



B-100

Reliable all-electric temperature control for fresh products.





New Battery-Operated Units for Fresh Applications



- No compressor on vehicle engine
- Versatile roof- or front-mount condenser
- Ultra slim evaporator for minimum intrusion
- No vehicle modification required
- Low Amp consumption
- Road & Electric standby operation
- Top class performance

B-100 is the new all-electric unit that provides outstanding refrigeration capacity for small trucks and vans. No compressor in the engine compartment is needed. The system is powered by the vehicle's battery and controlled by the Thermo King Direct Smart Reefer controller.

The B-100 features an ultra-thin, ceiling-mounted evaporator which increases payload space. It's built and backed by the world leader in transport temperature control systems, offering a world wide service network 24 hours a day, 7 days a week. Just another good reason to choose Thermo King's B-100.



Description

The B-100 Thermo King refrigeration unit is a cooling system designed for fresh applications on small trucks and vans. The compressor is powered by the vehicle's battery. An AC motor in the condenser allows the unit to run on electric stand-by.

Refrigeration Capacity

System net cooling capacity under ARI Conditions (100°F ambient)

Road Operation	
35°F	3600 BTU/hr
0°F	1300 BTU/hr
Electric Stand-by	
35°F	3700 BTU/hr
0°F	1400 BTU/hr

Refrigerant

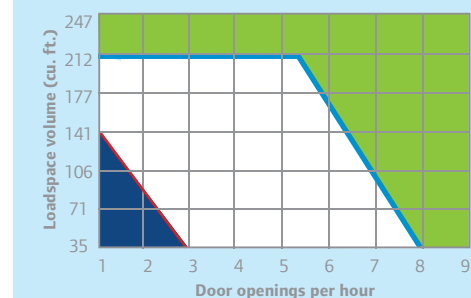
R-134a

Operation

Start-stop cooling on battery operation/stand-by operation
Low battery voltage protection

B Series Selection guide

Chilled compartment ($k=0.123 \text{ BTU}/(\text{hr} \times \text{ft}^2 \times \text{R})$)



— ambient: 75°F, compartment: 35°F
— ambient: 100°F, compartment: 35°F

Example: 75°F maximum ambient, chilled compartment, at 35°F, 5 door openings per hour: B-100 suits vehicles up to 212 cu. ft.



Evaporator blower performance

Evaporator blower performance at 0
in water column external static pressure:
Airflow volume: 400 cfm

System components

- Condenser
- Ultra slim evaporator ES100
- Installation kit
- In-cab control box

Compressor

- Number of cylinders: 2
- Displacement: 2.9 cu. in.

Refrigeration

- HFC R-134a
- Chlorine: Zero
- Ozone Depletion Potential: Zero
- Refrigerant charge: 2.3 lbs.

Defrost

- Automatic hot gas defrost

Standard features

- In-cab Controls with digital LED thermometer
- Automatic hot gas defrost
- Electric thermostat

Electric

DC voltage options:

12 Vdc and 24 Vdc

Electric standby options:

230V/1 Phase/50 Hz

230V/1 Phase/60 Hz

115V/1 Phase/60 Hz

Total current consumption on the road:

63 A at 12 Vdc

31 A at 24 Vdc

Total stand-by current consumption:

230V/1 Phase/50 Hz = 5.5 A

230V/1 Phase/60 Hz = 6.5 A

115V/1 Phase/60 Hz = 10.5 A

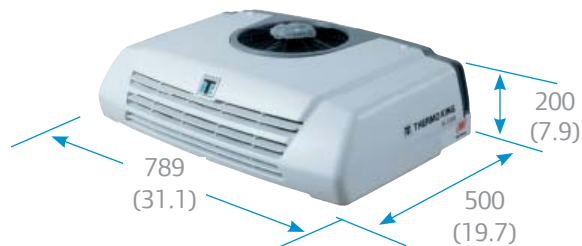
Amp draw (approximate): 65 A/13.5

Vdc and 32 A/27 Vdc

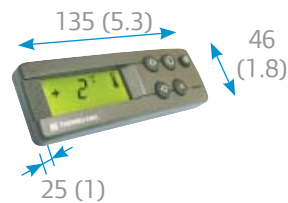
Vehicle battery minimum rating: 90 Ah

(will vary depending on other electrical requirements of truck)

Dimensions



Condenser



In-cab
Direct Smart Reefer



ES100
Ultra Slim Evaporator

Weights (approximate)

B-100 130 lbs.

ES100 20 lbs.

Warranty Summary

Terms of the Thermo King Express Warranty
are available on request.



Providing equipment and services to manage controlled-temperature environments for food and other temperature-sensitive products, our Climate Control Technologies sector encompasses both transport and stationary refrigeration solutions. Our product brands include Thermo King®, a world leader in transport temperature control systems, and Hussmann®, a manufacturer of refrigeration and food merchandising equipment.

www.thermoking.com www.hussmann.com www.ingersollrand.com