



United Technologies

# VECTOR™ 8100

High capacity, efficient energy management,  
no diesel emissions. The next generation  
of cold storage solutions.



# PERFORMANCE SPECIFICATIONS

## VECTOR™ 8100



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.

**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 massive 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.

### 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 Weight

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

### Cooling Capacity

Ambient at 100°F (38°C)

| Evaporator Return Air Temp. | Electric Operation |        |
|-----------------------------|--------------------|--------|
|                             | Btuh               | 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)

### 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

### Standard Features continued:

- High efficiency microchannel condenser
- Maintenance free AC fan motors
- V-Force™ vortex suppression fans
- Condenser coil hail/bug guard
- TurboAir™ evaporator management
- Durashell™ 2 composite doors
- 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
- Microprocessor impact protection bumper
- 40-amp auxiliary load battery charger
- Flex Power™ dual voltage standby
- Door locks
- Chrome grille/stainless latch package
- Custom color paint
- AutoFresh™ air exchange
- DataTrak™ remote communications

**APX™**  
CONTROL SYSTEM

Specifications are subject to change without notice.

Warranty: Product warranty and limitations are outlined in Form 62-11671.

This warranty applicable only in North America. Consult your Carrier Transicold representative for warranty coverage elsewhere. Form 62-11805.

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