



For Immediate Release

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Carrier Japan Corporation

Carrier Contributes to Heat Stress Mitigation Solution for Japan's Tallest Building Construction Project

TOKYO, Oct 8, 2026 – [Carrier Japan](#) is participating in the joint development of a heat stress mitigation solution led by Shimizu Corporation, contributing to the adaptation and evaluation of air conditioning equipment that is central to a temporary cooling system in use at a supertall building construction site. The system is deployed at the Tokiwa-bashi site, where the TOKYO TORCH Torch Tower, set to become Japan's tallest building upon completion, is currently under construction. The solution is helping improve worker comfort and support heat stress prevention in one of the industry's most challenging construction environments. Carrier Japan is a part of Carrier Global Corporation (NYSE: CARR), global leader in intelligent climate and energy solutions.

Managing heat stress is an increasingly critical challenge for the construction industry. Conventional spot coolers supply cooled air but release exhaust heat into the same indoor space, limiting their effectiveness in high-rise construction sites surrounded by curtain walls. The newly developed temporary cooling system addresses this challenge by discharging exhaust heat outside the building through openings in the curtain wall structure, creating a more effective cooling environment for workers.

The system incorporates Carrier Japan's Single Ace u™ packaged air-cooled air conditioning units. To meet the unique requirements of supertall construction projects, the unit was mounted on a dedicated movable platform, allowing it to be relocated as construction progresses. The solution also incorporates integrated supply and exhaust ductwork together with a specialized heat-rejection mechanism, resulting in a temporary cooling system specifically engineered for the demanding thermal conditions found on high-rise construction sites.

"This joint development project with Shimizu demonstrates how we can combine our engineering-to-order capabilities with our deep HVAC expertise to rapidly customize, validate and deploy solutions for highly specialized applications," said Mineo Maruyama, President of Carrier Japan. "The insights gained through this project will help us further enhance this temporary cooling solution and expand the application of heat stress mitigation technologies to construction and other industrial environments."

Prior to deployment at the construction site, Carrier Japan established a dedicated validation environment at its Fuji Operations to replicate actual construction site conditions and conducted performance evaluations in the presence of representatives from Shimizu. Airflow and cooling performance were verified with supply and exhaust ducts connected to ensure the quality and performance required for real-world operation before implementation at the construction site.

In addition, Carrier ABOUND™ was installed to enable remote monitoring of equipment operating conditions and provide real-time operational visibility. Through an ongoing field validation program, Carrier Japan is evaluating how enhanced operational visibility can support stable operation and improve maintenance efficiency, even at construction sites where physical access may be restricted.



Carrier Japan's Single Ace™ packaged air-cooled air conditioning unit serving as the core of the temporary cooling system deployed at the TOKYO TORCH Torch Tower construction site

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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