RTF FlexiPanel™

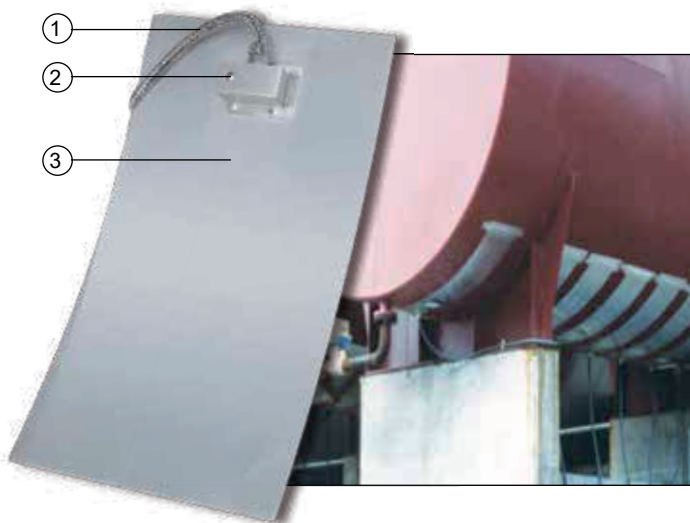## TANK AND VESSEL HEATING PANEL

APPLICATION

The RTF FlexiPanel is a self-contained, high performance flexible heating panel designed specifically for use on fibreglass and plastic tanks or vessels and for metallic tanks or vessels containing high viscosity or temperature-sensitive fluids. Designed to provide heat outputs at 1085 Watts per square metre or less, the RTF FlexiPanel distributes heat evenly over the entire panel surface to maintain stable temperatures. The low profile flexible design of the panel permits rapid, trouble-free installation using the mounting kit available from Thermon.

To ensure multiple flow paths for electrical current to pass, the RTF FlexiPanel utilises 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 RTF 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.

RTF FlexiPanels are approved for use in ordinary (nonclassified) and hazardous (classified) areas per U.S. standards.

RATINGS

Nominal output .... 500 W
Supply voltages ....220-240 Vac
Maximum maintenance temperature ....121°C
Maximum continuous exposure temperature
    Power-off .... 232°C
Minimum installation temperature ....-51°C

CONSTRUCTION

1 High temperature lead wires (1.3 mm^2)
2 Overtemperature safety cutout switch
3 Protective metal jacket
4 Parallel circuit high temperature alloy heating element (not shown)
5 Heat-laminated, high temperature silicone rubber insulation (not shown)

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.

CERTIFICATIONS/APPROVALS

FM Approved   Factory Mutual Research
Hazardous (Classified) Locations

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AVAILABLE RTF PANELS.

Product Type	Service Voltage	Heat Output W	Current Draw A	Heat Density W/m²	Panel Dimensions mm
RTF-2260	240	500	2.1	1084	305 x 1524
RTF-2284	240	500	2.1	775	305 x 2134

LEAD WIRES AND TERMINATIONS
Each FlexiPanel is equipped with 2.4 m long high temperature silicone rubber insulated wires with a liquid-tight conduit fitting. o ther three-wire cords are available; contact Thermon.

CIRCUIT BREAKER SIZING AND TYPE
Multiple panels 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. For information on design and performance on other voltages, contact Thermon.

E arth-fault protection of equipment should be provided for each branch circuit supplying electric heating equipment.

ACCESSORIES

RTM Mounting Kit: Provides the materials and tools necessary to install RT FlexiPanels. Kit includes adhesive with applicator, spreader, roller and attachment tape. o ne kit will facilitate the installation of up to 7500 cm² of heating panel.

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 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 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.