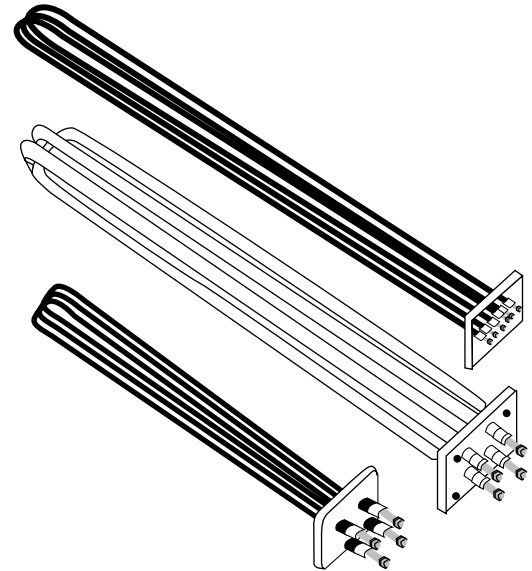


S Q U A R E F L A N G E I M M E R S I O N H E A T E R S

Energy Efficient Solution For Heating Water, Oils and Degreasing Solutions



Designed for use in boilers and industrial storage tanks, square flange immersion heaters offer an energy efficient solution to heating water, oils and degreasing solutions.

Consisting of WATROD or FIREBAR® elements brazed or welded to a four- or six-bolt flange, these heaters mount directly to a mating flange that is welded to a tank wall or nozzle.

Installation and maintenance are easy. Heater change-out is also simple... unbolt the flange and replace it with another... without extensive equipment downtime.

Performance Capabilities

- Watt densities to 100 W/in² (15.5 W/cm²)
- Wattages to 24 kW
- Voltages to 480VAC
- Incoloy® sheath temperatures to 1600°F (870°C)

Features

- 2½, 3½ and 4½ inch square flanges
- Asbestos-free gaskets
- Epoxy or silicone resin seals rated to 250°F (120°C) or 390°F (200°C) respectively
- WATROD hairpins are repressed (recompacted)
- UL® and CSA component recognition under files #E52951 and 31388 respectively

Benefits

- Multiple sizes to adapt to application needs
- Provide good seal between flanges
- Protect elements against moisture and other contaminants
- Maintains MgO density, dielectric strength, heat transfer and life
- Designed for safety

Incoloy® is a registered trademark of the Inco family of companies.
UL® is a registered trademark of Underwriters Laboratories, Inc.



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Flange Materials:

WATROD	Steel 304 stainless steel
FIREBAR	Steel Brass

Applications

- Water
- Boiler equipment
- Vapor degreasers
- Fuel oils
- Heat transfer fluids
- Caustic solutions

Available on request:

- Sheath materials in copper, steel, 304 and 316 stainless steel and titanium
- Flange materials in titanium and 316 stainless steel
- Flange sizes to meet specific application needs
- External finishes such as passivation, belt polishing and glass beading
- Other voltage and wattage ratings

Ordering Information

How to Order

To order a stock unit, please specify:

- Watlow code number (from Watlow Heater's Catalog)
- Flange size and material
- Volts / watts
- Phase
- Quantity

If our stock units do not meet your application needs, Watlow can provide a Made-to-Order unit. For

Made-to-Order units, please specify:

- Application
- Volts / watts
- Phase
- Flange size, dimensions and material
- Sheath material and diameter
- Number of elements
- No-heat section below the flange
- Immersed ('B' dimension) length
- Maximum bundle diameter or clearance hole size
- Bolt pattern, if not standard
- Options
- Quantity

Availability

Stock: Same day shipment

Assembly Stock: 5-7 working days

Modified Stock^①: 5-7 working days

Standard: 3 weeks

Made-to-Order: 4-6 weeks

^① Options, complexity and quantity may affect availability and leadtimes. Consult factory.