

TECHNICAL DATA SHEET

Hotfoil Silicone Rubber Heaters

HSR / HSRX

Suitable for applications up to 400°F

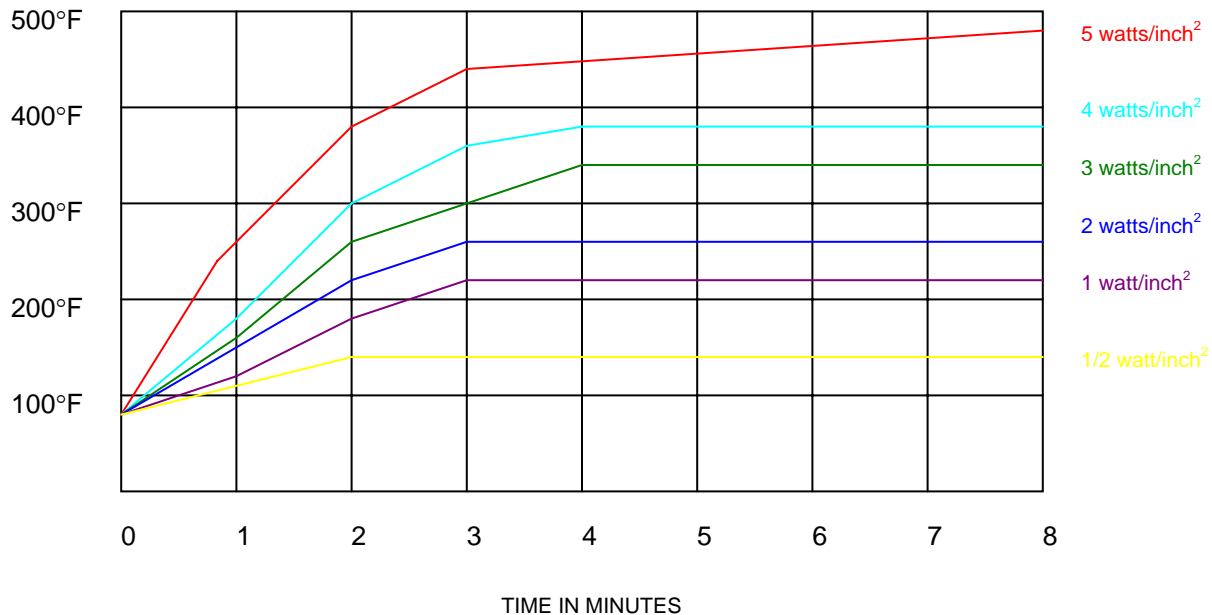
Materials

Two layers of 0.028" thick silicone rubber compound, sheath cured on one side, sheath layers are calendared with high strength fiberglass mesh and vulcanized together under heat and pressure. This bonding sandwiches the resistance heating element between the two layers. The grounding mesh is located on the assembly. A further layer of silicone rubber is applied and vulcanized making a homogenous assembly.

Uses

The heaters are used primarily for tank and vessel heating. Their flexibility both physically and design-wise allows the heaters to be used for a wide variety of applications. Silicone rubber heaters are water-resistant. For outdoor or "wet" applications, the thermal insulation or exterior covering over the heaters should be weatherproofed.

Surface temperature of a silicone heater suspended in still air at 70°F.



The above graph shows the rapid rise in temperature of various watt densities with no heat sink and the heater having no form of control.

All heating systems must be correctly temperature controlled. The controls and all electrical components must be approved for the area as classified. All wiring must follow Federal, State and Local codes and be fully compliant with the NEC as it relates to the project. If in doubt, please contact us.

Ordering Information

The standard Hotfoil silicone rubber heaters are described in the product data literature. To purchase a standard heater, the applicable designated reference can be stated, i.e. –

HSRX-36 is a 36" x 12" heater, 300watts on 120volts, approved for use in both hazardous and non-hazardous areas.

HSR-24 is a 24" x 12" heater that has a loading of 125/250/500watts on 120/240volts fur use only in non-hazardous locations.

For non-standard heaters complete the following –

Build a heater by selecting appropriate code for each feature category. Example: HSR-1506-200-120-6-PSA

HSR

Heater Type

15

Length

06

Width

200

Watts

120

Volts

6

Lead Length

PSA

Mounting

HSR 15 06 200 120 6 PSA

Heater Type

HSR (Non-Hazardous)
HSRX (Hazardous)

Length

15" (or as required)

Width

6" (or as required)

Watts

200 (or as required)

Volts

120 (or as required)

Lead Length

6'-0" (or as required)

Mounting

PSA (Pressure Sensitive Adhesive)
(If none required, leave blank)

For irregular shaped heaters (circular, triangular, etc.) provide a sketch of the required heater, fully dimensioned with the cold lead exit point required.

hotfoil®

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