

# Wire-wound Rubber Heaters



## Overview

These silicone rubber heaters have a wire-wound element and are economical in large sizes.

- Mean time between failure (MTBF) of 100,000 hours+ provides longer heater life under continuous operation
- Rugged construction and high ductility allows repeated flexing for easier installation
- Element wires sealed inside silicone rubber protects electrical connections from moisture preventing costly downtime for field repairs
- Uniform heating to 220°C (428°F)
- Heater lengths to 90" (1.8 m)
- Mount to flat or curved surfaces
- TÜV and UL component recognition marking are standard
- 2.5, 5, 10, 15 watts/in<sup>2</sup> (0.39, 0.78, 1.55, 2.33 watts/cm<sup>2</sup>) at 120 or 240 VAC
- Lower leakage current due to capacitive coupling

## Typical applications

- Prevent condensation in motors and generators
- Protect instrument cabinets from cold and humidity
- De-icing
- Control fluid viscosity in valves and vessels
- Industrial ovens and thermal processing equipment
- Platens
- Medical devices

## Custom options

- Custom shapes and sizes to 22" × 90" (560 × 2285 mm)
- Custom resistance to 200 Ω/in<sup>2</sup> (31 Ω/cm<sup>2</sup>)
- Integral thermostats
- RoHS compliance
- Contact Access: Minco Sales and Support for custom design assistance

## Specifications

**Temperature range:** -45 to 235°C (-50 to 455°F).  
With UL component recognition: -45 to 220°C (-50 to 428°F).

**Thickness:** 0.055" ±0.005" (1.4 ±0.13 mm).  
0.250" (6.4 mm) maximum over leadwires.

**Maximum voltage rating:** UL rating is 600 VAC, TÜV recognition up to 250 VAC.

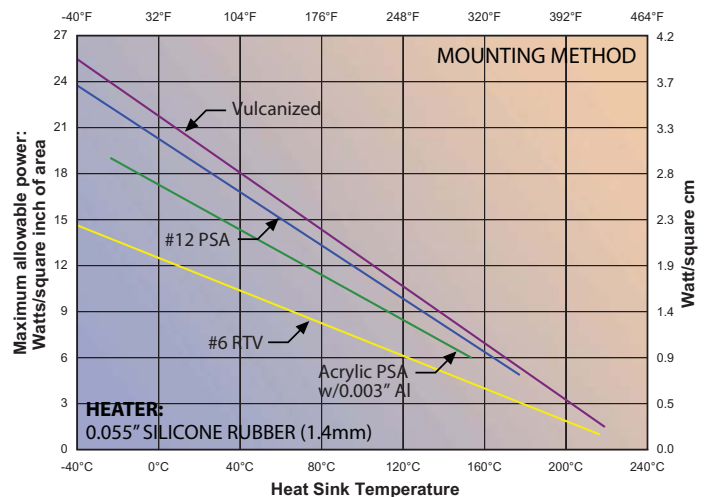
**Leadwires:** AWG 20 except where noted, PTFE insulated per UL 1199/CSA. Length on standard models is 12" (305 mm).

**Current capacity (based on 100°C max. ambient temp.):**  
AWG 20 - 13.5 A  
AWG 18 - 16.0 A

**Approvals:** All wire-wound models comply with UL Standard 499 and Canadian Standard C22.2, No. 72-M1984 and European Standard EN60335 and may bear the corresponding recognition marks.

**Wattage tolerance:** ±5%.

## Wire-wound Rubber Heaters Maximum Watt Density



Example: At 100°C, the maximum power of a heater mounted with #6 RTV is 7 W/in<sup>2</sup> (1.09 W/cm<sup>2</sup>).

Specifications subject to change