



# **VECTOR™ 8100**



**HIGH CAPACITY, EFFICIENT ENERGY  
MANAGEMENT, NO DIESEL EMISSIONS.**

*The next generation of cold storage solutions.*



## Condenser Dimensions

76.4" x 85.7" x 22.8"  
(1,940 x 2,176 x 579 mm)

## Evaporator Dimensions

66.3" x 45.2" x 8.2"  
(1,684 x 1,149 x 280 mm)

## Body Opening

66.8" x 46.0" (1,696 x 1,168 mm)

## Approximate Weights

1,150 lb. (520 kg)  
Battery: 50 lb. (23 kg)

## Cooling Capacity:

Ambient at 100°F (38°C)

Evaporator Return Air Temp.	Electric Operation	
	BTU/hr	Watts
35°F ( 2°C)	60,000	17,585
0°F (-18°C)	35,000	10,260
-20°F (-29°C)	24,000	7,035

## Evaporator Airflow

Applied system performance:  
3,100 cfm (5,270 m3/hr)

The Vector™ 8100 system is the new direction in financially and environmentally sustainable cold storage solutions. This all-electric unit eliminates the noise, emissions and fuel consumption associated with traditional diesel cold storage units. The Vector 8100 system offers high reliability, next-generation efficiency savings and an energy management system that adjusts to changes in a facility's electrical supply.

**Next generation components** for best-in-class reliability and performance. Exclusive high efficiency microchannel condenser coil, low noise vortex suppression condenser fans, high efficiency electric scroll compressor and damage-resistant composite skins.

**High performance system featuring** a cool-only refrigeration system that eliminates the compressor shaft seal and many brazed joints, significantly reducing the chance of refrigerant leaks. Electric heating produces maximum heating and quick defrosts regardless of the outdoor ambient temperature.

**TRU-Demand™ energy management** logic monitors and efficiently regulates power draw to save energy costs. The maximum current draw may also be adjusted to regulate power draw from electrical infrastructure.

## Standard Features Include:

- Electric operation
- 460V/3PH/60Hz
- Automatic phase reversal
- Fully hermetic electric scroll compressor
- Refrigerant R-404A, 14lbs (6.3 kg)
- TRU-Demand™ high energy efficiency
- Electronic expansion valve
- Compressor economizer system
- Electronic suction modulation
- Brazed plate heat exchanger
- Automatic start/stop power saver
- Electric heating and defrost system
- APX™ Control System
- IntelliSet™ with ProductShield™
- DataLink™ data recorder
- Information dashboard
- Multilingual graphical display
- Pretrip and Virtual Tech diagnostics
- Integrated USB port

**Built-in brown out protection** keeps the unit running during low voltage conditions by monitoring current draw and automatically adjusting its operation. In the event of an outage, stagger starting logic avoids a draw on the grid by preventing multiple units from starting simultaneously when the power returns.

**APX™ Control System** features multi-language capability, keypad lockout to prevent unauthorized changes or tampering, IntelliSet™ commodity profiling and economy option, integrated data recorder, integrated diagnostics, hour meters and USB port.

**Environmentally sustainable** system with no diesel engine emissions, a lower carbon footprint, and an extremely quiet solution for operations with residential neighbors sensitive to diesel engine noise.

## Standard Features (continued):

- eSolutions™ telematics system for remote monitoring and control
- High efficiency microchannel condenser
- Maintenance free AC fan motors
- V-Force™ vortex suppression fans
- TurboAir™ evaporator management
- Composite doors with single-latch release
- Installation package
- Screw-post battery terminals

## Accessories and Options:

- Open trailer door indicator and shutdown switches
- Evaporator drain line extensions
- Remote light bar
- Remote temperature probes
- Unit impact protection bumpers
- 40-amp auxiliary load battery charger
- Flex Power™ dual voltage standby
- Door locks
- Chrome grille/stainless latch package
- Refrigerant R-452A, 14 lb. (6.3 kg)
- AutoFresh™ air exchange
- DataTrak™ remote communications
- Full bottom panel

**APX™**  
CONTROL SYSTEM

Specifications are subject to change without notice.  
Warranty: Product warranty and limitations are outlined in Form 62-11671.  
This warranty is applicable only in North America. Consult your Carrier Transicold representative for warranty coverage elsewhere. Form 62-11805 Rev D.

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