technical support
- Genuine OEM parts and upgrades
- Faster root cause resolution

Trusted Partnership

Tailored service strategies aligned to site criticality, operating requirements and business goals.

Connected Service

Proactive insights, remote support and coordinated response to help maintain cooling continuity.



24/7 Reliability

Remote visibility, intelligent diagnostics and coordinated field support through the Carrier Customer Command Center.



Carrier QuantumLeap Data Centre Solutions

A comprehensive suite of innovations designed to support your data centre'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 systems
- 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 centre expert via carrier.com/commercial/en/sg/data-centers/