

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 3 watts per square inch (4,650 watts per square meter) 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 20-gauge aluminized steel 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, troublefree installation with the template and mounting kit available from Thermon.

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

Ratings¹ . . .

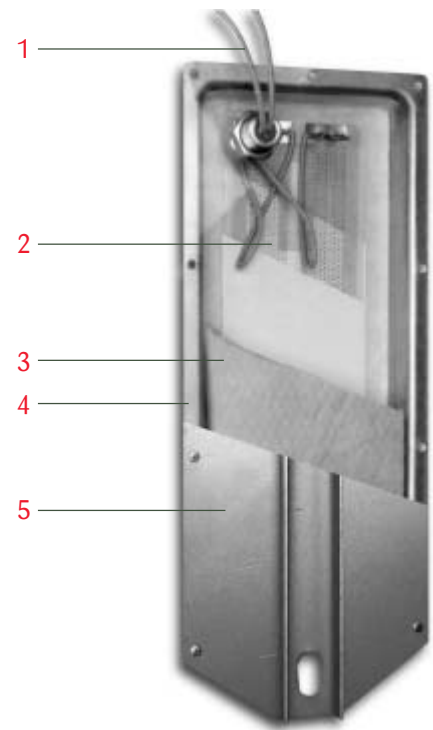
Maximum watt density	3 w/in ² (4,650 w/m ²)
Supply voltages	120-600 Vac
Max. maintenance temperature	800°F (427°C)
Max. continuous exposure temperature	
Power-off	1,000°F (538°C)
Minimum installation temperature	-40°F (-40°C)

Basic Accessories . . .

Mounting Kit: All HT heating modules include a mounting kit comprised of a reinforcing 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.



Construction . . .

- 1 Fluoropolymer Insulated High Temperature 16 AWG 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 Reinforcing Attachment Channel



ISO 9001
REGISTERED



www.heatracing.co.uk
Thorne and Derrick UK
Tel 0044 191 490 1547 Fax 0044 191 477 5371
Tel 0044 117 977 4647 Fax 0044 117 9775582
www.thorneandderrick.co.uk

HT Module

Hopper Heating Module

Product Specifications

Available HT Module Sizes . . .

Catalog Number ¹ Base Module	Module Dimensions in (cm)	Stud Spacing in (cm)
612	6 x 16.1 (15 x 40)	14.1 (36)
624	6 x 27.6 (15 x 70)	25.6 (65)
636	6 x 39.1 (15 x 99)	37.1 (94)
648	6 x 50.6 (15 x 129)	48.6 (123)
212	12 x 16.1 (30 x 40)	14.1 (36)
224	12 x 27.6 (30 x 70)	25.6 (65)
236	12 x 39.1 (30 x 99)	37.1 (94)
248	12 x 50.6 (30 x 129)	48.6 (123)

Note . . .

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

Standard Mounting Equipment . . .

Each HT heating module is shipped with a reinforcing channel, spacers, 1/2" nuts and 1/2" washers. Mounting studs and installation templates are supplied separately to facilitate marking heater and mounting stud locations prior to installation of heaters.

Accessories . . .



Mounting Studs: 1/2" x 2 1/2" weld studs with ceramic ferrules (2 per heater).

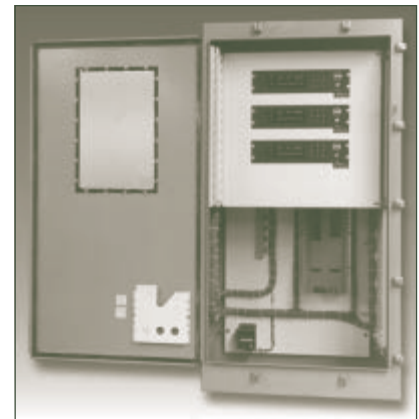
Lead Wire Routing Guide: Provides protective routing for heater wiring between heating module and junction box.

Junction Box: NEMA 4 enclosure with 600 volt terminal strips (optional mounting bracket available).

High Temperature Splice Kit: Temperature rated to 1,000°F (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. For complete details, refer to the Controls and Monitoring section of the Electric Heat Tracing catalog or contact Thermon.



Power Distribution: Thermon can provide complete power distribution and control panels. These HeatChek® panels can be custom designed to meet the specific requirements of an application, including enclosure type, control and monitoring capabilities and specific agency approvals. Contact Thermon for complete information.

Certifications/Approvals . . .



Factory Mutual Research
Ordinary Locations
Hazardous (Classified) Locations
Class II, Division 2, Groups F and G



Canadian Standards Association
Ordinary Locations
Hazardous (Classified) Locations
Class II, Division 2, Groups A, B, C and D

