



**For Immediate Release**

**Contact:** Mikiko Kato  
[mikiko.katou1@carrier.com](mailto:mikiko.katou1@carrier.com)  
Media Relations  
Carrier Japan Corporation

## **Carrier Launches Inverter Modular Water-Cooled Chillers and Heat Recovery Chillers in Japan**

*Lightweight and Compact Design, Building on Best-Selling USX Series*

**TOKYO, April 23, 2026** – Carrier is pleased to announce the launch of its inverter water-cooled chillers and heat recovery chillers in Japan. Building on the advanced technologies developed for industry-leading Universal Smart X (USX)<sup>™</sup> Series in the Japanese modular chiller market, the new models feature inverter-driven DC triple rotary compressors compatible with R32 refrigerant as well as lightweight and compact design that enables flexible installation. [Carrier Japan](#) is a part of Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions.

In recent years, heightened environmental awareness has accelerated global efforts to address climate change and advance carbon neutrality. As a result, there is growing demand for higher energy efficiency in heat source solutions, which account for a substantial share of total energy consumption in facilities. Also in Japan, labor shortages are a pressing social challenge, significantly increasing the need for solutions that reduce on-site workload and improve operational efficiency.

Responding to these evolving social and market challenges has become an urgent priority. Against this backdrop, Carrier has pursued product development from multiple perspectives, including environmental performance, safety-oriented design, increased capacity, ease of installation, risk diversification, and improved serviceability. Through these efforts, we have expanded our lineup of modular chiller solutions and strive to support our customers in addressing their operational challenges more effectively.

“With this new series, we have enhanced our conventional water-cooled chillers by leveraging our modular chiller expertise, delivering high levels of environmental performance, safety, ease of installation, and maintainability,” said Mineo Maruyama, President of Carrier Japan. “By listening closely to on-site needs and addressing real-world challenges, we will continue to deliver solutions that contribute to a more sustainable future.”

The following are some of the key features of the new series:

- **Improved Installation with Lightweight Design:**  
Similar to Carrier Japan’s modular chiller “USX FIT,” the recipient of the top prize in the 2025 Demand Side Management Awards, this product features an inverter-driven DC triple rotary compressor. It achieves among the lightest weights and smallest installation footprints in its class, enabling transport via standard elevators and significantly improving installation efficiency, particularly in renovation and retrofit projects.
- **Enhanced Energy Efficiency and Compact Design:**  
The adoption of a DC triple rotary compressor achieves both improved energy efficiency and increased capacity of up to 50 HP. The system supports a wide capacity range from a single module (30 HP) to up to 16 connected modules (800 HP), making it suitable for a variety of applications.

- **Reduced Environmental Impact:**

The use of low-GWP refrigerant R32, along with a design compliant with guidelines for mildly flammable refrigerants (GL-17), ensures both environmental performance and safety. In addition, the paint-free exterior significantly reduces the use of volatile organic compounds (VOCs).

- **Harmonic Suppression:**

While harmonic countermeasures typically require additional equipment such as active filters, the new series is equipped as standard with a PWM converter, which effectively suppresses harmonics. As a result, no additional harmonic mitigation measures are required.

- **Expanded Water Temperature Range and Precise Control:**

The chilled water temperature range has been expanded to 3°C to 30°C, enabling use across a wide range of applications, including food and chemical processing. The inverter compressor ensures stable operation with highly precise temperature control.

- **Risk Diversification and Enhanced Serviceability:**

The segmented refrigeration cycle design enables risk diversification. In the event of an issue, individual modules can be isolated, and compressors can be replaced independently.

- **Reliable Operation with Remote Monitoring:**

Users covered by Abound HVAC Performance can benefit from 24/7 remote monitoring that supports safe and reliable operation, along with automatic detection of fouling in water heat exchangers and email notifications.

- **Further Energy Savings with Variable Flow Control (Optional):**

Equipped with external pump control terminals for supply, the system enables reduced transport energy through flow control. Additionally, integrating water circuit sensors into the module controller (MC) reduces design workload and contributes to simplified installation.

### **About Carrier Japan**

Carrier Japan provides sustainable solutions integrating energy efficient products for residential, light commercial and industrial customers. Carrier Japan is a part of Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions, committed to creating innovations that bring comfort, safety and sustainability to life. For more information, visit [Carrier HVAC Asia Pacific](#).

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