

PRODUCT DATA SHEET

Hotfoil Silicone Rubber Heaters

HSR - Ordinary Areas

Suitable for applications up to 400°F

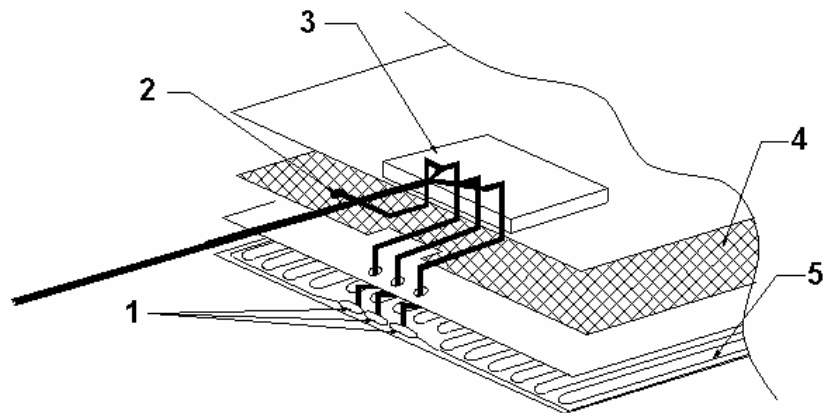
Introduction

Hotfoil Silicone Rubber Heaters are the ultimate choice for a variety of uses. Produced in standard sizes, they offer the user a medium watt density heater with unmatched flexibility.

Conforming to the National Electric Code 427.23, clients are assured of the heater's integrity. The thin profile ensures minimal thermal inertia with quick response time.

Construction Details

- 1) Heater Termination Points (3)
- 2) Grounding Termination Point
- 3) Termination Molding
- 4) Grounding Mesh
- 5) Heater Elements - Dual



Applications

Silicone Rubber insulated heaters are used for heating of tanks, vessels, cones, etc. The heat and pressure cured laminate comprises silicone rubber sheets, fiberglass mesh for unmatched strength and nichrome heating elements.

Construction

Nichrome (80/20 nickel chrome) heating elements have proven themselves for decades as the most stable metal for elements. Exacting compounds of quality metals assure clients of 100% repeatability of specific ohmic values.

Sheets of cured and uncured silicone rubber are heat and pressure laminated together to produce a homogeneous flexible heater. Exacting proportions of rubber ensure an even heater thickness. The sheets are fiberglass cloth reinforced for strength and durability.

A metal mesh is laminated into the heater construction covering its outer surface. This assures compliance with the National Electric Code article 427.23.

Cold leads exit the heater by way of a pre-molded termination block molded onto the heater. The leads are 6'-0" long, flexible, silicone rubber sheathed.

Hotfoil HSR Heaters - Ordinary Areas

Designed for use in non-hazardous areas, these heaters offer physical and design flexibility for the majority of applications. The four standard sizes give the client the option of two supply voltages and three loadings by the integrated circuits.

Product Data

Maximum Exposure Temperature	400°F **
Minimum Installation Temperature	-60°F
Thickness (Average)	0.115"
DC Resistance Tolerance	+/- 10%
Power Density	Up to 1.74w/sq. inch
Color	Brick Red
Leads	6'-0" long, 16AWG, 4 conductor silicone rubber sheathed

** Note the heaters can be supplied with PSA (Pressure Sensitive Adhesive) if required. In these circumstances, the exposure temperature is limited to 230°F to avoid losing the adhesive properties of the PSA.

Standard Sizes

Reference	Size		120V	120V	120V	240V
HSR-18	18" x 12"	Watts	88	175	350	350
		Ohms	164	82	41	164
		Amps	0.7	1.5	2.9	1.5
HSR-24	24" x 12"	Watts	125	250	500	500
		Ohms	116	58	29	116
		Amps	1.4	2.1	4.2	2.1
HSR-36	36" x 12"	Watts	188	375	750	750
		Ohms	77	38	19	77
		Amps	1.6	3.1	6.3	3.1
HSR-48	48" x 12"	Watts	250	500	1000	1000
		Ohms	58	29	14	58
		Amps	2.1	4.2	8.3	4.2

Unique Design

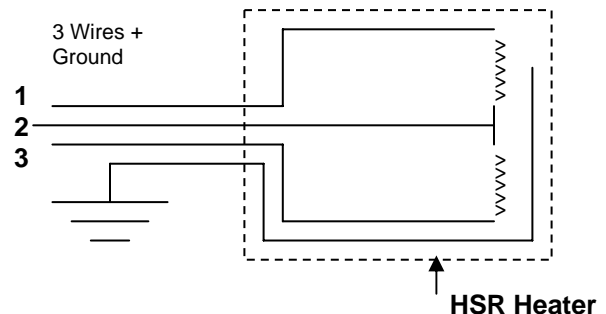
HSR Heaters are dual circuit/dual voltage/triple load. Each heater has two heating circuits, each independent of the other.

Example HSR-24

Connection between Wires

1 - 2	250w	120v
2 - 3	250w	120v
1 - 3	500w	240v
1 - 3	125w	120v
1/3 - 2	500w	120v

3 Powers on 2 Voltages



* Other sizes, shapes, loadings and watt densities are available on request, plus single element heaters.



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