

# 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<sup>®</sup> 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 20-gauge 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.

#### Ratings<sup>1</sup> . . .

Maximum Watt density .....	4650 W/m <sup>2</sup>
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. Refer to the back of this specification sheet for details.

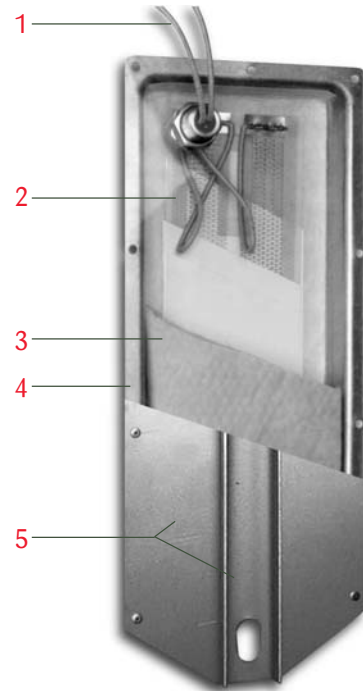
#### Note . . .

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

**THERMON . . . The Heat Tracing Specialists<sup>®</sup>**  
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#### Construction . . .

- 1 Fluoropolymer Insulated High Temperature 1.3 mm<sup>2</sup> 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 20-Gauge Aluminized Steel Protective Enclosure
- 5 20-Gauge Aluminized Steel Protective Cover with Reinforced Attachment Channel

#### Certification/Approval . . .



Factory Mutual Research  
Hazardous (Classified) Locations



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### Available HT Module Sizes . . .

Product Type <sup>1</sup> Base Module	Module Dimensions cm	Stud Spacing cm
612	15 x 40	36
624	15 x 70	65
636	15 x 99	94
648	15 x 129	123
212	30 x 40	36
224	30 x 70	65
236	30 x 99	94
248	30 x 129	123

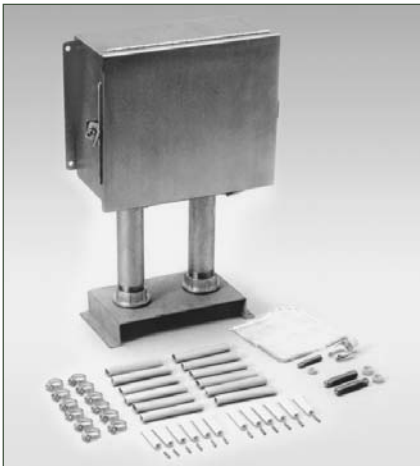
### Circuit Breaker Sizing and Type . . .

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.

### Accessories . . .



**Mounting Studs:** Weld studs with ceramic ferules (2 per heater).

**Lead Wire Routing Guide:** Provides protective routing for heater wiring between heating module and junction box.

**Junction Box:** Enclosure with 600 V terminal strips (optional mounting bracket available).

**High Temperature Splice Kit:** Temperature rated to 538°C, kit permits splicing of heating module lead wires (12 splices per kit).



**Control Thermostats:** Thermon offers a complete line of mechanical thermostats and electronic control and monitoring modules designed and approved specifically for electric heat tracing applications.



**Power Distribution:** For heating applications involving multiple hopper heating circuits or where hopper modules will be used in conjunction with electric pipe heat tracing, Thermon can provide complete power distribution and control panels. These panels can be custom-designed to meet the specific requirements of an application, including enclosure type and control and monitoring capabilities. Contact Thermon for complete information.

