



HEATERS FOR BIOFUELS

Whether you need to heat your storage tanks or you want to preheat product before processing, Process Heating Company has the right system for your application. We have over 60 years experience manufacturing electric heating systems with low watt density construction that will not damage the material being heated. These systems feature drywell style elements that allow the internal heaters to be replaced without draining the tank. These electric systems are virtually 100% efficient and carry our exclusive 5-year element warranty.

FLANGED IMMERSION HEATERS

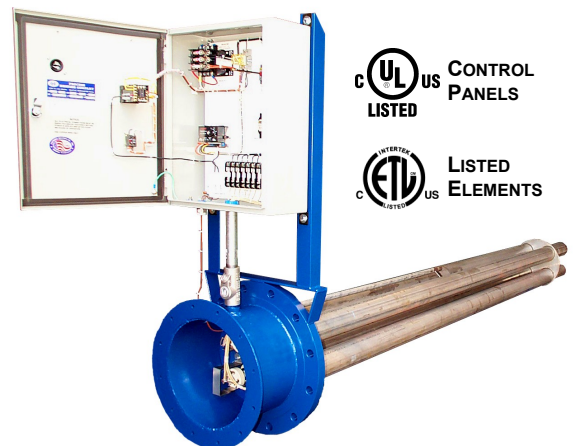
Process Heating Company's (PHCo) Flanged Immersion Heaters are perfect for use in tanks, large vats and reservoirs. These heaters consist of a standard 150# or 300# flange for mounting and PHCo's exclusive heating elements. The elements are drywell style and "lo-density" design. The dry wells allow the elements to be serviced or replaced without draining the tank, a huge advantage if maintenance is required. The low watt density design keeps the element sheath temperature low, reducing the chance of coking or build up on the heater.

The flange and heater tubes can be made of mild steel or various grades of stainless steel depending on your application. These direct immersion heaters are virtually 100% efficient (all the energy consumed is transferred to your process) and easily controlled.

The heaters can be supplied either with our custom, U.L. Listed industrial control panels integrally mounted and wired to the heaters or without if controls are already present. Flanged Immersion Heaters are one of the most widely used methods of heating liquids. PHCo offers many advantages over traditional style tubular elements.

Features

- **Flange/heater materials** – mild steel and various grades of stainless steel
- **Sheath thickness** – up to .300" wall thickness for durability and corrosion resistance
- **Flange sizes** – 3" up to 36" in 150# or 300# ANSI Raised Face
- **Kilowatt ratings** – up to 1,000 kW
- **Watt Densities** – up to 20 watts per square inch, less than 10 is standard
- **Voltages available** – up to 600 VAC, single or 3 phase
- **Immersion length** – up to 40 feet
- **Terminal enclosure** – Moisture resistant standard. Some sizes available as explosion resistant
- **Open coil elements** – Pipe insert type, drywell elements for ease of service



CIRCULATION HEATERS

PHCo's "Lo-Density"® Circulation Heaters are perfect for in-line heating of fluids. These are complete packaged systems available with or without control panels. The flanged vessels are available with an ASME pressure rating and include high temperature insulation and weatherproof aluminum jacketing. The heating elements are low watt density, under 10 watts per square inch to reduce fouling in viscous products. The "drywell" design elements can be removed for service without interrupting your process, a distinct benefit. The terminal enclosures are weatherproof as standard and also available for hazardous environments in selected sizes.

Features

- **Flange/Heater Materials** – mild steel and various grades of stainless steel
- **Sheath Thickness** – up to .300" wall thickness for durability and corrosion resistance
- **Kilowatt Ratings** – Up to 1,000 kW
- **Watt Densities** – up to 20 watts per square inch, less than 10 is standard
- **Voltages Available** – up to 600 VAC, single or three phase
- **Immersion/Vessel Length** – up to 20 feet
- **Terminal Enclosure** – Moisture resistant standard, some sizes available as explosion resistant
- **Open Coil Elements** – Pipe insert type, drywell elements for ease of service



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