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B-100

Superior *all-electric* Temperature Control for chilled products.



Key Points:

- Compatible with vehicles equipped with original AC system
- Ultra slim line evaporator for minimum intrusion
- No vehicle modification required
- Low Amp consumption
- Road & Stand-by operation
- Top class performance
- User friendly Direct Smart Reefer

B-100 Features and Options

Standard Features:

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

Dealer Options:

- Load Protection
 - [Door switches](#)
- Life Cost Management
 - [Guaranteed Maintenance Contracts \(Total Kare\)](#)

B-100 Specifications

Description:

- B-100 is the new All Electric unit range to provide outstanding refrigeration capacity for small trucks and vans.
- No compressor in the engine compartment is needed, which allows the vehicle to run its original system.
- On the B-100 20 model, an AC motor in the condenser allows the unit to run on electric stand-by.
- The system is powered by the vehicle's battery (minimum recommended 90 Ah and 125 A Alternator) and controlled by the Thermo King "Direct Smart Reefer" controller.
- B-100 features an ultra thin ceiling mounted evaporator which increases payload space.

Models Available:

- B-100 10: Cool only operation with vehicle battery driven compressor.
- B-100 20: Same as B-100 10 but with electric stand-by (220V/1 Phase/50 Hz)
 - Amp draw (approximate): 63 A/13.5 Vdc and 31 A/27 Vdc
 - Vehicle alternator rating: 125 A
 - Vehicle battery minimum rating: 90 Ah

Refrigeration Capacity: European Standard - System net cooling capacity under ATP Certificate M620 conditions including 30 degrees C (86 degrees F) ambient.

Degrees C	Degrees F	Air Return On the Road		Electric stand-by 50 Hz	
		Watts	Btu/hr	Watts	Btu/hr
0	32	1,050	3,586	1,078	3,682
-20	-4	390	1,332	428	1,462

Operation:

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

Refrigerant:

- HFC R-134a
- Chlorine: Zero
- Ozone Depletion Potential - Zero
- Refrigerant charge - 0.95 kg (2.1 lb)

Defrost:

- Automatic hot gas defrost

Compressor:

- Number of cylinders: 2
- Displacement: 47.7 cm³ (2.9 cu in)

Evaporator Blower Performance:

- Airflow volume: 680 m³/h (400 cu. ft/min)

Electric Motors:

- dc voltage options: 12Vdc and 24Vdc
- Electric stand-by options: 230V/1 Phase/50 Hz
- Total current consumption on the road: 12Vdc - 63A 24Vdc - 31A
- Total stand-by current consumption: 230V/1 Phase/50 Hz 5.5A

System Components:

- Condenser
- Ultra Slim Evaporator ES100
- Installation kit
- In-cab Direct Smart Reefer

Weight: (approximate)

	lbs	kg
Condenser w/o electric stand-by	104	47
Condenser with electric stand-by	130	59
ES100 (Ultra Slim evaporator)	20	9

Dimensions:

	Height		Width		Depth	
Condenser	7.9 in	200 mm	31.1 in	789 mm	19.7 in	500 mm
ES100 Ultra Slim evaporator	7.4 in	187 mm	24 in	608 mm	19.3 in	490 mm
In-cab Direct Smart Reefer	1.8 in	46 mm	5.3 in	135 mm	1.0 in	25 mm

Specifications are subject to change without notice.

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