



Carrier Introduces QuantumLeap, a Comprehensive Suite of Innovative, Energy-Efficient Solutions for Data Center Thermal Management

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PALM BEACH GARDENS, Fla., Feb. 6, 2025 /PRNewswire/ -- Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions, today unveiled Carrier QuantumLeap™, a comprehensive suite of purpose-built solutions designed to support the rapidly expanding data center industry. With the global data center cooling market projected to reach \$20 billion by 2029, Carrier is positioning itself for significant growth by expanding its portfolio of advanced, energy-efficient cooling solutions, creating customizable aftermarket programs, scaling manufacturing and engineering capacity and collaborating with global technology leaders.

"Carrier QuantumLeap represents the next evolution in data center thermal management, integrating our most advanced cooling, controls and service solutions to deliver a highly efficient, state-of-the-art cooling system tailored to each customer's needs," said Christian Senu, Executive Director, Data Centers, Carrier. "With AI-driven growth, our innovative solutions—such as the integration of direct-to-chip liquid cooling with traditional HVAC cooling systems optimized through intelligent controls platforms—allow data centers to maximize efficiency and reliability. AI will continue to strain power grids, increasing demand for intelligent, integrated thermal management solutions that Carrier is uniquely positioned to deliver."

Carrier QuantumLeap Solution for Data Centers

Carrier QuantumLeap provides a fully integrated suite of solutions to seamlessly manage the entire thermal lifecycle of data centers. From chip to chiller, Carrier can deliver end-to-end thermal management through intelligent cooling, digital controls, and predictive monitoring and service, ensuring real-time optimization, adaptability and efficiency across data center operations. This scalable system-wide approach maximizes performance and energy efficiency in even the most demanding environments.

- **Chillers and air handling solutions:** Carrier provides a range of next-generation chiller solutions, including screw and centrifugal compression systems with magnetic bearing technology, and custom air handling systems. Designed for seamless integration into the broader thermal ecosystem, these high-efficiency solutions are 30% more efficient than prior generations of products. They feature integrated free cooling, elevated chilled water temperatures and optimized energy use, ensuring consistent performance to meet the demands of AI-driven computing.
- **Liquid cooling:** At [SuperComputing24](#) in Atlanta, Carrier recently showcased its Cooling Distribution Unit (CDU), which enables seamless integration into direct-to-chip (DTC) liquid cooling systems for high-density environments.
- **Differentiated controls solutions:** Carrier's advanced Automated Logic building management system and digital platform serve as the intelligence hub of this interconnected ecosystem, empowering operators with unparalleled transparency and precision control.
- **Data center infrastructure management:** Today, Carrier Nlyte®'s cutting-edge data center management, optimization, and compliance reporting solutions are deployed in more than 300 data centers. These facilities, spanning enterprise, colocation and edge environments, are efficiently managing and optimizing over one million racks and 10 million data points using Nlyte's innovative technology and delivering energy savings, cost reductions and improved resiliency.
- **Predictive maintenance and service:** Carrier's global service network, supported by a network of skilled technicians and factory-authorized spare parts, provides operational reliability and proactive issue resolution. In addition, Carrier's digital platform, Abound™, provides real-time insights, remote diagnostics and predictive maintenance capabilities – enabling data-driven, outcome-based results that minimize downtime, maximize uptime and enhance performance across the data center ecosystem.

Strategic Investments and Partnerships to Accelerate Data Center Growth

Carrier's acceleration in the data center market is driven by growth investments in emerging cooling technologies, expanded capabilities and strategic partnerships:

- **Investment in Strategic Thermal Labs (STL):** In 2024, Carrier Ventures invested in STL, a leader in liquid cooling technologies. Strategic Thermal Labs, LLC (STL) is an Austin-area heat transfer research and development company with industry-renowned expertise in data center liquid cooling. Building on its strong reputation, STL is a trusted partner to some of the largest server manufacturers and data center operators, providing valuable insights into both current and next-generation data center cooling technologies.
- **Expanded manufacturing and engineering capacity:** Carrier expects to double its commercial HVAC manufacturing capacity in North America by the end of the year and optimize its engineering lab capacity to develop and scale next-generation cooling solutions to meet surging demand while driving continued innovation.

For more information on Carrier's full range of data center solutions, visit carrier.com/datacenters.

About Carrier

Carrier Global Corporation, global leader in intelligent climate and energy solutions, is committed to creating solutions that matter for people and our planet for generations to come. From the beginning, we've led in inventing new technologies and entirely new industries. Today, we continue to lead because we have a world-class, diverse workforce that puts the customer at the center of everything we do. For more information, visit corporate.carrier.com or follow Carrier on social media at [@Carrier](https://twitter.com/Carrier).

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