

Now with Smart Evaporators

Vector 8600MT Multi-Temp Refrigeration System Boosts Performance and Delivers Compliance

The new Vector™ 8600MT hybrid unit from Carrier Transicold advances multi-temperature trailer refrigeration with new smart remote evaporators that improve operational efficiencies and reliability while enabling easier, more flexible installation.

It is the first commercially available multi-temperature trailer refrigeration unit that meets the 2013 EPA Tier 4 standard.

“The innovative engineering that went into the Vector 8600MT unit and its new smart remote evaporators provides our food distribution and supermarket customers with significant benefits,” said David Kiefer, director of Marketing and Product Management, Carrier Transicold. “These improvements will help customers in the key areas of reducing fuel consumption and maintenance costs, environmental compliance, quiet operation, lower total cost of ownership and trailer configuration flexibility.”

The Vector 8600MT is Carrier Transicold’s third-generation Vector multi-temperature refrigeration system for North America. It shares key attributes of its recently introduced single-temperature sibling, the Vector 8500 unit. Both provide significantly reduced weight, improved fuel economy and greater refrigeration capacity.



The new Vector models are also the first North American trailer units to use a fully hermetic electric scroll compressor. Proven efficient and reliable in Carrier Transicold refrigerated marine container systems, the scroll compressor has 70 percent fewer moving parts and is 200 pounds lighter than a traditional reciprocating compressor, contributing to the host unit’s overall 10 percent weight reduction compared to its predecessor.

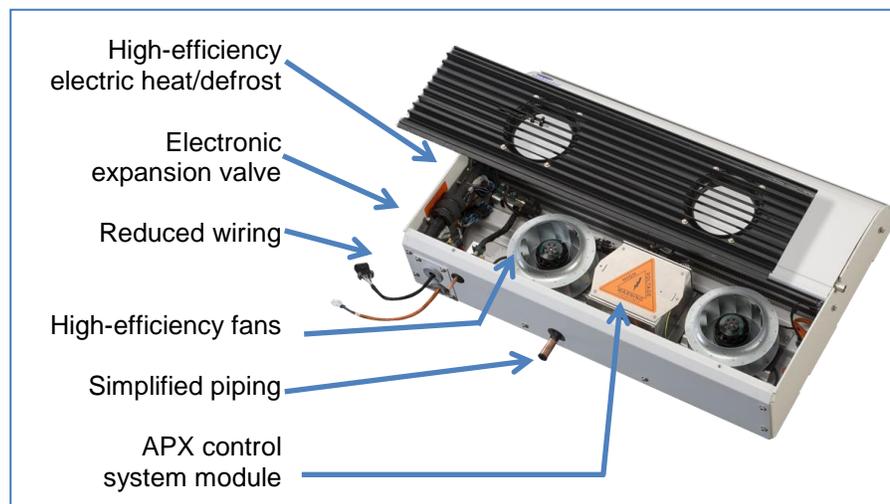




Smart Remote Evaporators Mean Smarter Cooling

With the Vector 8600MT, one or two remote evaporators can be added to the host system, enabling a total of up to three refrigerated compartments within a single trailer, each maintained at a different temperature set point.

“We call our new remotes smart evaporators because they each have an integral control module that communicates with the main APX™ control system,” said Kevin Williams, product manager, trailer products. “It’s part of Carrier Transcold’s unique distributed electronics strategy.



“This means simpler wiring and streamlined installation, which ultimately results in higher reliability. The advanced design of the new smart remote evaporators also includes electronic expansion valves (EXV) for better capacity and recovery after door openings, more precise temperature control and lower fuel consumption.”

The Vector 8600MT unit’s smart remote evaporators automatically adjust themselves to varying conditions to ensure optimized cooling capacities and more efficient fuel use, unlike competitive and earlier Carrier systems with mechanical expansion valves that required more setup, a high level of technician expertise and additional adjustments when reconfiguring trailer compartments.



The Vector platform's signature E-Drive™ all-electric refrigeration technology means refrigeration and heating operations are 100 percent electric, powered over the road by an onboard generator driven by the unit's diesel engine.

Electric standby capability is built in, allowing haulers to tap into electric power supplies to run the system when parked, providing quiet, emissions-free refrigeration performance that can reduce operating costs by up to 70 percent compared to diesel operations, while conserving fuel for the highway.

Compliance Plus Better Performance

As with other 2013 Carrier Transicold truck and trailer refrigeration units, the Vector 8600MT unit incorporates Carrier Transicold's performance-boosting ecoFORWARD™ technologies. Compared to the unit it succeeds, the new Vector 8600MT unit provides up to 4 percent higher cooling capacity - 60,000 Btu at 35 F setpoint and 24,000 Btu at -20 F setpoint - while using up to 20 percent less engine power.

The Vector 8600MT unit's engine is certified for "evergreen" compliance with the 2013 EPA Tier 4 standard for engines less than 25 horsepower. For fleets operating this class of refrigeration units in California beyond seven years, the Vector platform's standard electric standby capability provides an in-use compliance option for the California Air

Resources Board (CARB). Carrier Transicold has also received CARB conditional verification for its engine emission system (EES), a level 3+ verified diesel emission control (VDEC) device. Vector 8600MT units, as well as Carrier's other 2013 Tier 4 compliant models, may be factory-equipped with the EES. CARB conditional verification also permits installation of the EES on previously purchased units with up to 3,000 hours of engine operation, and testing will continue into 2014 to verify EES performance on engines with far more hours of service to eliminate the 3,000-hour provision.

For more information about the Vector 8600MT multi-temperature trailer unit from Carrier Transicold, turn to the experts within the Carrier Transicold dealer network or visit www.carrier.com/ecoforward.