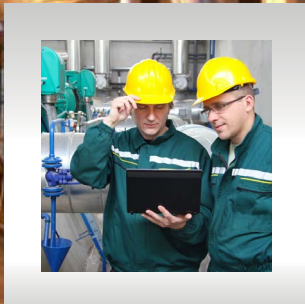
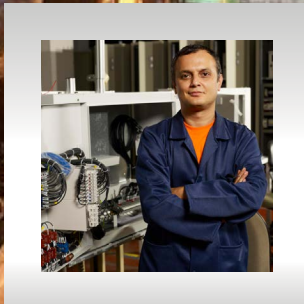
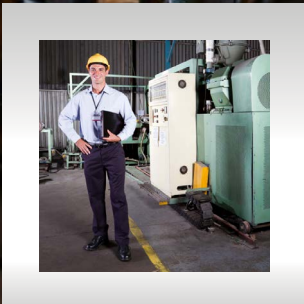
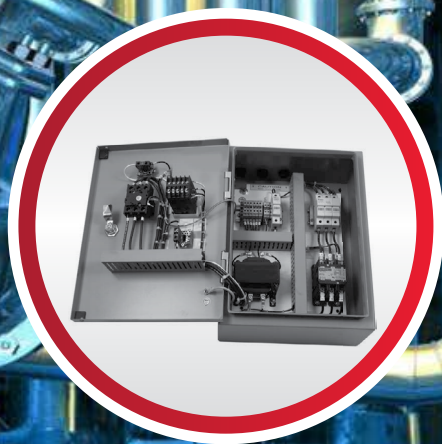
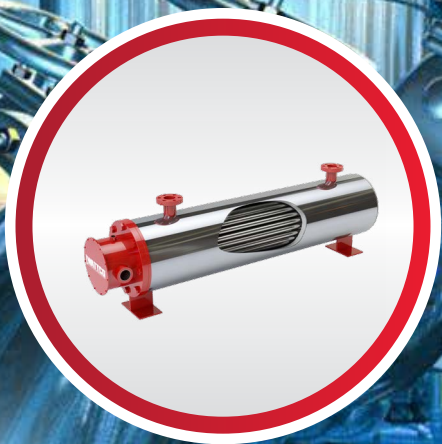
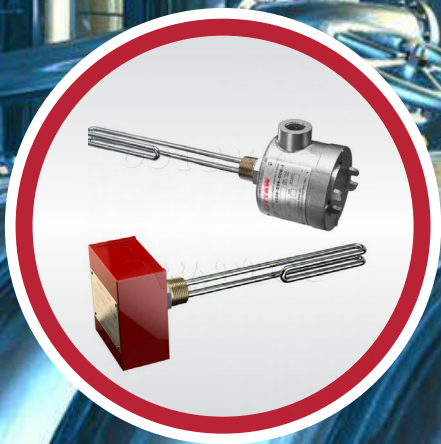
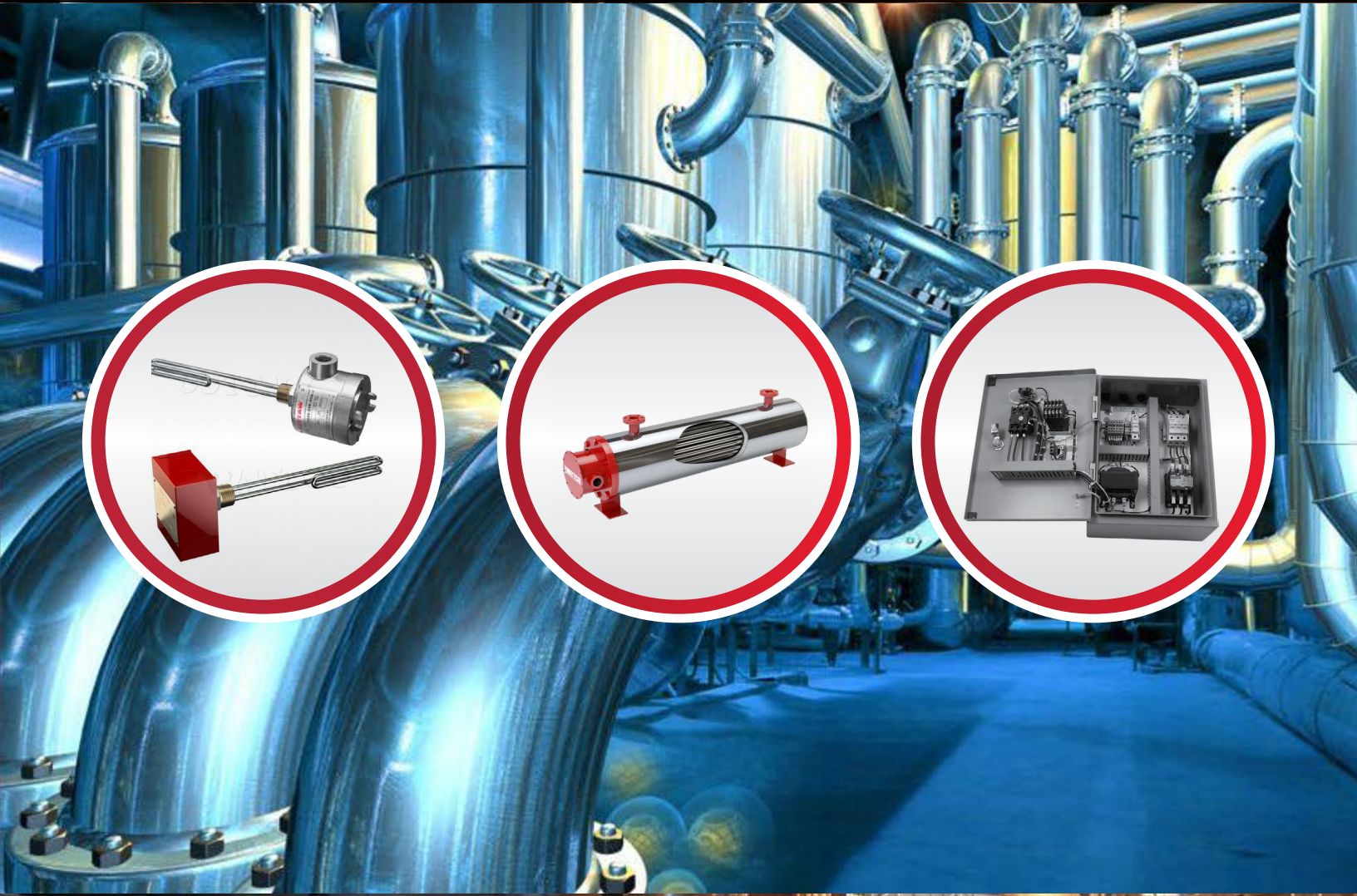


WATTCO™



Over *40 years* experience manufacturing
Specialized *Electric Heating Elements*



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IMMERSION HEATERS

(MFLC, MFLI, MFLO)

CIRCULATION HEATERS

OVERVIEW

Circulation heaters from WATTCO™ are the perfect solution for generating heat and further enhancing immersion heaters performance. Circulation heaters are composed of all in one units with a heater mounted inside an insulated tank. Circulation heaters have inlet and outlet piping where the liquid or gas goes through the tank in order to reach the desired temperature.

KEY FEATURES

- Standard sizes: 1.25" NPT screwplug size to 18" diameter
- Steel or Stainless vessels fitted with 150 lbs / 300 lbs / 600 lbs / 900 lbs flanges
- Thermal insulated vessels
- Custom unit sizes: up to 46" nominal pipe size
- Custom-designed to meet your specifications
- Special sizes, wattages, and materials are available upon request
- Units are available with larger vessels and heavier flanges
- Can be supplied with stainless steel parts and special design terminal boxes for heat protection and use in high temperature conditions
- Insulated upon request
- ASME / CRN certification available.



IMMERSION HEATERS

(FL, WH, SXQ)

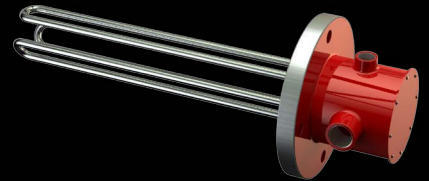
FLANGE HEATERS

OVERVIEW

Flange heaters from WATTCO™ are primarily made using hairpin or bugle bent tubular elements made from copper, steel, stainless, incoloy® inconel®, or titanium sheathed elements that are welded or silver-brazed into a pipe or steel flange. Flange heaters are designed to be mounted in tanks and pressurized vessels, WATTCO™ flange heaters are used for heating liquid mediums or other specific types of liquids [water, oil, heat transfer fluid, and corrosive solutions], and for heating gases (steam, vapors etc).

KEY FEATURES

- Standard flange heaters: ½" to 44" sizes.
- 0.260", 0.315", 0.375", 0.430" or 0.475", 0.625" diameter
- 150lb or 300lb forged steel flange
- Steel, Incoloy®, Inconel®, stainless steel, copper or titanium elements
- Available explosion and/or moisture resistant terminal enclosures upon request
- Available special sizes, wattages, and materials upon request.
- Heating units are custom-designed to meet your specifications.
- UL, CSA & CSA US approved



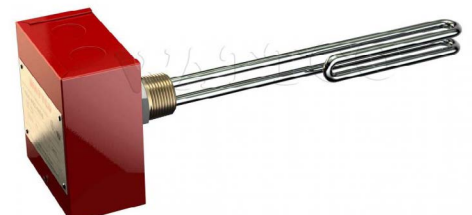
SCREWPLUG HEATERS

OVERVIEW

Screwplug heaters from WATTCO™ are comprised of hairpin tubular elements that are brazed or welded into a machined pipe thread fitting, which are then screwed directly through a threaded coupling in the tank wall or vessel, or installed in pipe. Screwplug heaters from WATTCO™ are used for heating gases and liquids in tanks or vessels. These elements are designed to be fully immersed in liquid so that heat transfer will occur at a rapid rate enabling quick heat up times.

KEY FEATURES

- NPT screwplugs: 1", 1¼", 1½", 2", 2½", 3" and 4"
- Stainless steel, Brass or Steel Screwplugs
- 0.260", 0.315", 0.375", 0.430" and 0.475" diameters available
- Sheath materials:
 - Copper ● Steel ● Incoloy® ● Inconel® ● Stainless steel ● Titanium
- Broad range of standard and custom designs in different sizes, wattage, material junction box types, terminal housings and thermostats (including built thermostats).
- Available explosion and/or moisture resistant terminal enclosures upon request
- UL, CSA & CSA US approved
- NEMA 1, 4, 4x 7 terminal boxes are available



TUBULAR HEATERS

(WT, WTF)

TUBULAR HEATERS

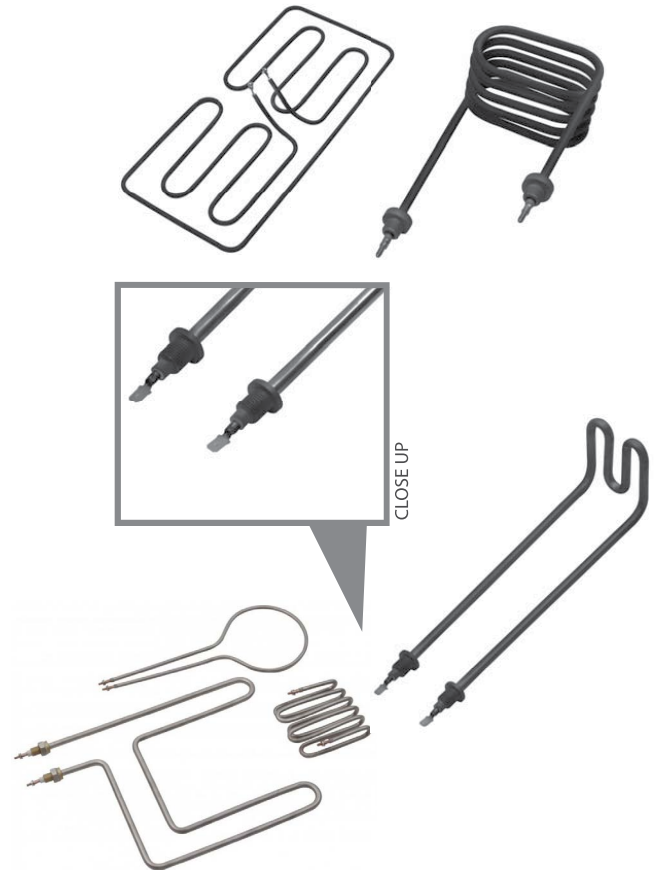
OVERVIEW

Tubular heating elements from WATTCO™ are the most versatile and the best suited solutions to a large number of applications. Tubular Heating elements from WATTCO™ are factory configured to almost any shape or size Custom bending diameters can be made upon request. Tubular elements can be:

- Clamped
- Immersed
- Cast into metal

KEY FEATURES

- Standard diameters: 0.260", 0.315", 0.375", 0.430", 0.475" and 0.625"
- Available in a broad variety of sheaths, diameters and ratings
- Supplied with electrically isolated sheath
- Provide superior internal electrical insulation and heat conductivity
- UL, CSA & CSA US approved



TEMPERATURE CONTROLS

(TE Models)

CONTROL PANELS

OVERVIEW

Control panels are convenient and ready-to-connect, WATTCO™ control panels include temperature, power, multi-loop, process and safety limit controllers. Control panels designed for electric heaters are composed of switching devices, fusing and internal wiring. Control panels can be custom designed to meet the requirements of your application.

KEY FEATURES

- Control panels with voltages up to 4000 amps, 600V
- Contactor power switching
- Stage contactor
- Solid state switching
- Design drawings
- Replacement parts
- Operating instructions
- Component manuals

