RT FlexiPanel®

Tank and Vessel Heating Panel

Product Specifications

Application . . .

Metallic Tank and Vessel Heating

The RT FlexiPanel is a self-contained, high performance flexible heating panel designed specifically for use on metallic tanks or vessels. Designed to provide heat outputs at 2 watts per square inch (3,100 watts per square meter) or less, the RT FlexiPanel distributes heat evenly over the entire panel surface.[1] The low profile flexible design of the panel permits rapid, troublefree installation using the mounting kit available from Thermon.

To ensure multiple flow paths for electrical current to pass, the RT FlexiPanel utilizes a parallel circuit design based on a stamped high temperature alloy heating element. This design eliminates the burnout potential common with series wire-based designs. The rugged construction of the RT FlexiPanel includes a tough metal jacket that provides mechanical protection during handling and installation. The panel's heating element is further protected from vibration and moisture by sandwiching it in a heat-laminated layer of silicone rubber that provides cushion and a watertight seal.

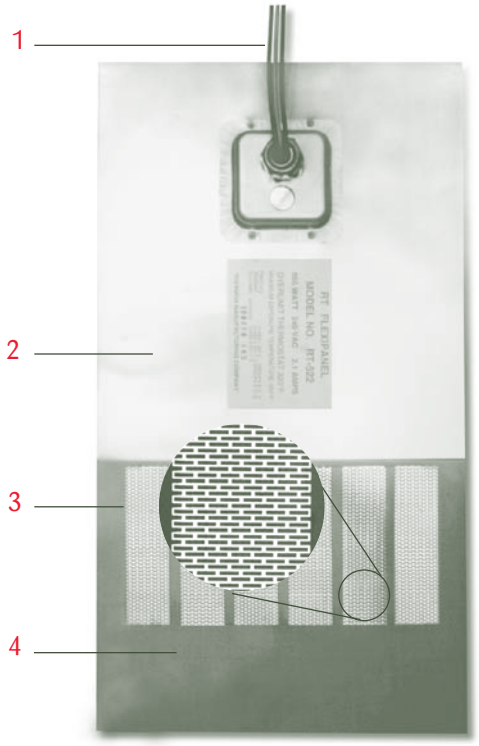
RT FlexiPanels are approved for use in ordinary (nonclassified) and hazardous (classified) areas.

Ratings[2] . . .

Nominal output.....500 and 1,000 watts
Supply voltage .....120 or 240 Vac
Max. maintenance temperature.....250°F (121°C)
Max. continuous exposure temperature
Power-off .....450°F (232°C)
Minimum installation temperature.....-67°F (-55°C)
T-rating[3] ..... T2C to T6

Basic Accessories . . .

Mounting Kit: All FlexiPanels require a mounting kit for installing the panel to a tank or vessel wall. Refer to the back of this specification sheet for details.



Construction[4] . . .

1 High Temperature Lead Wires (16 AWG)
2 Protective Metal Jacket
3 Parallel Circuit High Temperature Alloy Heating Element
4 Heat-Laminated, High Temperature Silicone Rubber Insulation

Notes . . .

1. Caution, Do Not design or operate FlexiPanel heaters with fluid level below the heater or temperature sensor. Consult factory for design assistance for low liquid level applications.
2. Custom sizes, watt densities and operating voltages are available; contact Thermon for design information.
3. T-rating based on stabilized design or use of overlimit control.
4. Contact Thermon for additional options.

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Available RT Panels* . . .

Catalog Number	Service Voltage	Heat Output watts	Current Draw amps	Heat Density w/in² (w/m²)	Panel Dimensions in (mm)
RT-521	120	500	4.2	1.7 (2,635)	12 x 24 (305 x 610)
RT-522	240	500	2.1	1.7 (2,635)	12 x 24 (305 x 610)
RT-1021	120	1,000	8.3	2.0 (3,100)	12 x 42 (305 x 1,067)
RT-1022	240	1,000	4.2	2.0 (3,100)	12 x 42 (305 x 1,067)
RT-2022	240	2,000	8.3	2.0 (3,100)	12 x 84 (305 x 2,134)

Note . . .

* RT FlexiPanels can be custom fabricated to specific voltages, heat outputs and physical dimensions; contact Thermon for design assistance.

Lead Wires and Terminations . . .

Each FlexiPanel is equipped with 6' (1.83 m) long high temperature silicone rubber insulated wires with a 1/2" liquid-tight conduit fitting. Optional SO cords are available; contact Thermon.

Circuit Breaker Sizing and Type . . .

Multiple panels can be energized from the same circuit breaker based on operating voltage and current draw. Breaker sizing should be based on the National Electrical Code, Canadian Electrical Code or any other applicable code.

The National Electrical Code and Canadian Electrical Code require ground-fault protection of equipment for each branch circuit supplying electric heating equipment. Check local codes for ground-fault protection requirements.

Accessories . . .

RTM Mounting Kit: Provides the materials and tools necessary to install RT Flexi-Panels. Kit includes adhesive with applicator, spreader, roller and attachment tape. One kit will facilitate the installation of up to eight square feet of heating panel.

Control Thermostats:[3] 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: For heating applications involving multiple tank or vessel heating circuits or where FlexiPanels will be used in conjunction with electric pipe heat tracing, 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[1] . . .

FM Approved

FM Approvals
Ordinary Locations
Hazardous (Classified) Locations
- Class I, Division 2, Groups B, C and D
- Class II, Divisions 1and 2, Groups E, F and G
- Class III, Divisions 1 and 2

Canadian Standards Association [2]
Ordinary Locations
Hazardous (Classified) Locations
- Class I, Division 2, Groups A, B, C and D
- Class II, Division 2, Groups E, F and G;
- Class III, Division 2

Note . . .

1. Contact Thermon for additional approvals and specific information.
2. An integral thermal cutout switch is required for CSA applications, contact Thermon.
3. A heater controller with alarm annuciation or high limit switch may be required when used in hazardous areas.

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