

# FLANGED IMMERSION HEATERS FOR BOILERS AND WATER HEATERS



## TTSF SERIES



Type TTSF heaters are used in industrial water boilers and storage tanks. They feature high watt density for rapid heat transfer. The steam boiler heaters feature the highest quality, high nickel Incoloy sheath that provides the highest practical protection available against hard water containing minerals, scale and salts while resisting stress, corrosion, cracking, and sulphur attack. The water heater has

a copper sheath and copper face plate. These heaters are not supplied with enclosures since they are normally mounted in boilers or tanks which have a surrounding enclosure for terminal protection.

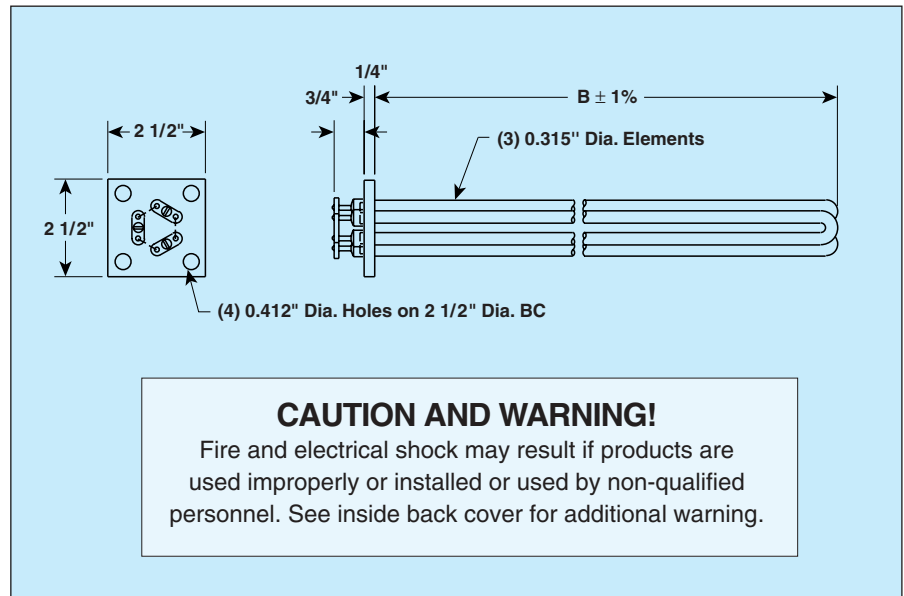
### SPECIFICATIONS

**Wattage:** 5 to 18 kW

**Power:** 208 and 240 or 480VAC, 3 Phase

**Watt Density:** 79-184 W/in<sup>2</sup>

**Sheath:** 0.315" dia. Incoloy (steam boiler heater) or copper (water heater).



- ✓ In Stock
- ✓ 2½ Inch (6 cm) Square Steel Flange
- ✓ Premium Quality
- ✓ Rugged Construction
- ✓ U.L. Component Recognized

### MOST POPULAR ITEMS HIGHLIGHTED

#### To Order (Specify Model Number)

kW	Volts	Circ.	Phase	W/in. <sup>2</sup>	Dim. B in.(cm)	Model No.	Price	Wt. lb (kg)
<b>Steam Boiler Heater Specifications—Incoloy Sheath</b>								
5	208	1	3	94	12 (30)	TTSF-009	\$282	2 (.9)
5	240	1	3	94	12 (30)	TTSF-010	282	2 (.9)
10	208	1	3	79	24 <sup>7</sup> / <sub>16</sub> (61)	TTSF-005	319	3 (1)
10	240	1	3	79	24 <sup>7</sup> / <sub>16</sub> (61)	TTSF-006	319	3 (1)
10	480	1	3	79	24 <sup>7</sup> / <sub>16</sub> (61)	TTSF-007	319	3 (1)
15	208	1	3	82	34 (84)	TTSF-002	357	4 (2)
15	240	1	3	82	34 (84)	TTSF-003	357	4 (2)
15	480	1	3	82	34 (84)	TTSF-001	357	4 (2)
<b>Water Heater Specifications—Copper Sheath/Copper Face Plate</b>								
13.5	208	1	3	184	13 <sup>7</sup> / <sub>16</sub> (34)	TTSF-3135	255	2 (.9)
13.5	480	1	3	184	13 <sup>7</sup> / <sub>16</sub> (34)	TTSF-3135	255	2 (.9)
15	480	1	3	153	17 <sup>7</sup> / <sub>16</sub> (44)	TTSF-3150	303	3 (1)
18	480	1	3	153	21 <sup>1</sup> / <sub>16</sub> (53)	TTSF-3180	324	4 (2)

# omega.co.uk<sup>®</sup>

Your One-Stop Source for Process Measurement and Control!

Freephone 0800 488 488 | International +44(0) 161 777 6622 | Fax +44(0) 161 777 6622 | Sales@omega.co.uk

[www.omega.co.uk](http://www.omega.co.uk)



#### UNITED STATES

[www.omega.com](http://www.omega.com)

1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)

Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)

Deckenfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)

Manchester, England  
0800-488-488  
+44-(0)161-777-6611

#### FRANCE

[www.omega.fr](http://www.omega.fr)

0800-466-342

#### BENELUX

[www.omega.nl](http://www.omega.nl)

0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders, Relative Humidity Measurement Instruments, PT100 Probes, PT100 Elements, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples, Thermowells and Head and Well Assemblies, Transmitters, Thermocouple Wire, RTD Probes

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters