

Silicone Rubber Enclosure Heater

Safe and Reliable Heating Units are Ideal for Harsh Applications

Designed for freeze and condensation protection, enclosure heaters from Watlow® are rugged, reliable and safe to operate. These rectangular-shaped, wire-wound silicone rubber heaters can be ordered separately with adhesive or vulcanized to an aluminum mounting plate. A thermostat can be attached to the heater or mounted separately as shown.

Features and Benefits

Pressure sensitive adhesive, mounting to aluminum plate or customer cementing

- Reduces installation time
- Creates easy installation

Several standard thermostat set points

- Ensures protection against freezing with minimal energy consumption

Variety of installation options

- Provides the customer the option to utilize cement installation ensuring permanent attachment of the heater
- Saves assembly time choosing the pressure sensitive adhesive installation option
- Facilitates assembly and disassembly with factory installed aluminum plate mount

Remote thermostat option

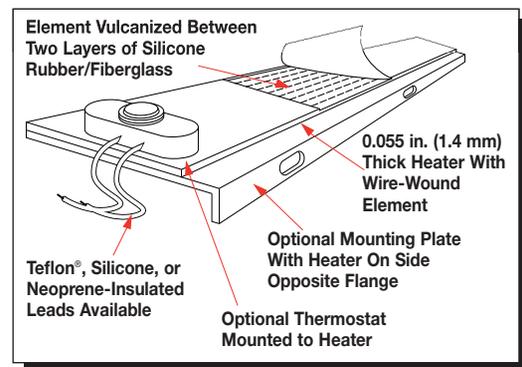
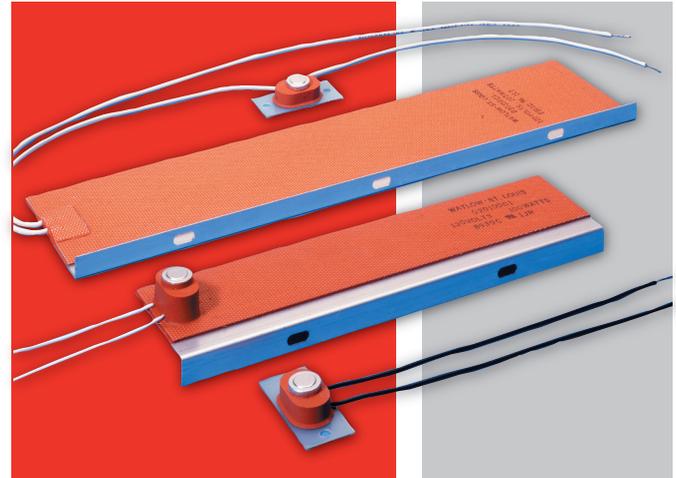
- Offers optimal choice of heater location versus temperature control location

Lead options

- Allows use across a variety of applications
- Allows for different lead lengths for a variety of wiring requirements

Factory pre-wired heater and thermostat

- Ensures safety and reliability due to unexposed electrical connections



Performance Capabilities

- Watt density rating of 5 W/in² (0.8 W/cm²)
- Temperature to 150°F (66°C)

Typical Applications

Freeze or condensation prevention in housings containing electronic equipment. Examples include:

- Traffic signal boxes
- Automated teller machines
- Temperature control panels
- Gas or liquid control valve housings

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Better Thermal Solutions...*Faster*

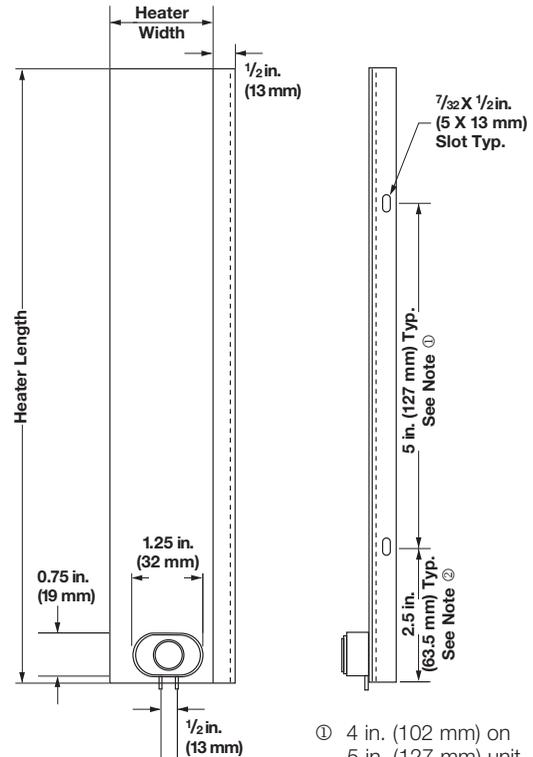
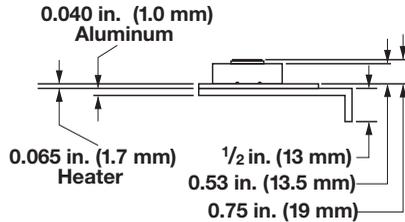
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Options

Aluminum Mounting Plate

Enclosure heaters can be mounted vertically or horizontally. The mounting plates are 0.040 in. (1.02 mm) thick, specified as #3003 H14 aluminum. Vertical orientation is preferred with the thermostat attached at the lower end (as shown).

A remote thermostat is recommended for horizontal mounting. An enclosure heater can be ordered separately with PSAS or vulcanized to an aluminum mounting plate. See Thermostat section below for additional information.



- ① 4 in. (102 mm) on 5 in. (127 mm) unit.
 ② 0.5 in. (13 mm) on 5 in. (127 mm) unit.

Thermostats

Mounted on Heater

Built-in snap action thermostats from Watlow are designed to sense air temperature.

Remote From Heater

The ST-207E is an ideal thermostat that is separate from the heater. This is a modified ST-207 mounted on a 1/2 in. (0.8 mm) thick G-10 circuit board with the thermostat's metal cap exposed to sense air temperature. The thermostat is placed at the midpoint of the lead length. The sensor can be preset at the temperatures listed for integral sensors.

Notes:

- On both integral and remote sensors, if the thermostat's exposed metal cap is impacted, it could defeat the thermostat's switching action and cause the heater to malfunction.
- T-10 thermostats are not recommended for enclosure heating applications.

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