

Heat King keeps your cargo safe and warm inside, no matter how cold it gets outside.

When it gets cold outside, Thermo King's Heat King lets you continue shipping cargo that can be damaged from freezing temperatures.

- *Paints*
- *Chemicals*
- *Pharmaceuticals*
- *Films*
- *Flowers*
- *Electronic components*
- *Plants*
- *Fresh produce*
- *Beverages*
- *Cosmetics*
- *Building materials such as glue and paste*



Heat King Specifications

DESCRIPTION

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

MODELS AVAILABLE

HK-III – Heating unit
HK-III HO – High-output heating unit

OPERATION

Automatic start/stop heating.

HEATING CAPACITY

| HK-III Engine Speed | Btu/hr | Watts | RPM |
|------------------------|--------|-------|------|
| High | 30,000 | 8,790 | 2550 |
| Low | 10,000 | 2,930 | 1550 |

HK-III HO

| Engine Speed | Btu/hr | Watts | RPM |
|--------------|--------|--------|-------|
| High | 50,000 | 14,650 | 2,950 |
| Low | 10,000 | 2,930 | 1,550 |

AIRFLOW

| HK-III Engine Speed | CFM | M ³ /hr |
|------------------------|-------|--------------------|
| High | 3,000 | 5,100 |
| Low | 1,800 | 3,060 |

HK-III HO

| Engine Speed | CFM | M ³ /hr |
|--------------|-------|--------------------|
| High | 3,800 | 6,460 |
| Low | 1,800 | 3,060 |

STANDARD FEATURES

- TK 2.49 diesel engine, HK-III
- TK 2.49 diesel engine, HK-III HO
- 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
- Installation hardware
- Coolant level indicator (HK-III HO only)

OPTIONAL FEATURES

- Zero cube unit installation kit
- Silicone coolant hoses
- Bypass oil filter
- Low noise package (standard on HK-III HO)
- Fuel heater – electric
- 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 gal. (114 liter) undermount aluminum diesel fuel tank
 50 gal. (189 liter) undermount aluminum
 110 gal. (416 liter) undermount steel

Specifications are subject to change without notice.



Thermo King Corporation

Ingersoll-Rand Company
 314 West 90th Street
 Minneapolis, MN 55420-3693
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Safe, dependable freeze protection for temperature-sensitive cargo.



- 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



Thermo King's reliable heating system . . . providing years of trouble-free service.

Heat King

A powerful, forced air heating unit that works on the same basic principle

as your car's heating system. A 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 also features a belt-driven alternator that automatically recharges the unit's battery while the engine is running.

In addition to the HK-III, the Heat King is available in a high-output unit. The HK-III HO is ideal for longer, thin-walled trailers, or wherever extra capacity is required.

Powerful blower delivers Load-Encircling™ air to the entire cargo area.

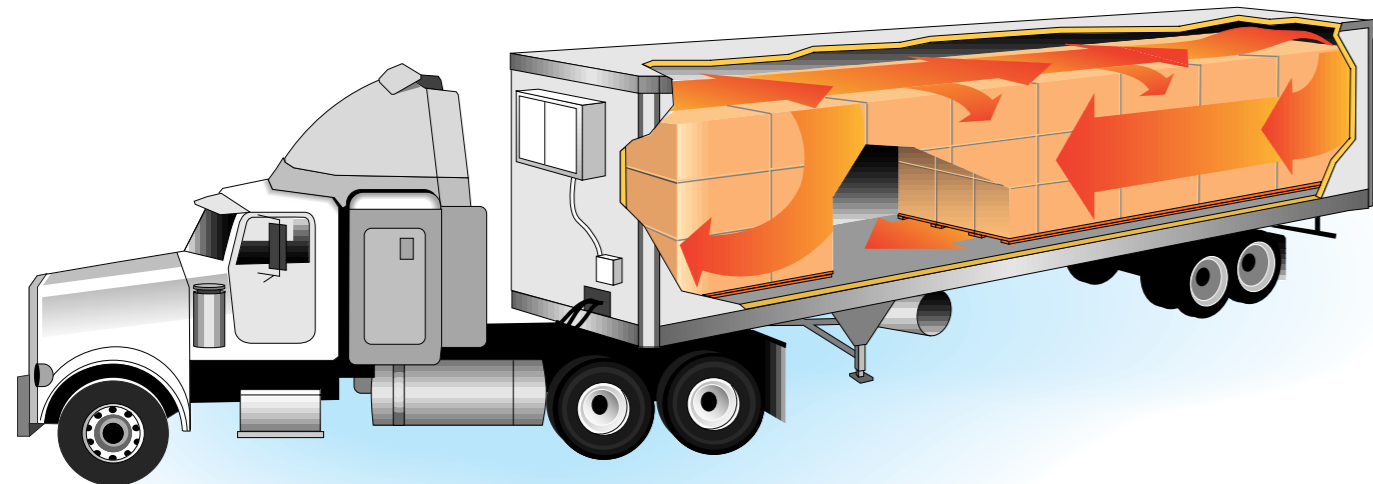
To deliver the heat, the HK-III features a high performance blower delivery system. In the HK-III HO, the blower has been further modified to handle an even greater capacity. The air is delivered to the cargo areas with such force that it is circulated around and through the entire cargo, eliminating any "cold spots."



Maximum heat output with dual speed operation.

When operating on high speed, the HK-III delivers substantial heat output, enough heating capacity to protect your cargo no matter how cold it may get outside. For higher capacity demands, the HK-III HO can produce almost 66% more.

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.



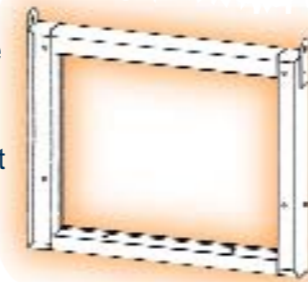
Cycle-Sentry for maximum fuel efficiency.

Thermo King's exclusive Cycle-Sentry™ Start/Stop controls are standard equipment on the Heat King III, 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.

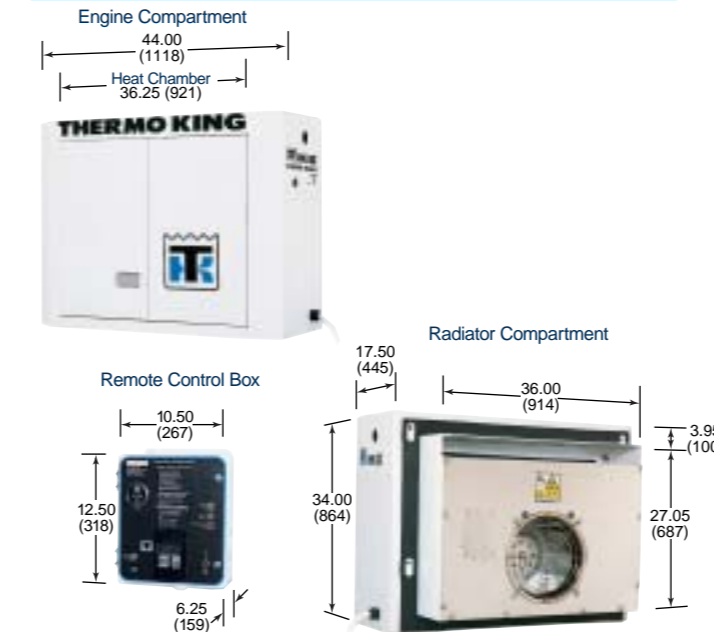


Zero cube option.

To take full advantage of cargo area, a special extension collar is offered as an option. Its sole purpose is to extend the Heat King unit out from the front of the box which, in turn, pulls the radiator out of the trailer box. The result is no cube being taken up by the unit.



DIMENSIONS inches (millimeters)



WEIGHT (approximate)

| | | |
|------------------------------------|---------|----------|
| HK-III | 400 lbs | (182 kg) |
| HK-III HO | 440 lbs | (200 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) |

Warranty Summary

Terms of the Thermo King Express 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 - 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.

Fully automatic solid-state controls.

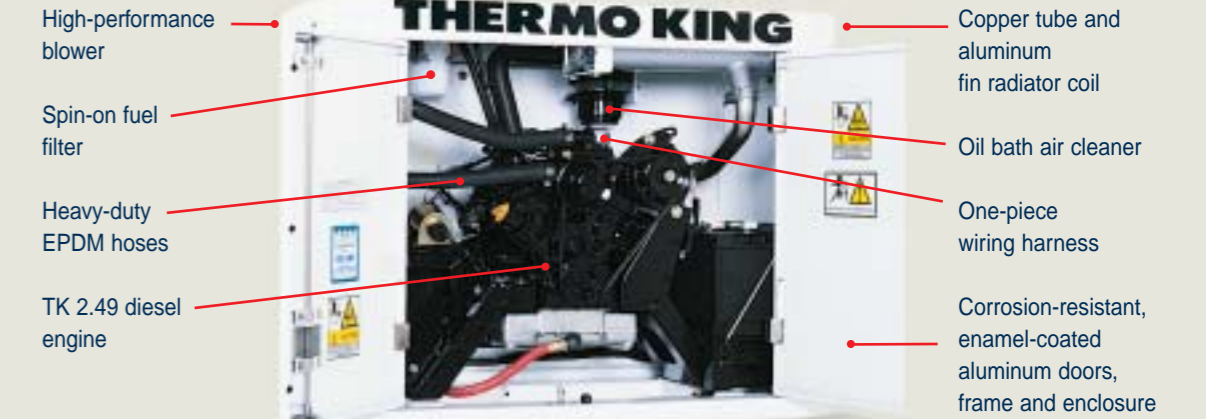
The Heat King is controlled by the advanced Thermoguard V® microprocessor. You can virtually set it and forget it. It's accurate and reliable. The control box mounts low on the trailer/container front wall at eye level, making it easy to read and adjust from ground level.



- Electronic hour meter
- Unit on light
- Unit fail light
- Alternator fail light
- HK-III HO coolant check light
- Thermoguard V® with digital display of box temperature, set point and alarm signal/codes

HK-III

Reliable heat output for cold environments.



CAPACITIES

| | | | | |
|-------------------|--------------------------------------|-----------------------------|-----------|-----------------------------|
| Heating capacity: | High speed | 30,000 Btu/hr (8,790 watts) | Low speed | 10,000 Btu/hr (2,930 watts) |
| Blower delivery: | 3,000 cfm (5,100 M ³ /hr) | | | |

HK-III HO

Extra big capacity for longer, thin-walled trailers.



CAPACITIES

| | | | | |
|-------------------|--------------------------------------|------------------------------|-----------|-----------------------------|
| Heating capacity: | High speed | 50,000 Btu/hr (14,650 watts) | Low speed | 10,000 Btu/hr (2,930 watts) |
| Blower delivery: | 3,800 cfm (6,460 M ³ /hr) | | | |