



SB-210

The industry's tightest temperature control.





The SB-210 just keeps getting better.



When first introduced, the SB reefer unit raised the bar of quality standards for design, manufacturing and validation... all key issues for HACCP and other regulatory guidelines. That same pursuit of excellence through technology, coupled with feedback from you, our customers, has raised that level once again. Every category has been addressed:

- Quality improvements in design manufacturing and validation
- Reliability improvements in construction and component selection
- Ease of use with simpler operation for drivers and easier servicing for technicians
- Better load protection with advanced features and simple data management systems
- Communications ready – Plug 'n' Play – no controller modification needed
- Custom configuration for all modes, programming and requirements

SB-210...true fuel savings without sacrificing performance.

- Less fuel consumed in all ambient conditions, hauling fresh or frozen
- Unmatched in the industry
- Consistently less consumption than competitive models
- Advanced engine and control technology provides savings and improves performance

Electric standby saves fuel and reduces emissions.

The SB-210 with optional electric standby allows the unit to run on electric power, reducing emissions and saving fuel.

Rigorous testing makes for a better reefer.

At Thermo King, validation of reefer products and components has always been the rule, not the exception. It's the only way to assure that with your reefer purchase you can count on mile after mile of service, under every

Giving you more:


- Reliability
- Uptime
- System Efficiency
- Temperature Management
- Ease of Use

With less:

- Product Shrinkage
- Maintenance Cost
- Fuel Cost
- Noise

Thermo King is the Green Leader

Thermo King offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs and decrease harmful environmental emissions.

The  symbol indicates a feature that delivers a significant environmental advantage over previous models or the competition.

Reduced Maintenance

EMI-3000, Extended Maintenance Interval includes a special 12,000 hour coolant and high grade mineral oil to significantly extend service life.

- Reduces clean up and disposal costs
- Reduces environmental impact with less spillage and less waste
- Extends engine life
- Reduces maintenance cost up to 45% over competitive models
- Contributes to less operating cost
- This highly touted package features specially designed oil, fuel and air filters

conceivable condition. That promise is no less apparent in the SB-210 with its SR-2 controller. Special engineering and design

consideration was given to the SR-2. That resulted in features like the screen lens (impervious to outside elements) and gold-plated connector pins (to maintain electronic integrity). In fact, Thermo King's thorough dedication to the development of this controller has produced, what is sure to be, the best driver/user interface in the industry.

Easy access and serviceability, SB design lowers maintenance cost.

- Front of unit opens to expose full width
- Top door opens easily with gas-assisted struts
- Main components totally exposed
- Easier service means less downtime

Incorporates exclusive low noise technology...standard.

- Utilizes innovative acoustical grille design
- Incorporates sound-deadening components
- Features tuned intake resonator, special exhaust & muffler components
- Powered by extremely quiet engine
- Additional sound proof material, special door gaskets and sound absorbing foam (optional package)
- Improves driver comfort
- Supports compliance with local noise ordinances

Total life cycle cost determines true value of your reefer.

At the end of the day, Thermo King offers the lowest life cycle cost. When fuel expenses, operating and maintenance costs, downtime expenses and a high residual value at resale are factored together, no one can beat the SB-210.



Cost of Ownership - Residual Value = Life Cycle Cost

i-Box gives access to Thermo King data, improves communications.



- Provides universal means of extracting data
- Works with select communications providers
- Has built-in protocol software

Electric Standby reduces idling,

saves fuel and cuts emissions. 

Thermo King also offers electric standby as an option on all of its trailer units, allowing the units to run on electric power rather than diesel. The result is less fuel burned and reduced emissions while the trailer is stationary in a loading dock or yard.

And because reducing emissions is a priority, all of Thermo King's trailer refrigeration units meet the EPA's Interim Tier 4 emission requirements.

The SR-2 Controller: Value through technology for Accurate temperature control.

**The powerful, SR-2 controller offers:
Not just temperature control, but
total temperature management.**

Improved diagnostics to understand and respond to problems including:

- A comprehensive listing of alarm codes with text descriptions
- Customer-selectable alarms
- A service test mode

So smart it can speak 21 languages

with a multi-lingual text menu.

CargoWatch™ provides temperature and system data for HACCP plan.

- 6 temperature sensors/probes
- 4 door switches
- Humidity sensor
- Data averaging
- Programmable, temperature out-of-range alarms (optional)

Enhanced safety and security for load protection is even more effective with:

- Keypad with lock-out
- Mode-lock
- Phase-correction
- Diesel/electric auto switching
- Setpoint warning
- Return or discharge air control (with ETV)

ServiceWatch™ built in preventative maintenance logger is standard.



- Provides improved diagnostics
- Keeps track of system performance and functionality
- Records all operational parameters
- Extremely easy to use, simple text display for:
 - Changing setpoint
 - Customer selectable alarms
 - System performance monitoring
 - Start of trip







Key Features and Options



Standard

SMART REEFER SR-2 controller
OptiSet™ with FreshSet™
Electronic Throttling Valve (ETV)
(model 50)
ServiceWatch™
EMI-3000 
CargoWatch™
High-capacity condenser coil
Whisper™ quiet technology 
(model 50)
Easy-access door design
Composite exterior panels
Long-life coolant/silicone hoses
Remote status light (model 50)
Standard unit color white
Standard grille color black
Directional air delivery
Vibration isolation system
Aluminum undermount
fuel tank 50 gal. (186 liter)

Options (Factory Installed)

Electronic Throttling Valve (ETV)
Whisper™ quiet technology 
Remote status light
Fuel heater
Frost plug heater
Alternator, 65 Amp, 12V dc
Special color grills
Fresh Air Exchange
i-Box™ interface
CargoWatch™ Accessories:
Electronic Door switches 
Temperature sensor kits

Options (Dealer Installed)

i-Box™ interface
PrimAir™ bulkhead and duct system
CargoWatch™ Accessories:
Electronic Door switches 
Temperature sensor kits
Humidity sensor kits
Fuel level sensor kits
EON Battery 

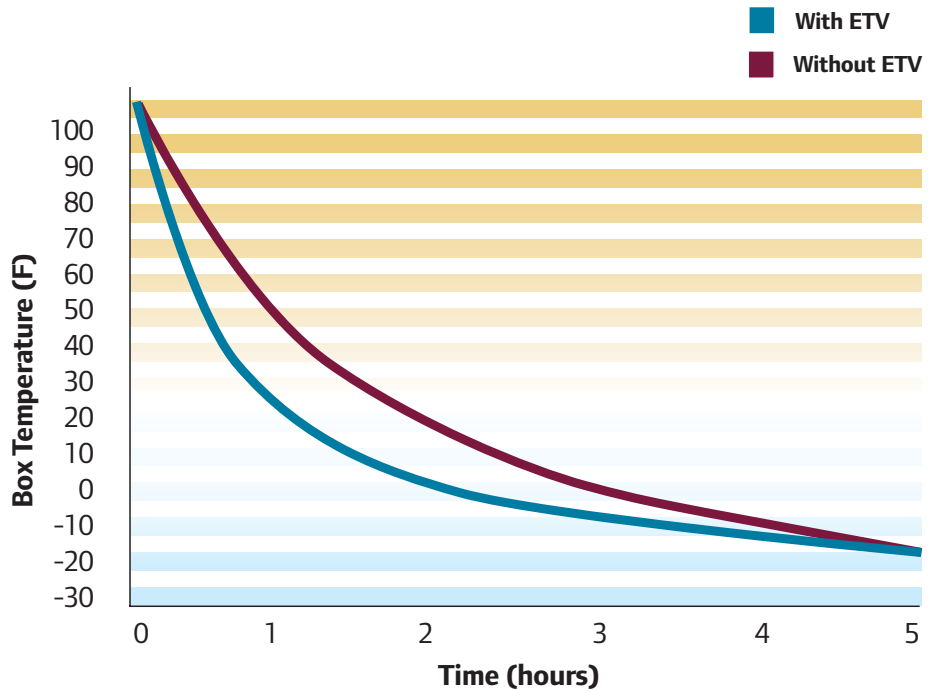


Get your trailer to the right temperature faster with ETV.



The faster you can get the trailer temperature pulled down to your cargo temperature level, the faster you can load and be on the road. The SB-210 Electronic Throttling Valve (ETV) gives you:

- The fastest pull down (and pull up) in the industry
- High capacity evaporator and condenser coils to provide increased capacity



Expert Service and Support are as close as this sign.

Enjoy the support of the Thermo King Dealer Network.



Over 200 factory-authorized service centers nationwide—
find one nearby at www.thermoking.com

System Performance

Description

Microprocessor-controlled, high-capacity, frontmount, diesel-powered temperature control unit with directional air delivery for today's jumbo trailers.

Models available

SB-210 Model 30

Cooling and heating on engine operation using R-404A refrigerant

SB-210 Model 50

Cooling and heating on engine operation and electric standby using R-404A refrigerant

Operation

- SR-2 Controller
- OptiSet™ with available FreshSet™ programmable modes
- Continuous run/Cycle-Sentry™
- Automatic defrost initiation
- Programmable defrost timer
- CargoWatch™ data meets HACCP and NIST standards.

Compressor

- Model X430L
- 30.0 cu in (491.6 cm³) displacement
- High strength forged crankshaft
- Lightweight, aluminum alloy body, heads and sump
- Replaceable cylinder liners
- Vanasil® ringless pistons
- Gerotor oil pump

Engine

- TK486V direct-injection diesel engine
- Four cylinder, liquid cooled
- API classified CI mineral oil after break-in
- 15 qt (14.2 liter) oil capacity
- 34.0 hp rating operating at 2200 rpm
- 3000 hour maintenance intervals
- Meets EPA emissions requirements for Tier 2 through 2007 and Interim Tier 4 through 2012 (applies to units with an engine serial number beginning with "V" or manufactured after April, 2005)

Air flow

3,500 CFM @ 0 in static pressure
3,200 CFM @ 0.5 in static pressure

Refrigeration Capacity

System net cooling capacity at 100°F (38°C) ambient and high-speed engine operation.

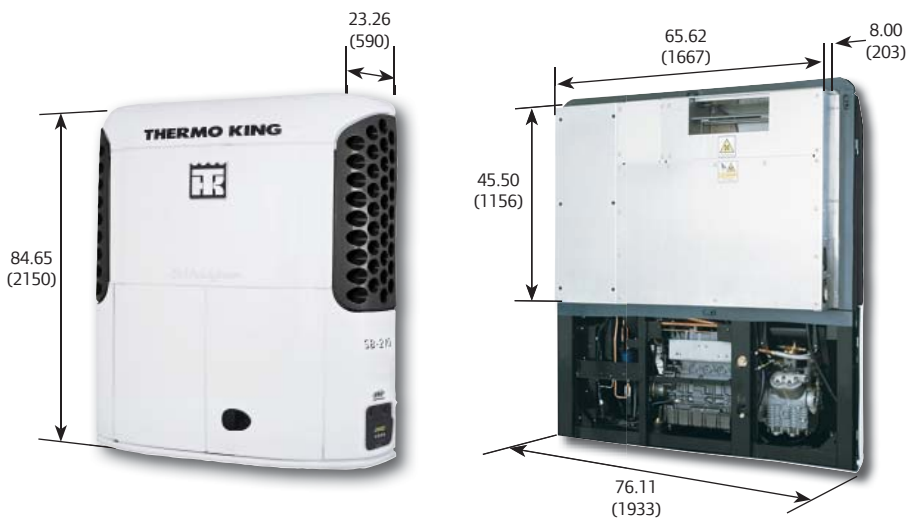
Evaporator Degrees F	Return air Degrees C	Engine Power		Engine Power w/ETV*		Electric Power	
		Btu/hr	Watts	Btu/hr	Watts	Btu/hr	Watts
35°F	1.7°C	51,000	14,950	60,000	17,588	30,000	8,783
0°F	-17.8°C	32,000	9,380	32,000	9,380	22,000	6,441
-20°F	-28.9°C	21,000	6,150	21,000	6,150	15,000	4,400

*Optional

Specifications

Dimensions

Inches (Millimeters)



Weight

Inches (Millimeters)

SB-210 model 30

1635 lbs (742 kg)

SB-210 model 50

1870 lbs (850 kg)

Fuel tank, 50 gallon

35 lbs (16 kg)

Warranty

Terms of the Thermo King Warranty are available on request from your local Thermo King dealer.



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

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