



VOLVO TRUCKS

Volvo Parking Cooler



Volvo's battery-powered parking cooler system provides a no-idle, sleeper climate control solution that delivers maximum driver comfort while also reducing emissions and lowering fuel costs.

The battery-powered parking cooler provides the most environmentally friendly and efficient solution for maintaining sleeper comfort while parked. Available on all 61" and 77" sleepers, this battery-powered system meets TMC requirements and is rated to keep the sleeper comfortable at 74 °F for up to 10 hours*. The battery-powered parking cooler eliminates the need for idling the engine to keep the truck cool. This parking cooler works only while the truck ignition switch is in the off position.

Features:

- Quiet Operation
- Warranty through Volvo
- Automatic temperature control
- Recirculation filter
- Evaporator filter gives extended coil life
- Serviceable drier in condenser assembly
- Installed at the OEM manufacturing facility
- System is recognized for weight exemptions, reference ATRI
- Serviceable evaporator coil, condenser coil and TXV
- Qualifies for Federal Excise Tax (FET) exemption
- Brushless motors in condenser, fan, evaporator blower and compressor
- California Air Resources Board (CARB) approved (ARB #08-643-004)
- SmartWay certified



*Depends on ambient temperature, solar load and truck insulation.

Display Functions:

- On/Off button
- Modes: Auto / Heat / A/C
- Blower Speed
- Temperature Setting
- Diagnostics
- Battery Status



Control/Display inside sleeper on rear wall

Luggage compartment
120V inverter/charger & fuel-operated heater (recommended)

320A Leece-Neville alternator with remote battery sense and high amperage cables

Starting batteries
(4) 925 CCA, AGM
batteries located under driver's door

Fuel Fired Heater
Suggested

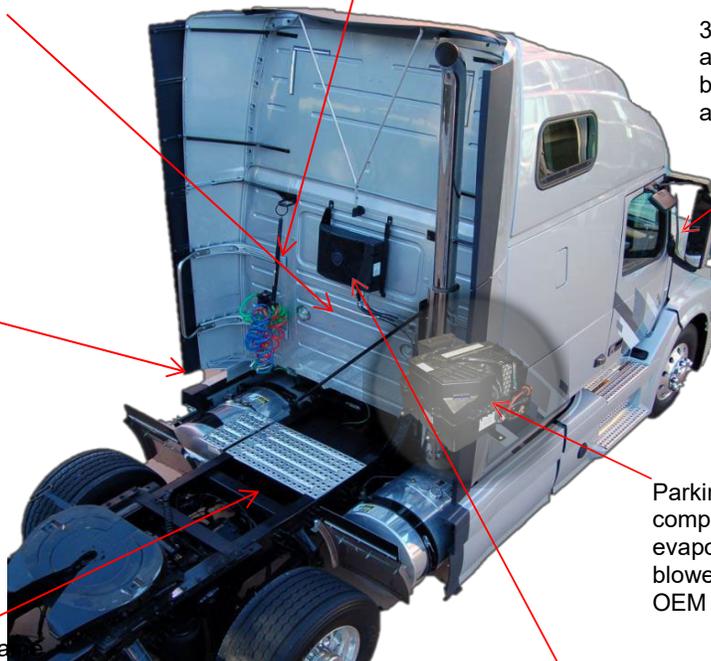
Battery box located between the frame rails with (4) 800 CCA, AGM (100-AMP Hour) deep-cycle batteries and Bergstrom battery management systems (BMS)

BMS Features:

- Mounted in the auxiliary battery box
- Monitors voltage and current in/out of batteries
- Monitors battery charge status and battery health status
- Controls battery isolator

Parking Cooler in luggage compartment contains evaporator, compressor, and blower. System connects to OEM ducting.

Condenser mounted on the exterior of the back sleeper





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Models: VNR640; VNL 740, 670, 760 and 860

Data Code Specifications	Description
82AG1X	Battery-powered HVAC System

Data Code Specifications	Description
9YCA1X	Consumer battery box in frame
9ZCA1X*	4 Volvo 800 CCA, AGM group 31 deep cycle 12V batteries (100-amp hour rating)
A1DA1X	East Penn (Deka) consumer battery

Data Code Specifications	Description
PJXMUX	320 AMPS Leece-Neeville high-output, pad-mount alternator with remote sense (12V)
810144*	4 Volvo 925 CCA, AGM deep cycle 12V batteries, 3700 CCA (primary starting & charging)
58XA1X, B1X OR C1X	East Penn (Deka) consumer battery

Data Code Specifications (Suggested Options)	Description
5HXA1X	120V Shore power kit
41X11X	Cab parking heater
LNXAIX	120V inverter/charger, under bunk compartment mounted
LFXA1X	Volvo battery lifeguard system

*Requires 4 starting batteries and 4 auxiliary batteries for each system.

Weights & Dimensions

Inside Evaporator Unit

- 43 lbs. (19,5 kg)
- 19.7" x 16.9" x 13.4"
(500mm x 430mm x 340mm)

Outside Condenser Unit

- 17 lbs. (7,7 kg)
- 20.9" x 5.7" x 14.8"
(530mm x 145mm x 375mm)

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Meets TMC Recommended Practices (RP) 432A

This RP offers guidelines for performance requirements of engine-off HVAC systems for sleeper cabs.

- Factory installed curtains closed
- Initial sleeper temperature 73 +/- 5°F
- 100°F ambient outside temperature
- 50% relative humidity
- 600 W/m² solar load on vehicle roof