



Immersion Heaters & Controls

Metal Heaters

All HeaterTek metal heaters have the same outstanding features:

- Excellent chemical resistance with stainless steel or titanium sheaths
- Low watt density for long life: 35 w/in² (5w/cm²) for standard watt density, 17 w/in² (2.5w/cm²) for deratedCorrosion resistant PP terminal enclosure
- · Grounded metal element
- Voltages: 120, 208, 240, or 480
- Thermal over-temperature protection:

P1 replaceable fuse up to 180° F P4 replaceable fuse up to 230° F P5 replaceable fuse up to 300° F

P2 resettable fuse up to 180° F P6 resettable fuse up to 230° F P7 resettable fuse up to 300° F

HF, HS, & HT

Side Metal Heater





H3F, H3S, & H3T

Triple Tube Over The Side Metal Heater



Derated Metal Over

HD



HD3

Derated Triple Metal Over The Side Heater









Immersion Heaters & Controls

PTFE Fluoropolymer Heaters

All HeaterTek PTFE fluoropolymer heaters have the same outstanding features:

- Excellent chemical resistance to most aqueous chemistries
- Heavy wall PTFE Tubing over stainless steel element
- Low watt density for long life: 10 w/in² (1.5w/cm²)
- Corrosion resistant PP terminal enclosure
- Wire & conduit included, 36" Standard

- Grounded metal element
- Voltages 120, 208, 240, or 480
- Guards available
- Thermal over-temperature protection:
 - P1 replaceable fuse up to 190°F
 - $\bullet~$ P4 replaceable fuse up to 220°
 - P2 resettable fuse up to 190F
 - P8 resettable fuse up to 210°F
 - P6 resettable fuse up to 230°F









Multi Element PTFE Heater



Three Element PTFE Heater



PTFE Heater











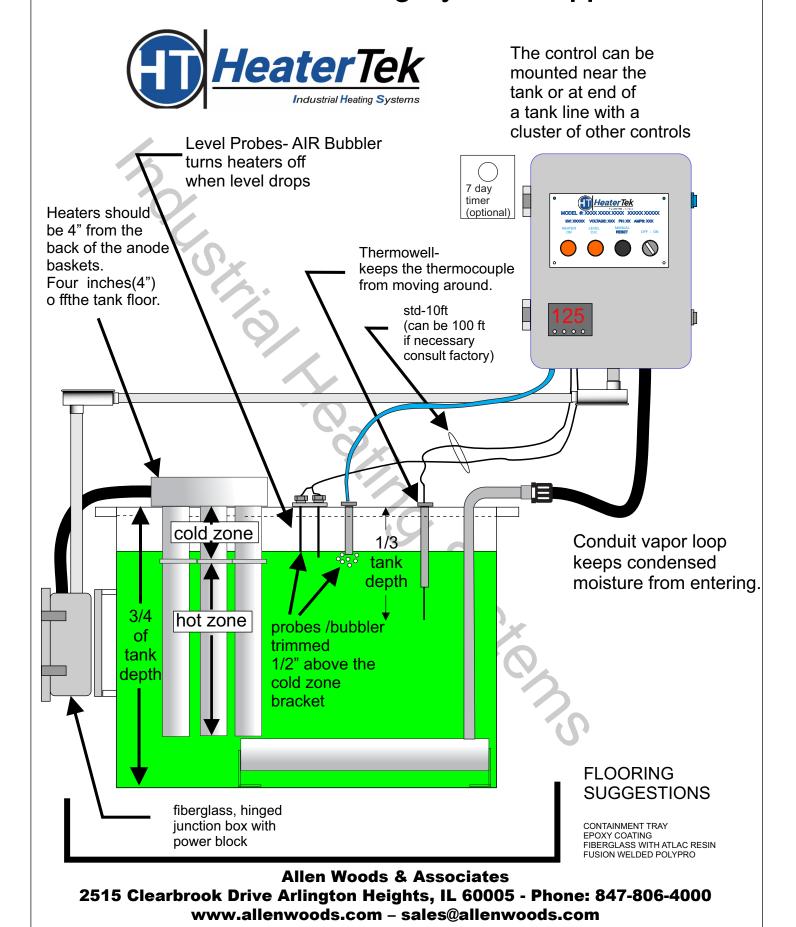
9HZ **Nine Element PTFE** Heater







NEW Immersion Heating Systems Applications



PTFE Heaters

All welded junction boxes Stainless, Titanium on over-the-side Stainless and Titanium



Electric Immersion Heaters with the following sheath materials-

PTFE, Titanium Stainless Quartz



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UP to 200 Amp Service for 2-4 tanks- One box





Lab Gear

Tank Systems







Control with built-in Level Safety Control



Level Controls Air Bubbler







Probe type with manual reset.



available.

Industrial Heating Systems has the capabilities of supplying your heaters needs and so much more.

We can supply you with the necessary heaters and controls. L- shape lab type, Titanium or 316 SS heaters, with a liquid level safety with manual reset button and finishing it with a thermowell to stabilize the teflon type "J" sensor.

Water evaporation systems - The customer wanted to evaporate 5 gallons per hour. We built a 6 heater Evaporation System with auto fill using our AIR Bubbler Level Control System. The Air Bubbler uses air pressure for activation and can work in any solution and temperature. Seven day a week operating system.

Battery Acid... A customer called inquiring about heating some battery acid with quartz heaters. After 15 minutes I sent him a quote for a 4 tank heating system. He had his tanks and we supplied him with the other related equipment.

Double Boiler System for heating wax... The customer wanted a water jacked tank to heat some wax. to 140 F. He gave us the dimension of his container. We proceeded to design and build a heating system using water as the transfer medium. The system worked well enough that the customer ordered a 2nd system.

Tin Fusing is a process where the parts are tin plated and then placed in an oil bath, Reflowing the tin, gives the surface a smoother finish.

The tanks have to be heated externally for safety. We designed and built the tanks.

Level Controls- Every tank with an immersion heater in it, needs a liquid level control system with a manual reset system. Thermal cutoff devices operate in the hot zone. Level controls work above the hot zone. Simple and safer. Easy to check and easy to clean.

We say that because 80-90 % of the process tanks in use, are made of /or have plastic tanks or liners that are petroleum based products.

If you have a new project or even an existing application that you are not sure about, give us a call.





Control Systems





Temperature Indicators







Standard Tank Control



Oil Reflow **Systems**



Double Boiler **Heating System**



