News

Carrier
A United Technologies Company

For Immediate Release

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At the Mid-America Trucking Show, Booth 19124

It's EcoDriven℠!

Carrier Introduces Vector® 6500 Trailer Refrigeration Unit; North America's First Single-Temperature Deltek® Hybrid

LOUISVILLE, Ky., March 18, 2009 – Carrier Transicold today unveiled the Vector® 6500, North America's first single-temperature trailer refrigeration unit to take advantage of Carrier's exclusive hybrid diesel-electric Deltek® technology. Carrier Transicold is part of Carrier Corp., a business unit of United Technologies Corp. (NYSE: UTX).

The Vector 6500 was shown at the world's largest trucking exposition, the Mid-America Trucking Show, held in Louisville this week.

"With its all-electric architecture, the Vector 6500 is a high-performance unit designed for both exceptional reliability and low cost of ownership," said David Kiefer, director of Marketing and Product Management, Carrier Transicold. "This next generation unit continues Carrier's EcoDriven℠ commitment to the refrigerated transport industry, and builds on the success of our hybrid Vector 1800MT multi-temperature unit."

The Vector 6500 unit's refrigeration capacity rivals the performance of the top-of-the-line trailer unit from Carrier's X2 series, which it closely resembles on the exterior. However the units are very different on the inside.

The Vector 6500's streamlined electric architecture eliminates many of the serviceable mechanical components found in conventional systems, and substitutes expanded use of electronics and maintenance-free electrical components. The result is a unit that can reduce maintenance costs over its lifetime, compared to conventional mechanical technologies. More

importantly, unlike a conventional system that runs all mechanically connected components via belts and pulleys whenever the engine runs, the Vector system only powers components needed at any given time, which can save fuel by reducing the engine load.

"Ever since we introduced the Vector 1800MT unit in 2006, our North American customers have been eagerly awaiting the debut of a single-temperature hybrid suited for today's 53-foot thin-wall trailers used in long-haul applications," Kiefer said. "The Vector 6500 will be appreciated by customers interested in taking advantage of green technologies, and especially by those who seek exceptional reliability and low-cost operation – in a sense, 'saving green,' too."

Clean, Yet Powerful

Carrier's Deltek technology uses a diesel engine to do just one thing: drive a 23 kW electric generator. This rolling power plant generates enough current to run all system components, such as fans and the 6-cylinder 06D semi-hermetic compressor with its electric motor sealed inside. The independent electric-resistance heating elements provide precise temperature control, when heat is required. Features that enhance the unit's environmental profile include:

- A clean-burning 2.2-liter direct-injection engine that surpasses the requirements of the U.S. Environmental Protection Agency's Tier 4-interim standard (Tier 4i), and outperforms competitive units with regard to particulate emissions. The same engine used in Carrier's X2 series, it has better fuel efficiency and is quieter than earlier engines.
- The Vector 6500 can be equipped for electric standby, allowing it to be plugged into grid power when parked rather than running the diesel engine, thus eliminating emissions and fuel consumption, reducing noise and lowering operating costs.
- It uses one-third less refrigerant than a conventional system and has a simplified cooling circuit with approximately half the brazed joints and no compressor shaft seal, significantly improving refrigerant containment.
- Through the elimination of many commonly replaced items, such as belts, there is less waste destined for landfills.

The Vector 6500 unit also has impact-resistant DuraShell® 2 body panels that open all the way to the top of the unit for easy access to interior components during service. It uses Carrier's sophisticated, programmable Advance® microprocessor control, which provides the ability to configure up to 30 custom settings for different commodities through its IntelliSet® option and offers compatibility with major telematics providers for centralized monitoring and tracking of refrigerated cargos.

Taking advantage of the Advance control's telematics compatibility, Carrier Transicold for the first time conducted real-time data monitoring and feedback as part of its extensive field-testing program.

"As a result of this exiting new technology, Carrier was able to accelerate product development with a higher degree of quality assurance than ever before," said Kiefer, adding that Carrier anticipates product availability in the third quarter of 2009.

For more information, turn to the experts in the Carrier Transicold dealer network or visit www.trucktrailer.carrier.com.

About Carrier Transicold

Carrier Transicold provides industry-leading transport temperature control and anti-idling solutions with a complete line of equipment for refrigerated trucks, trailers and containers, auxiliary power units for heavy-duty trucks and transport air-conditioning systems for buses and recreational vehicles. Carrier Transicold is a unit of Carrier Corp. Headquartered in Farmington, Conn., Carrier Corp. is the world's largest provider of heating, air-conditioning and refrigeration solutions. With 2008 revenues of $14.9 billion, Carrier has approximately 41,000 employees worldwide and operations in more than 170 countries. Carrier is part of United Technologies Corp., a Hartford, Connecticut-based provider of products and services to the aerospace and building systems industries worldwide. Visit www.carrier.com for more information.

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