

375 High-Temperature Strip Heaters

Rugged Heater Capable of High Temperatures and High Watt Densities

Named for its 0.375 in. (9.5 mm) thickness, the rugged Watlow[®] 375 strip heater is capable of both high temperatures and high watt densities.

Watlow begins construction by accurately placing a coiled, nickel-chromium element wire in the center of the heater. The element wire is then embedded in magnesium oxide (MgO)-based insulation compacted into a solid mass creating excellent heat conductivity and high dielectric strength. The heater is then enclosed in aluminized steel or 430 stainless steel sheathing.

Performance Capabilities

- Aluminized steel sheath temperatures up to 1100°F (595°C)
- 430 stainless steel sheath temperatures up to 1200°F (650°C)
- Watt densities up to 100 W/in² (15.5 W/cm²)
- UL[®] approved up to 240VAC (File No. E52951)
- CSA approved up to 600VAC (File No. LR7392)

Features and Benefits

Nickel-chromium element wire is centered in the heater

Assures uniform heat

Aluminized steel sheath

- Operates at higher temperatures and resists corrosion better than iron-sheathed heaters
- · Minimizes heat-up time

Optional 430 stainless steel sheath

 Meets temperature requirements that reach up to 1200°F (650°C)

Post terminals, welded to the element wire

Produces strong, trouble-free connections

Rigid ³/₈ in. (9.5 mm) thick design

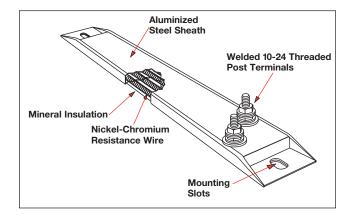
- · Enables the heater to fit into many existing applications
- Over 100 in-stock models in popular sizes and ratings
- Allows next day shipment

Available dimensions are $1^{1/2}$ in. (38 mm) wide and

$5^{1}\!/_{2}$ to 48 in. (140 to 1219 mm) long

Fits a variety of application needs





Typical Applications

- Food warming
- Freeze and moisture protection
- · Tank and platen heating
- Packaging
- Dies and mold heating
- Autoclaves
- Ovens
- Telecom



🚸 WATLOW.

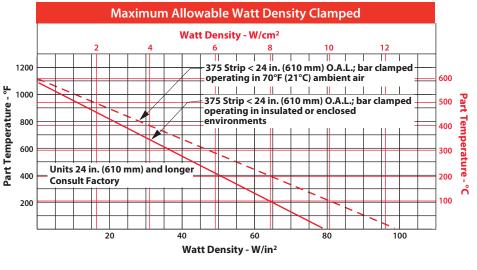
Specifications

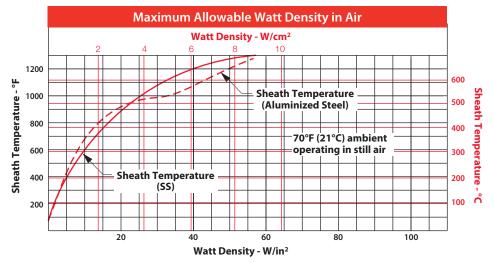
Calculating Watt Density

Use the *Maximum Allowable Watt Density* graphs and formulas to ensure the allowable watt density for the heater does not exceed the specific application requirements. **Watt density is calculated for one side of the heater only.**

Formulas

Watt Density =	Wattage
	Heated Area
Heated Area	
(Offset Terminals	$= [Overall Length (A) \times 1.5 in.] - 6 in^{2}$
	= [Overall Length (A) x 38 mm] - 38.7 cm ²
Heated Area	
(Parallel Terminals) = [Overall Length (A) x 1.5 in.] - 4.7 in ²	
	= [Overall Length (A) x 38 mm] - 30.3 cm^2
Heated Area	
(One-on-One Terminals) = [Overall Length (A) x 1.5 in.] - 6 in ²	
	= [Overall Length (A) x 38 mm] - 38.7 cm^2

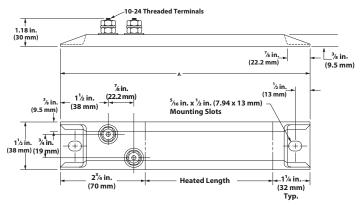






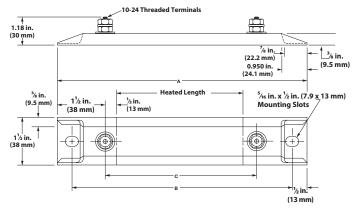
Termination Options

Offset Terminals



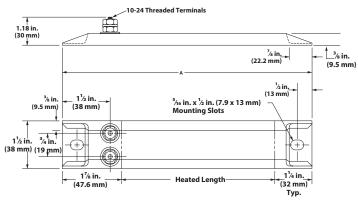
Two 10-24 threaded post terminals are offset from each other on the same end.

One-on-One Terminals



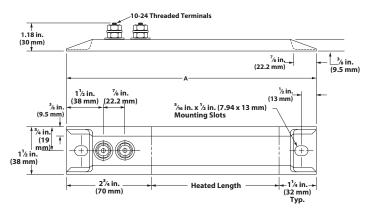
Two 10-24 threaded post terminals are placed one on each end.

Parallel Terminals



Two 10-24 threaded post terminals are used; both terminals on one end.

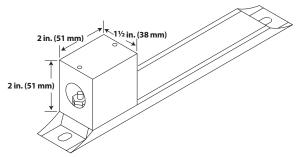
In-Line Terminals



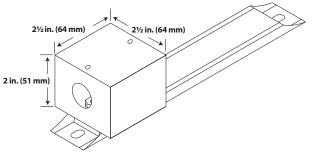
Two 10-24 threaded post terminals are in-line with each other on the same end.

Termination Options (Con't)

Metallic Terminal Boxes - Variations



Available on in-line terminals only.

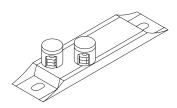


Available on offset terminals from stock and manufactured.

Metallic terminal boxes are available from stock on offset terminals. Terminal boxes act as a safety feature by covering the terminals. A conduit may be attached to the box through ⁷/₈ in. (22.2 mm) diameter holes in the ends of the box. To order, specify **terminal box.**

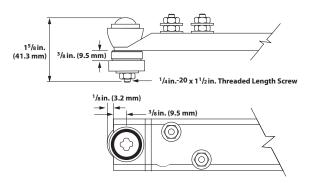
Accessories

Ceramic Terminal Covers



Ceramic terminal covers offer a convenient and economic method to insulate post terminals. They are sized for standard length posts with 10-24 screw thread size, supplied as an accessory item and shipped separately. Specify **Z-4918** and quantity.

Secondary Insulation Bushings



Insulators are suitable when air heating and/or voltage to ground is a concern. A secondary insulation bushing kit, part number **Z5230**, contains one set of bushings for one heater. To accommodate bushings,¹⁷/₃₂ x ¹¹/₁₆ inch diameter mounting holes **must** be specified when ordering the heater.

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Powered by Possibility

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