



VECTOR eCool™

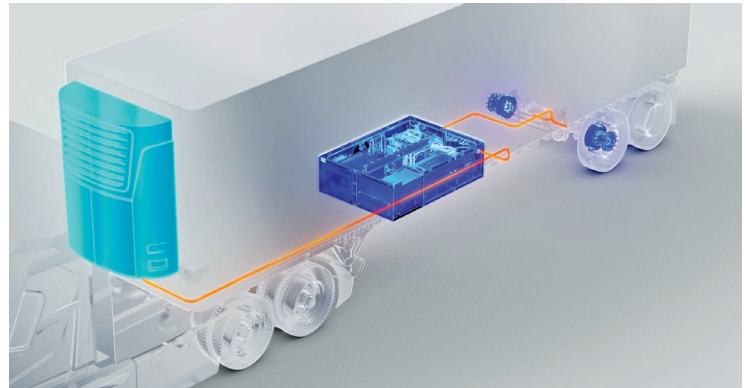


ZERO-EMISSION REFRIGERATED TRAILER SYSTEM

Driving the Future with Sustainable Cooling Technology

Carrier Transicold is advancing its portfolio of zero-emission transport refrigeration solutions for North America with the release of a refrigerated trailer system that sustainably creates its own power using leading-edge energy recovery and storage.

The **Vector eCool™** system combines an all-electric Vector trailer refrigeration unit with a next generation mobile power unit that is designed as a mobile power source for Transport Refrigeration Units (TRUs). The system utilizes in-wheel electric motors to capture regenerative power. This power is then transformed into electric energy, which is stored in the system's battery or shared with the TRU as needed. The mobile power unit system can also be charged with a standard shore power AC power connection and is compatible with the Vector series TRUs that run on 480V 3-phase shore power for electric standby. This regenerated energy can power the Vector refrigeration unit with none of the emissions or noise associated with diesel engines.



The zero-emission refrigeration system utilizes regenerative energy captured by the leading-edge energy recovery and storage system and stores it in a battery under the trailer for use by the Vector refrigeration unit mounted on the front of the trailer.

A New Generation System

At the core of the trailer system is Carrier Transicold's Vector™ refrigeration unit, which uniquely uses E-Drive™ all-electric refrigeration technology to chill and freeze efficiently with reduced maintenance requirements. Its electric operation is ideally adaptable to a power solution which utilizes innovative in-wheel motor technology to capture and store clean, regenerative energy.

From its inception, the Vector platform's onboard power plant has been a high-performance generator coupled to a diesel engine. However, the Vector eCool™ system offers the potential to eliminate the engine and generator, producing "free" electricity without the fuel consumption, emissions and engine noise typically associated with conventional trailer refrigeration systems.

Key Benefits



ZERO EMISSIONS

No engine/No emissions.
When parked, run the refrigeration system via stored battery power, regenerative energy, or shorepower.



SUSTAINABLE

Low-GWP refrigerants and regenerative energy make for a greener fleet.



EFFICIENT

E-Drive maximizes efficiency while reducing maintenance associated with conventional diesel refrigeration units.



QUIET

Eliminates diesel engine noise, resulting in noticeably quieter operations.

