



MULTI-TEMPERATURE TRU STANDARD FEATURES



Engine

- CARB ULETRU "Evergreen" Diesel, also meets lower standard EPA Tier 4 Final
- HATZ 4 Cylinder 2.0-liter water cooled industrial diesel engine
- 24.9 HP at 1800 RPM booster high speed
- High torque output, allows a lower fuel-saving high speed, dramatically reducing engine noise
- Electronic variable speed engine control
- Fuel-saving, ultra high-pressure BOSCH common rail injection
- Zero maintenance DOC (Diesel Oxidation Catalyst)
- Tuned intake suppressing diesel drone
- 50 Gallon 22" single filler, industry standard aluminum fuel tank

Engine Servicing

- Self priming fuel system
- Simplified construction eases servicing and repair access
- 3000 hour service interval
- 9.6 qt oil capacity, regular mineral API CK-4 (Low Ash) Oil, 10W-40 supplied
- Automatic adjusting valve lifters, no cam belt
- Water pump driven by a long life serpentine belt (6,000 hours)
- Long life fuel filter with water separator
- Transparent lift pump fuel filter for ease of inspection
- Long life coolant
- Water drain on aluminum fuel tank
- Advanced CAN diagnostics

Electrical

- Direct drive permanent magnet AC generator
- Solid state 12v 40A battery charger
- 45W 12v top-mounted solar panel, angled for drainage with charge controller
- 850CCA 98AH Group 48 (H8) battery
- 480v automatic phase reversal
- Standard shore power requirements, 480v/30amp/3ph/60Hz
- Integrated, industry standard shore power socket located at rear roadside (Hubbel HBL430B7W)

Refrigeration System

- High performance, semi-hermetic, 2 stage, 4 cylinder piston compressor
- Fuel-saving compressor unloaders
- Electronic suction modulation valve output control
- Electrical heating and defrost system, dramatically reduces duty cycle on compressor
- Evaporator in core electrical defrost rods provide faster defrosting
- Front mounted efficient microchannel condenser coil
- 15.4 lbs R452a refrigerant
- Hybrid architecture allows zones to heat and cool independently of each other.

Proven Reliability

16 years of development with the industry's highest quality components and best design has resulted in an unmatched unit with all-around capabilities.

High Refrigeration Output

A high-torque engine drives the compressor for strong deep-frozen capability in the most demanding environments, delivering up to 20% greater cooling capacity at -20°F.

Variable Speed Operation

Industry first of stepless speed control, engine speed matches refrigeration system demands. A 1270 RPM minimum speed and 1800 RPM maximum speed saves fuel and cuts noise.

Robust Electrical System

Recognizing the increased electrical demands imposed by telematics, the system comes standard with a 45W solar panel designed to trickle-charge a premium EFB (Enhanced Flooded Battery).

Integrated Airflow

- Advanced open fin evaporator, half as many defrost cycles
- Flexible rubberized snorkels transition air from unit to ceiling
- Variable speed, high-velocity fans provide powerful air flow
- Removable & cleanable FG Vortex bulkhead smoothly directs return air

Micro & Electronics

- Fast power up micro controller
- Multi language display
- Easy access max output modes, normal, eco, and booster
- SMV modulation for top freeze prevention
- Rear door switch
- Ultrasonic fuel level sender
- Combination LED fuel level sensor and alarm light
- Low voltage Battery disconnect
- CAN & LIN bus data connectivity and expansion
- Over-the-air system software capable and Cargobull Sets
- Remote data transmission enabled

Body Shell and Construction

- Galvanized & coated frame
- 2 piece bolted frame
- Low profile avoids impact damage and allows for close coupling for increase fuel efficiency
- Full bottom panel

Direct Drive Technology

Hybrid based technology direct couples the diesel engine and the generator, eliminating problematic centrifugal clutches and fast wearing drive belts.

Quietest Operation

Whisper quiet diesel operation, virtually silent electrical operation.

Industrial Diesel Engine

Uses a DOC and common rail injection to meet ULETRU emissions (No maintenance required EGR or DPF).

Standard 480v Shore Power

Provides zero local dock emissions. Shore power connection is fully integrated into the rear roadside of the trailer.

- Bottom discharge engine bay cooling fan
- Durable plastic full width doors with single latch
- Silent kit, sound absorbing doors

UTILITY TrailerConnect Telematics System

- Body Control Unit (BCU)
- Independent temperature probe at host and remote return air
- Direct CAN bus control & data sharing
- Local memory & long term cloud storage
- WiFi connection to local app
- 4G GSM data transmission
- ABS monitoring, includes odometer, axle weight and tire inflation status
- Door sensor integrated in the door frame of the trailer
- 5 Years data service included

Accessories and Options

- Rear remote-control panel
- Liftgate battery pack charging
- Up to 3 additional temperature probes
- Shore power brake interlock
- CAN gateway splitter
- Host unit air chutes for large compartments
- ePTO compatible
- Lower-GWP R454A refrigerant

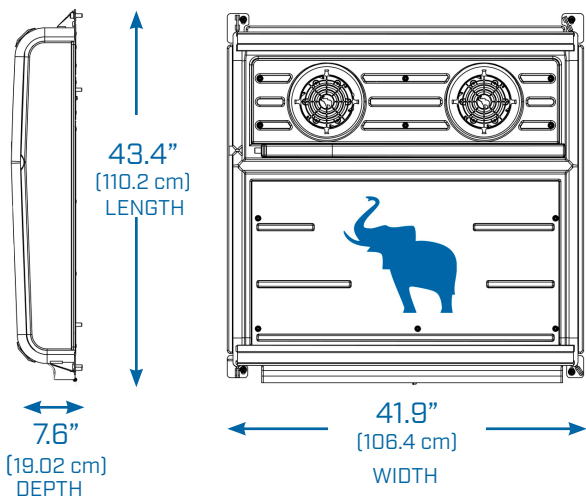


The First Name In Trailers®

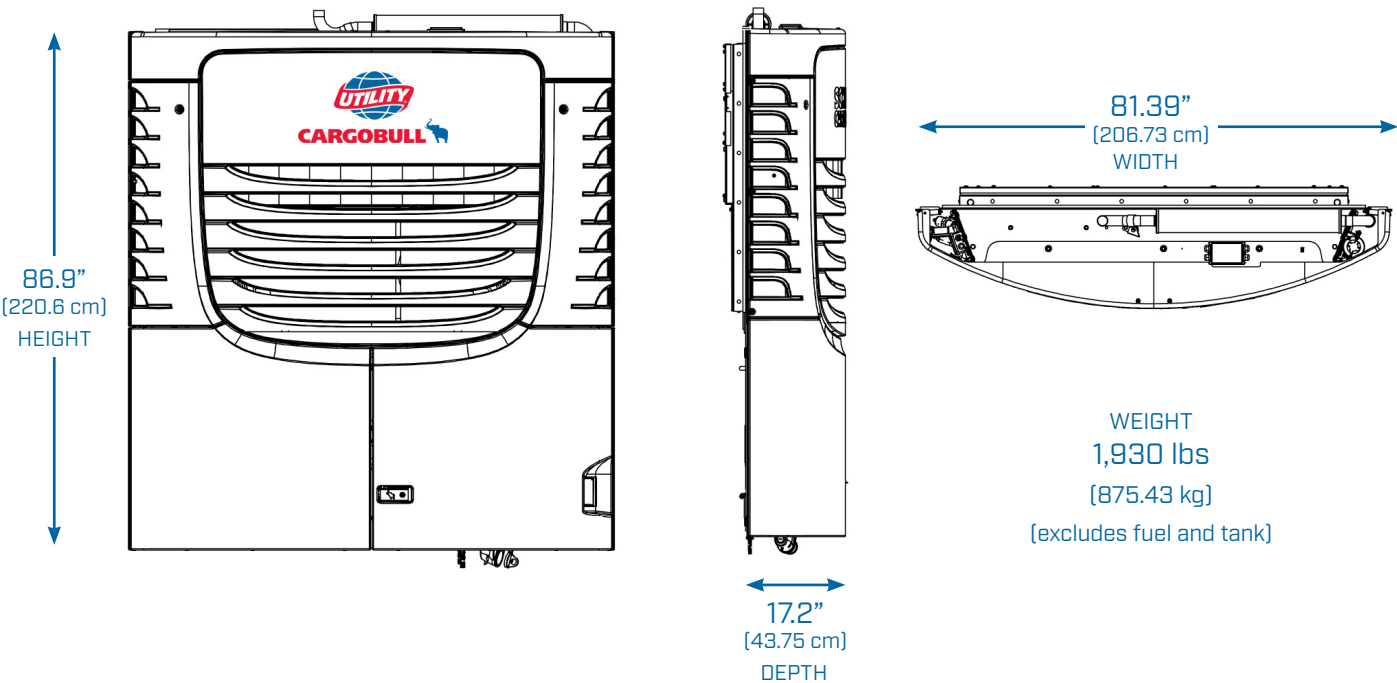
REMOTE EVAPORATOR



- Ultra-low profile evaporator, approximately 5" shallower than the competitors
- Highest industry perishable range output, of half width single discharge evaporators
- Integrated and replaceable stainless steel evaporator guard
- Advanced open fin coil, provides half as many defrost cycles
- In coil 480v electrical defrost rods, provide faster evaporator defrosting
- Dual 480v high power fans provide high velocity and more air volume for larger rear compartments
- Independent SMV modulation for precise remote evaporator output control, & providing enhanced top freeze protection
- Conventional or Combination modes: in combination mode, evaporator provides additional air flow and cooling while synchronizing temperature set points



UNIT WEIGHT & DIMENSIONS



COOLING CAPACITY PERFORMANCE RATINGS

Evaporator Return Air Temp (Ambient temp 100° F)	DIESEL OPERATION		SHORE POWER OPERATION	
	BTU / HOUR	WATTS	BTU / HOUR	WATTS
35°F / 25°C	58,700	17,203	60,100	17,610
0°F / -18°C	34,000	9,964	35,400	10,350
-20°F / -29°C	22,000	6,301	22,900	6,700



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