



PETERBILT TRUCKS

SmartAir



Peterbilt's proprietary SmartAir™ system provides a no-idle, sleeper climate control solution that delivers maximum driver comfort while also reducing emissions and lowering fuel costs.

The SmartAir system is powered by four, heavy-duty AGM batteries that are charged during normal driving conditions. When the engine is off, SmartAir provides quiet, efficient, high-power cooling capacity for up to 10 hours* on a single charge. Peterbilt's SmartAir design features one of the smallest footprints in the industry, maximizing valuable under-bunk storage space. It also features on-board diagnostics, full automatic temperature control in A/C and heating modes and a digital LCD display that makes it easier for drivers to control the unit and provides battery monitoring.

Features:

- Ease of operation
- Automatic temperature control for A/C or heater
- Easy service diagnostics
- Warranty through Peterbilt
- Low maintenance
- More under-bunk storage space
- Quiet operation
- Qualifies for Federal Excise Tax (FET) exemption
- System is recognized for weight exemptions, reference ATRI
- Brushless motors in condenser, fan, 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



Digital LCD Display inside sleeper on rear wall

Fuel-operated air heater

Starting batteries
(4) 2538080

Auto Start-Stop
(recommended)

Separate battery bank with (4) AGM deep-cycle batteries with battery management system (BMS). Available with location options.

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

Exterior mounted condenser (height options available)

270 Amp alternator

SmartAir System in the luggage compartment (evaporator, compressor, and blower connected to the existing sleeper ducting)





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Models: 579, 579 UltraLoft and 567

Data Code Specifications	Description
7310270	SmartAir No-Idle Sleeper AC system
2539720	LVD (Low Voltage Disconnect) option
2511450 / 2512120	270-amp alternator (or greater)
6810035 / 7040180	Sleeper walkthrough curtain/privacy windshield (Wrap-around curtain)
6814270 / 6814250 / 6814260	Thermal insulation package
7310260	Fuel-fired sleeper heater with digital (optional)
7331000	Engine auto start/stop system with audible alarm (optional)
7331020	SmartAir No-Idle Sleeper AC system with mid-mount condenser

Data Code Specifications	Description
6010330	Aero battery box, aluminum, left hand under the cab
6020020	Aluminum battery box, non-slip, left hand under the cab
2538080	Starting batteries (need 4)

Data Code Specifications	Description
7330980	SmartAir NorthStar AGM-31 Auxiliary Batteries
6011010	Additional HD aluminum battery box, right hand under the cab, behind fairing
6011020	Additional HD aluminum battery box, left hand back of the sleeper, composite cover
6011040	Additional HD aluminum battery box, left hand back of the sleeper, aluminum cover

*Requires 4 starting batteries (2538080) and 4 auxiliary batteries for each system.

Weights & Dimensions

Inside Evaporator Unit
- 48.5 lbs. (22.0 kg)

- 15.5" x 15.6" x 10.5"
(393mm x 396mm x 266mm)

Outside Condenser Unit
- 16 lbs. (7,3 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