

Lifetime CARB Compliance!

**VECTOR™**

Premium Performance Series

Even Smarter Thinking



TRANSICOLD

# Maximum Efficiency and Versatility. Greater Sustainability.



With its simply smarter technology, the Vector™ trailer refrigeration platform has led transport refrigeration innovation for more than two decades. For 2023, we've done it again, with three advanced units that build on the platform's solid reputation for versatile all-electric refrigeration, fuel economy, low noise, reduced maintenance and low total cost of ownership.

## Introducing:

- **Vector 8700** single-temperature unit
- **Vector 8800MT** multi-temperature unit
- **Vector 8811MT** multi-temperature unit for center-divide trailers



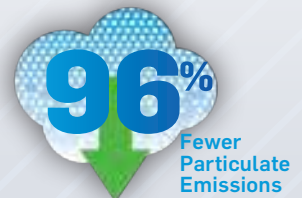
## Better Fuel Efficiency

Supporting the Vector system's proven E-Drive™ all-electric refrigeration architecture, the new units feature a three-speed engine with common-rail fuel injection that delivers up to 10% greater fuel efficiency than achieved with standard Vector units.



## More Sustainable

Improved efficiency, coupled with a 96% reduction in particulate emissions, makes the new Vector units the most environmentally sustainable in the series.



## Enhanced Regulatory Compliance

The Vector premium performance unit is EPA Tier 4 compliant and provides lifetime compliance with current California Air Resources Board (CARB) requirements without the need for future engine emissions systems.



# The Industry-Leading All-Electric Trailer Refrigeration System, Even Better



## A New Engine That's Like a Familiar Friend

The new Vector units take advantage of a proven, yet advanced version of the familiar Kubota engine used in current Vector models. The Kubota V2403 smart engine complements the traditional high and low speeds with a third one, called "eco speed." When ambient and internal temperatures permit, this new speed automatically activates, running at even lower RPMs for added fuel economy.

## Clean Engine Technologies

The engine's common-rail fuel injection is supported by an enhanced fuel filtration system and diesel oxidation catalyst. Combined, these clean engine technologies push particulate, hydrocarbon and NOx emissions to new lows, helping fleets achieve their sustainability goals. Unlike competitive trailer refrigeration systems, the engine does not require complex exhaust gas recirculation (EGR) to achieve emissions targets, and diesel particulate filters are not required for long-term CARB compliance.\*

## Lifetime CARB Compliance

The lower emission engine now allows you to use your TRU in California indefinitely\*. No more limitations on CARB life, and diesel particulate filters are not required for long-term CARB compliance.

The Vector units also use the new-generation refrigerant R-452A, which has a global warming potential 45% lower than the traditional refrigerant used on most transport refrigeration units.

\* Based on CARB's Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units, 2022 Amendments..

## Taking High-Performance Cooling in Stride

Using efficiency-optimizing technology, Carrier Transicold units provide more BTUs of cooling per engine RPM than competitive units. In other words, competitive units must run harder than a Vector unit to achieve similar capacities.

## More to Love with a Vector

The Vector system uses a high-output generator to power the E-Drive all-electric refrigeration system. Unlike conventional refrigeration systems, Vector units can smartly activate individual components — such as the compressor and fans — only when needed, so components run fewer hours and last longer. With the elimination of routine-maintenance items, such as belts, pulleys and shaft seals, maintenance is reduced.

Vector units offer built-in electric standby, so they can be powered off of the electrical grid when parked, eliminating engine-related fuel consumption, noise and emissions during loading, unloading and staging.

## You've Got Options

Whether your fleet is seeking compliance with stricter regulations to operate in California, or simply needs to take fuel efficiency to the next level, the Vector 8700, 8800MT and 8811MT provide versatile choices unmatched in the industry.



# Advanced Technologies to Deliver Premium



**1 NEW:** Enhanced Fuel Filtration that supports common-rail fuel injection.



**2 Fully Hermetic Electric Scroll Compressor**, with 70% fewer moving parts than a reciprocating compressor, it is lighter, quieter and eliminates the shaft seal, reducing maintenance.

**Telematics Hardware Included** so you can monitor unit cooling and performance from day one of operation using Carrier Transicold's industry-leading platform, enabled via your choice of three data plans.

**Factory-Installed TRU Mount Solar Panel Option** to help maintain battery charge to support the unit and its telematics system.

# Performance, Sustainability and Compliance



**3 NEW: 3-Speed Kubota 2.4 liter Engine** compliant with EPA Tier 4 regulation for engines less than 25 HP and CARB's 2022 amendments to the Airborne Toxic Control Measure for Transport Refrigeration Units.

**4 NEW: Common-Rail Fuel Injection** that reduces particulate matter emissions and lowers fuel consumption.

**5 NEW: Maintenance-Free Diesel Oxidation Catalyst** that reduces hydrocarbon and other emissions.

**R-452A Refrigerant**, with significantly lower global warming potential than traditional transport refrigeration unit refrigerants and also compatible with other models in the X4 series for fleets that want to standardize.

**Lifetime CARB Compliant Engine** Lifetime CARB compliant engine that can be operated indefinitely in California without complex exhaust gas recirculation or additional engine emission systems.

# VECTOR™

## Premium Performance Series

Maximum Efficiency and Versatility.  
Greater Sustainability.

### Even Smarter Thinking

Specifications are subject to change without notice.  
Form 62-12235.

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