

VECTOR™ Series

Smarter Thinking



Choice

WHAT MAKES VECTOR DIFFERENT MAKES A REAL DIFFERENCE.

The Vector platform offers many exclusive features and firsts, starting with a true all-electric architecture.

VECTOR'S FIRSTS, DESIGNED TO MAKE IT LAST.

- First to eliminate maintenance parts such as vibrasorbers, clutches, shaft seals, alternators, and most belts and pulleys — reducing maintenance and saving money.
- First with extremely efficient cool-only refrigeration cycle that uses electric heat. This simple system has no compressor shaft seal and relatively few refrigerant connections.
- First to offer a fully hermetic, high-efficiency scroll compressor.
- First with integrated electric standby, not an add-on adopted design, maximizing efficiency and reducing operating costs up to 70%.

COMPLIANCE SHOULDN'T BE A ONE-WAY STREET.

There's rarely a one-size-fits-all solution to any business challenge. Compliance is no exception. Carrier gives you choices that allow you to customize your equipment — and overall cost structure — to best suit your business plan.

Vector systems are EPA-compliant in all 50 states. Electric standby, standard on Vector units, is a CARB in-use compliance option for equipment that will operate in California beyond the initial seven-year period. We also continue to work toward offering an even wider variety of CARB in-use alternatives, including our optional extended service interval Engine Emissions System.

Choose the Carrier solution that offers the lowest cost of ownership for *your* business. Vector. Smart choice.



SINGLE-TEMP PERFORMANCE, IN SINGLE OR MULTIPLE COMPARTMENTS.

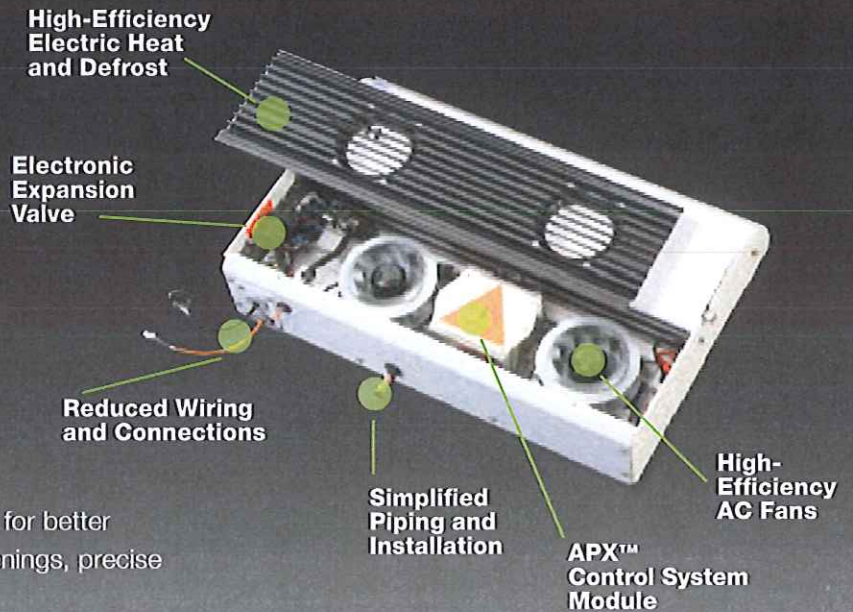
The Vector Tier 4 platform comes in your choice of either a single temp model, Model 8500, or a multi-temp system, Model 8600MT. Each platform has a host unit that is virtually identical in design and features the same performance advantages.

SMART REMOTE EVAPORATORS. SMARTER COOLING.

As part of the APX Control System's distributed electronics strategy, the control modules—the brain controlling each compartment—are now located in the remote evaporator. Not only does this eliminate complex wiring, it delivers ultra-high-efficiency performance in each compartment, for full application flexibility.

Features include:

- A Carrier-exclusive electronic expansion valve for better capacity, temperature recovery after door openings, precise temperature control, and lower fuel use.
- Flexibility to easily add a second or third multi-temp compartment to an existing multi-temp host unit.



THE VECTOR ALL-ELECTRIC SCROLL COMPRESSOR.

- 5 Orbiting Scroll
- 6 Low-Vibration Counter-Weighting
- 7 Oil Sump
- 8 Straddle Bearing System

Vector is the first trailer refrigeration system to include a fully hermetic scroll compressor, an exclusive Carrier design proven over years of demanding use in Carrier's seagoing container refrigeration systems. Not only is the simplified scroll compressor measurably more efficient, it also has 70% fewer moving parts than conventional reciprocating compressor, making it more reliable, lighter weight, and virtually leak-free.

SYNCHRONIZED BY POWERFUL CONTROL.

NOVATION

- 7 Novation™ Heat Exchanger Technology.** By being the first to apply this technology to trailer units, Carrier has optimized a light, damage-resistant, ultra-high-efficiency coil that lowers pressures, saves fuel, and keeps the system running in the harshest conditions.



- 8 Distributed Electronics.** The control system uses automotive-style distributed electronics to place operating modules more efficiently within the unit. The result is higher reliability due to shorter, more efficient wire routing and fewer electrical connections. CAN-bus communication provides easy “plug-and-play” modularity to upgrade units or provide additional functionality.



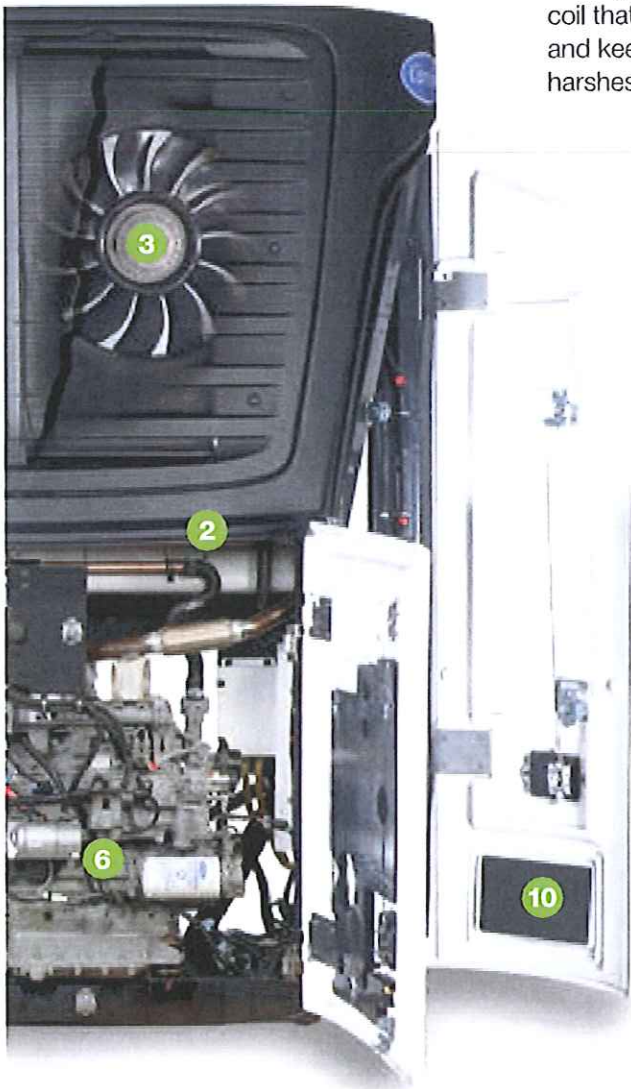
- 9 Suction Modulation Valve (SMV).** The next-generation SMV better controls the flow of refrigerant gas into the compressor, providing better temperature control and compressor power regulation. Operating the compressor at or near its functional design “sweet spot” means it is always running at peak efficiency, reducing engine power, fuel use, and emissions.



- 10 APX™ Control System** provides the ideal balance between technology and convenience, combining future-forward sophistication with a people-friendly design. The APX Control System unites a variety of advanced electronics and efficient components to continually balance optimum fuel efficiency and performance. This ensures ultra-high-efficiency operation and precise temperature control.



- 6 Next-Generation Large-Displacement 2.2-Liter Engine** has become “smarter” with the addition of an engine control module, CAN-bus communication, and the powerful APX Control System. Compliant with EPA Tier 4 Final regulations for engines less than 25 HP.



Operation: **HIGH-EFFICIENCY TECHNOLOGY**

- 1 DuraShell™ 2 Doors** offer a great look for your fleet, combined with the latest composite materials that repel dirt, resist damage, and integrate noise-reduction features to provide quiet operation.



- 2 Electronic Expansion Valve (EXV).** Exclusive to Carrier's ultra-high-efficiency designs, the EXV provides optimal fuel efficiency, temperature control, and compressor protection compared to conventional mechanical expansion valves.



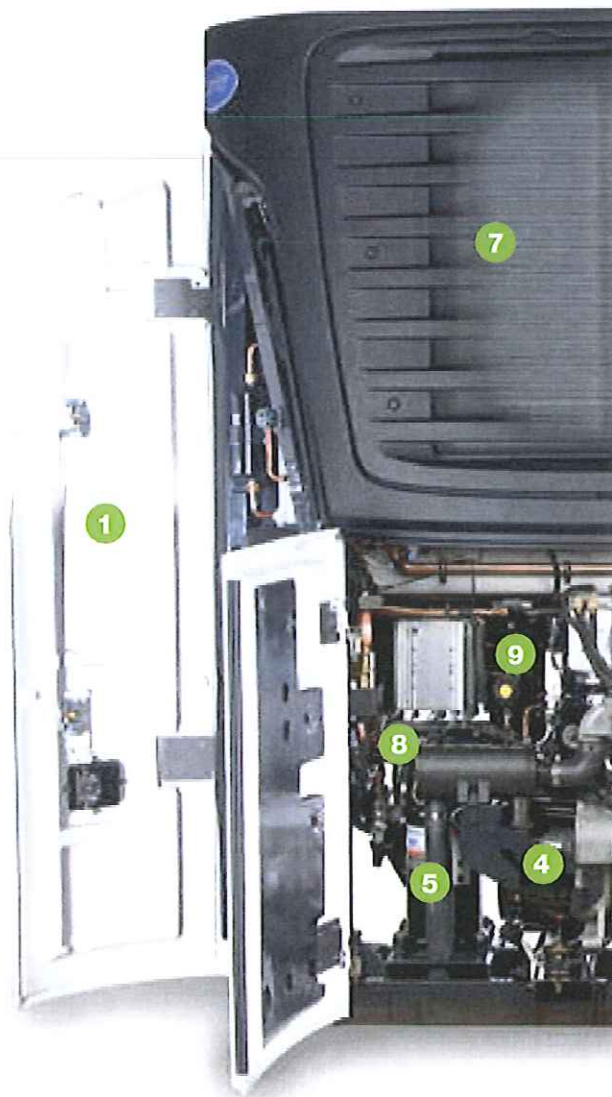
- 3 V-Force™ AC Fans** are engineered with ultra-efficient vortex-suppression blades. The fan is specially designed to pair with microchannel coils to reduce power requirements and noise, while providing more airflow and ensuring operation in the hottest environments.



- 4 High-Capacity Generator.** Industry-proven ultra-high-efficiency design lowers engine power and fuel use. It also eliminates many of the unit's mechanical maintenance items.



- 5 Fully Hermetic Electric Scroll Compressor.** A highly reliable and efficient design proven in Carrier seagoing containers. It has 70% fewer moving parts, is over 200 pounds lighter, and reduces unit vibration and noise.



VECTOR™ Series

Strength in numbers. And a number of strengths.

- Requires **20%** less engine power.
- Delivers up to **4%** higher-rated cooling capacity.
- Consumes up to **26%** less fuel.
- Reduces engine run time up to **14%** during automatic start/stop operation.
- Weighs 210 pounds less, or over **10%** lighter.
- Provides 5% to **30%** higher BTU-per-gallon efficiency.

The Vector Series. **Smarter Thinking.** Smarter Business Decision.

Performance data compared to the Carrier Transicold models they replace and dependent on a range of operational settings, environmental conditions, and model type. Specifications are subject to change without notice. Form 62-11689.

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