

HT Module

Hopper Heating Module

Product Specifications

Application . . .

Hopper and Chute Heating

The HT hopper heating module is a rugged, self-contained high performance heater designed for reliable operation on surfaces prone to vibration. Designed to provide heat outputs up to 4650 Watts per square metre depending on the application, the HT module distributes heat evenly over the entire panel surface. To ensure optimal performance, each system is engineered by Thermon based on the heating requirements of the application.

A parallel circuit design, based on a stamped high temperature INCONEL® heating element, provides the HT heating module with multiple flow paths for electrical current to pass. This design eliminates the burnout potential common with series wire-based designs. Protection of the heating element from vibration is achieved with a cushion layer of insulation that also directs the flow of heat from the module to the surface being heated.

The rugged construction of the module includes a tough .9 mm thick aluminized steel shell that provides mechanical protection during handling, installation and operation. Weld splatter, rust or oil will not affect the integrity or performance of the heater. The low profile design of the panel permits rapid, trouble-free installation.

HT hopper heating modules are approved for use in ordinary (nonclassified) and hazardous (classified) areas per U.S. standards.

Ratings¹ . . .

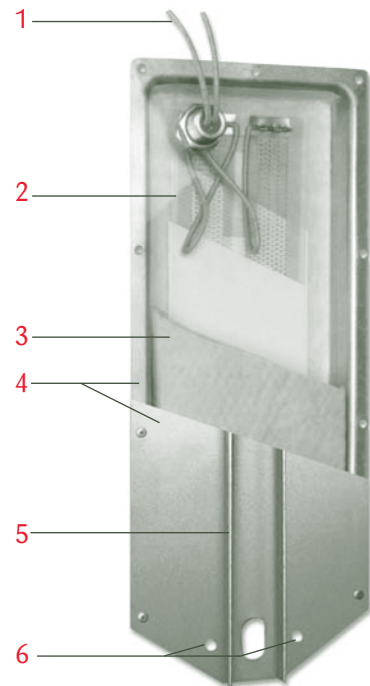
Maximum Watt density	4650 W/m ²
Supply voltages.....	120-600 Vac
Maximum maintenance temperature	427°C
Maximum continuous exposure temperature	
Power-off	538°C
Minimum installation temperature	-40°C

Basic Accessories . . .

Mounting Kit: All HT heating modules include a mounting kit comprised of a reinforced channel, spacers, attachment nuts and washers. Mounting studs, installation templates and other accessories are also available.

Note . . .

1. Watt density and operating voltage are based on application-specific availability and requirements.



Construction . . .

- 1 Fluoropolymer Insulated High Temperature 1.3 mm² Lead Wires (with stress relief at connection)
- 2 Parallel Circuit High Temperature Alloy Heating Element
- 3 Temperature-Rated Insulation (directs energy towards surface to be heated)
- 4 Aluminized Steel Protective Enclosure and Cover (.9 mm thick)
- 5 Aluminized Steel Reinforced Attachment Channel (1.9 mm thick)
- 6 6.3 mm Hole Cut-outs for Optional Earth Connection

Certification/Approval . . .



Factory Mutual Research
Hazardous (Classified) Locations



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Available HT Module Sizes . . .

Product Type ¹ Base Module	Module Dimensions mm	Stud Spacing mm
612	153 x 409	358
624	153 x 701	650
636	153 x 993	942
648	153 x 1285	1234
212	305 x 409	358
224	305 x 701	650
236	305 x 993	942
248	305 x 1285	1234

Circuit Breaker Sizing and Type . . .

Multiple modules can be energised from the same circuit breaker based on operating voltage and current draw. The current draw, breaker sizing and earth-fault protection should be based on applicable local codes.

Note . . .

1. Product types shown are partial descriptions. Delivered product will have prefix and suffix designations to identify complete design parameters; contact Thermon for design assistance.

