



Heat King 430 Series

Dependable freeze protection for temperature-sensitive cargo.





Heat King features include:

- Extra capacity available for longer thin-walled trailers
- Powerful airflow circulates throughout entire cargo
- DOT-approved for transport of flammable liquids and gases
- High and low speeds for optimal fuel economy

Keeping your cargo safe

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

Heat King 430 and 430 HO:

Maximum freeze protection day in and day out

The Heat King is the highest capacity dedicated transport heater available in the market today. Heat King delivers maximum uptime, ease of maintenance and long-term reliability with its heavy duty, rugged and simple design. The heart of the unit is a heavy-duty diesel engine which heats coolant that flows to a radiator inside the cargo space, where a high-capacity blower moves the heat throughout, keeping transported products above freezing in the coldest conditions.

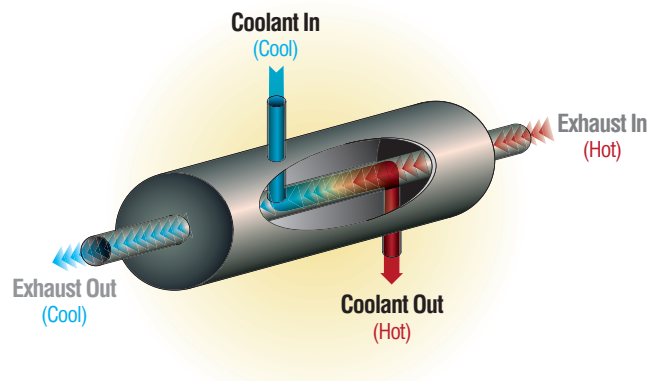
The ThermoGuard VII controller keeps the unit operating efficiently and reliably. It automatically shuts the unit off when setpoint has been reached (with CYCLE-SENTRY™) to achieve maximum fuel economy, and automatically turns it on when it senses heating is required or the battery voltage is low. The TGVII controller also logs alarm codes when faults are detected and is easily reprogrammed through a USB interface.

Heat King 430 High Output (HO)

The Heat King 430 HO utilizes an exhaust heat exchanger that extracts even more heat from the engine, allowing the unit to become 70% efficient in the transfer of energy from diesel fuel to heat. This design produces 33% more heat capacity and transfers heat more efficiently than the closest competitor product.

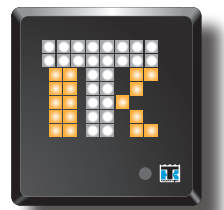
This additional capacity allows operators to use thinner walled trailers (which increases the overall payload capacity) and ensures loads are protected from freezing in the coldest climates.

The HO is the quietest in its class with the standard Whisper low noise package, and coupled with its superior heating performance, it stands out above the rest.



The ThermoGuard VII Controller: More features than ever for the Heat King:

- Integrated CYCLE-SENTRY feature ensures optimal fuel economy and the battery voltage monitor ensures batteries are charged.
- Operational data and alarm codes are automatically logged and can be downloaded via USB
- Flash loadable programming and diagnostics through PC monitor USB interface
- Optional status light
- Compact design for mounting directly to or recessed into the trailer
- Includes on/off switch, hour meter and display
- Alarm codes are easily accessed through TGVII display and PC monitor USB interface



System Performance

Models Available

Heat King 430.....Standard Heating Unit
Heat King 430 HOHigh-Output Heating Unit

Heating Capacity

Heat King 430			
Engine Speed	Btu/hr	Watts	RPM
High	30,000	8,790	2,550
Low	10,000	2,930	1,550

Heat King 430 HO			
High	50,000	14,650	2,950
Low	10,000	2,930	1,550

Instrumentation is per Thermo King heating test protocol
(HeatTesting TKS)

AirFlow

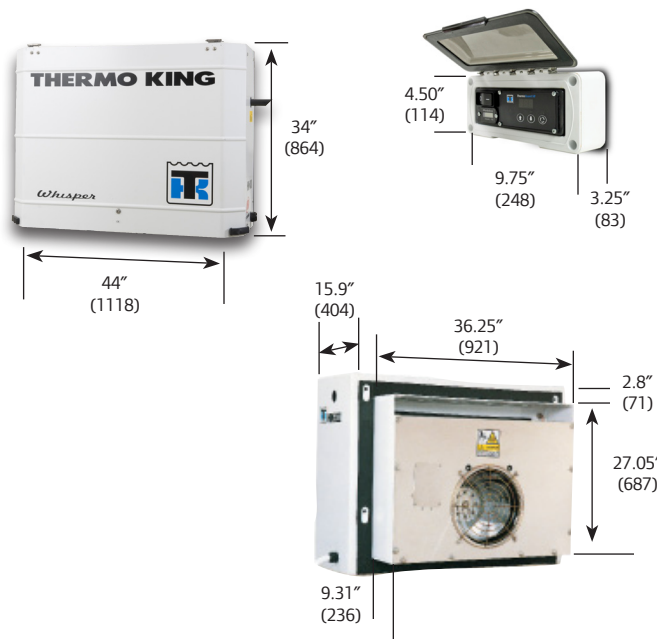
Heat King 430		
Engine Speed	CFM	M³/hr
High	3,000	5,100
Low	1,800	3,060

Heat King 430 HO		
High	3,800	6,460
Low	1,800	3,060

Specifications

Dimensions

Inches (Millimeters)



Operation

Automatic start/stop heating

Standard Features

- TK 2.7 diesel engine
- One-piece unit frame
- Alternator, 37 amp, 12V dc
- Programmable ThermoGuard VII microprocessor controller
- CYCLE-SENTRY™ start/stop, including battery sentry and block temperature-initiated restart
- Heavy duty battery hold-down and tray
- Remote TGVII display
- Centigrade thermometer
- Installation hardware
- Auto engine restart to charge battery and when engine block temperature drops below 30°F
- Threaded battery post cable

Optional Features

- Zero cube unit installation kit
- Silicone coolant hoses
- CE mark
- Low noise package (standard on HO)
- Fuel heater – electric
- Synthetic oil
- Battery cable, clamp post
- Custom paint
- Exhaust extension
- Fuel tanks:
 - 30 gallon (114 liter) undermount aluminum
 - 50 gallon (189 liter) undermount aluminum
 - 110 gallon (416 liter) undermount steel

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-VII microprocessor
- 24 months parts & labor - injection pump, engine and internal parts and radiator coil

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 with battery)

HK 430448 lbs (203 kg)
HK 430 HO.....488 lbs (221 kg)
30 gallon fuel tank with brackets (w/o fuel).....90 lbs (41 kg)
50 gallon fuel tank with brackets (w/o fuel).....100 lbs (45 kg)
110 gallon fuel tank with brackets (w/o fuel)308 lbs (140 kg)



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Hussmann, a manufacturer of refrigeration and food merchandising solutions, Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.

Distributed by: