



## *Heat King*

*Dependable freeze protection for temperature-sensitive cargo.*





powerful, reliable,  
efficient...  
**Heat King**



## Heat King features include:

- Extra capacity available for longer thin-walled trailers
- Powerful airflow circulates throughout entire cargo
- Safe – no open flame or catalytic pads
- Runs on readily available diesel fuel
- For use on trailers and intermodal containers
- Efficient heating for cold weather operation

## CYCLE-SENTRY™ for maximum fuel efficiency.

Thermo King's exclusive CYCLE-SENTRY Start/Stop controls are standard equipment on the Heat King, providing maximum fuel efficiency and reduction of engine wear and tear. This feature provides automatic, on-demand heating. The unit starts automatically when heating is required, and stops when heating requirements are satisfied. CYCLE-SENTRY is ideal for intermodal and long distance hauling applications, allowing for extended durations of stand-alone operation in warm or cold climates.

**T**he Heat King is a powerful, forced air heating unit that works on the same basic principle as your car's heating system.

A Tier-II, diesel-powered engine heats liquid coolant in a radiator coil, and a powerful blower forces air across the coil and into the cargo area. The result is safe, efficient, dependable heat inside, no matter how cold it gets outside.

The Heat King unit also features a belt-driven alternator that automatically recharges the unit's battery while the engine is running.

Powerful blower delivers load-encircling air to the entire cargo area. To deliver the heat, the Heat King features a high-performance blower delivery system.

**Heat King keeps your freeze-sensitive cargo safe and warm, no matter how cold it gets outside.**

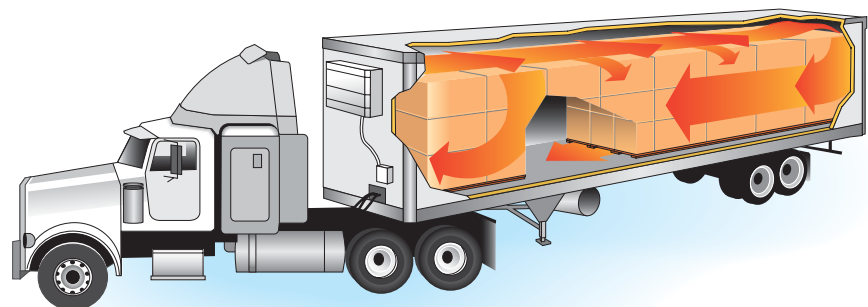
- Paints, chemicals and film
- Pharmaceuticals and cosmetics
- Flowers, plants and fresh produce
- Electronics
- Beverages
- Building materials



## Maximum heat output with dual speed operation.

When operating on high speed, the Heat King delivers substantial heat output, enough heating capacity to protect your cargo no matter how cold it may get outside.

When temperatures moderate but remain below the desired product temperature, low speed provides the appropriate amount of heat output, which still protects your cargo and also conserves fuel.



# System Performance

## Description

A diesel engine powered, frontmount cargo heater with positive, high-velocity load-encircling airflow for precise heat temperature control.

## Models Available

Heat King 400.....Heating Unit

Heat King 400 HO .....High-output Heating Unit

## Heating Capacity

Heat King 400			
Engine Speed	Btu/hr	Watts	RPM
High	30,000	8,790	2,550
Low	10,000	2,930	1,550

Heat King 400 HO			
Engine Speed	Btu/hr	Watts	RPM
High	50,000	14,650	2,950
Low	10,000	2,930	1,550

## AirFlow

Heat King 400		
Engine Speed	CFM	M <sup>3</sup> /hr
High	3,000	5,100
Low	1,800	3,060

Heat King 400 HO		
Engine Speed	CFM	M <sup>3</sup> /hr
High	3,800	6,460
Low	1,800	3,060

## Operation

Automatic start/stop heating

## Standard Features

- TK 2.7 diesel engine
- One-piece unit frame
- Alternator, 37 amp, 12V dc
- Programmable Thermoguard V microprocessor controller
- CYCLE-SENTRY™ start/stop (less battery sentry and block temperature-initiated restart)
- Battery hold-down and tray
- Remote control box
- Centigrade thermometer
- Installation hardware

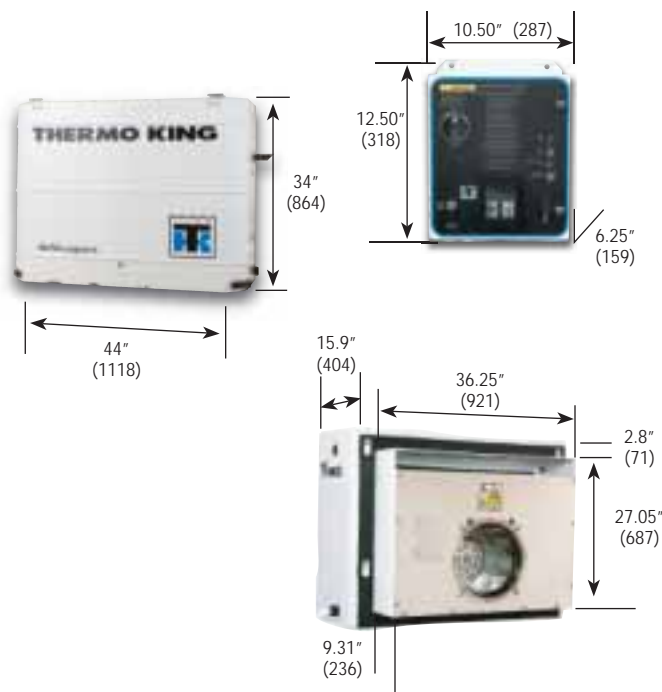
## Optional Features

- Zero cube unit installation kit
- Silicone coolant hoses
- CE mark
- Low noise package (standard on HO)
- Fuel heater – electric
- Synthetic oil
- Battery recharge timer (runs unit to recharge the battery after one hour of null time)
- Battery cable, threaded post
- Fuel tanks (in lieu of standard):
  - 30 gallon (114 liter) undermount aluminum diesel fuel tank
  - 50 gallon (189 liter) undermount aluminum
  - 110 gallon (416 liter) undermount steel

# Specifications

## Dimensions

Inches (Millimeters)



## Warranty

Terms of the Thermo King Warranty are available on request. The unit and its components are warranted to be free from defects in material and workmanship from date in service as follows:

- 12 months parts & labor - entire unit including Thermoguard TG-V microprocessor
- 24 months parts & labor - injection pump, engine and internal parts and radiator coils.

Manufacturer is not responsible and will not be held liable in contract or tort (including strict liability and negligence) for any special, indirect or consequential damages including but not limited to injury or damage caused to vehicles, contents or person, by reason of the installation or use of any Thermo King product or its mechanical failure.

## Weight

(Approximate)

HK 400.....	370 lbs (168 kg)
HK 400 HO .....	410 lbs (186 kg)
30 gallon fuel tank with brackets .....	90 lbs (41 kg)
50 gallon fuel tank with brackets .....	100 lbs (45 kg)
110 gallon fuel tank with brackets .....	308 lbs (140 kg)



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](http://www.thermoking.com)   [www.hussmann.com](http://www.hussmann.com)   [www.ingersollrand.com](http://www.ingersollrand.com)

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