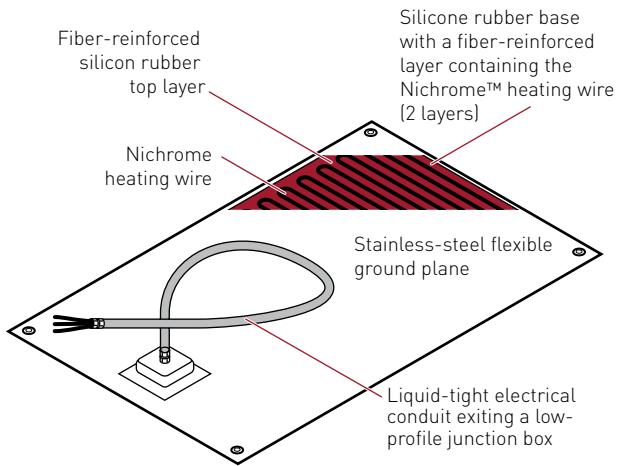


# Raychem RHS

## TANK HEATING PADS



### PRODUCT OVERVIEW

Raychem brand tank heating pads (RHS) are designed for applications ranging from freeze protection to process-temperature maintenance of tanks.

Pentair Industrial Heat Tracing Solutions offers RHS tank heating pads with two power densities, making them ideal for metal tanks (lined and unlined) and plastic tanks.

FM Approvals and CSA International (CSA) have approved RHS tank heating pads for use in both nonhazardous and hazardous locations.

Compared to self-regulating heating cables, they offer a cost-effective solution in applications where even heat distribution is not required. They are not recommended for highly temperature-sensitive fluids.

RHS-L may be used on tank walls capable of a maintain temperature up to 120°F (49°C), and RHS-H may be used on tanks with walls capable of up to 200°F (93°C).

RHS is offered with two power densities, 1.9 W/in<sup>2</sup> and 0.6 W/in<sup>2</sup>.

Durable components make RHS tank heating pads:

- Easy to design and install
- Approved for use in nonhazardous and hazardous locations
- Highly reliable in the rugged environments of industrial plants

### DESCRIPTION

	RHS-H	RHS-L
	Flexible tank heating pad for unlined metal tanks	Flexible tank heating pad for metal and plastic tanks (lined and unlined)

### KIT CONTENTS

	One heating pad (1.9 W/in <sup>2</sup> ) with stainless-steel junction box and flexible conduit	One heating pad (0.6 W/in <sup>2</sup> ) with stainless-steel junction box and flexible conduit
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## APPROVALS

### Hazardous Locations



Class I, Div. 2, Groups B, C, D  
 Class II<sup>(1)</sup>, Div. 1 and 2, Groups E, F, G  
 Class III<sup>(1)</sup>

<sup>(1)</sup> Applications must be reviewed by Pentair.

## PRODUCT SPECIFICATIONS (NOMINAL)

### RHS-H

Catalog number	Overall dimensions	Voltage (Vac)	Power output (W)	Current draw (A)
RHS-H-500-1	14" x 24" (356 mm x 610 mm)	120	500	4.2
RHS-H-1000-1	24" x 26" (610 mm x 660 mm)	120	1000	8.3
RHS-H-1400-1	24" x 36" (610 mm x 914 mm)	120	1400	11.7
RHS-H-500-2	14" x 24" (356 mm x 610 mm)	240	500	2.1
RHS-H-1000-2	24" x 26" (610 mm x 660 mm)	240	1000	4.2
RHS-H-1400-2	24" x 36" (610 mm x 914 mm)	240	1400	5.8

### RHS-L

Catalog number	Overall dimensions	Voltage (Vac)	Power output (W)	Current draw (A)
RHS-L-150-1	14" x 24" (356 mm x 610 mm)	120	150	1.3
RHS-L-300-1	24" x 26" (610 mm x 660 mm)	120	300	2.5
RHS-L-420-1	24" x 36" (610 mm x 914 mm)	120	420	3.5
RHS-L-150-2	14" x 24" (356 mm x 610 mm)	240	150	0.6
RHS-L-300-2	24" x 26" (610 mm x 660 mm)	240	300	1.3
RHS-L-420-2	24" x 36" (610 mm x 914 mm)	240	420	1.8

Model	RHS-H		RHS-L	
	RHS-H-1	RHS-H-2	RHS-L-1	RHS-L-2
Nominal voltage (Vac)	120	240	120	240
Voltage range (Vac)	100-130	200-277	100-130	200-277
Power adjustment factor		208 Vac = 0.75 277 Vac = 1.33		
Watt density	1.9 W / in <sup>2</sup>		0.6 W / in <sup>2</sup>	
T-rating	T2C: 446°F (230°C)		T4A: 248°F (120°C)	
Maximum maintain temperature (power on)	200°F (93°C)		120°F (49°C)	
Maximum exposure temperature (power off)	366°F (186°C)		366°F (186°C)	
Minimum usage temperature	-40°F (-40°C)		-40°F (-40°C)	
Conduit length	4 ft (1.2 m)		4 ft (1.2 m)	
Application (See Design guide Doc# H56887 for limitations)	For use on metal tanks only		For use on metal, polypropylene, and fiber-reinforced plastic tanks	

**MATERIALS OF CONSTRUCTION**

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Flexible grounding plane	Stainless steel
Rubber sheet	Vulcanized silicone rubber
Heating elements	Metal, embedded in glass-reinforced silicone rubber
Conduit material	Stainless steel

**ADDITIONAL MATERIALS REQUIRED**

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RHS-INSTALLATION-KIT (P/N 844869-001)	The RHS installation kit contains a caulking gun, two RTV adhesive tubes, a wedge, one 30-foot roll of AT-180 aluminum tape, and a trowel for mounting up to two RHS tank heating pads. The kit is FM Approved and CSA Certified for use with RHS tank heating pads.
Temperature control device	Thermostat or other control system must be used.



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