

# TEMPCO

## General Purpose Tank or Reservoir Water Immersion Heater

Part Number TAT40016 (4ft Cord) & TAT40013 (6ft Cord)- 1.44 KW, 120VAC Single Phase  
Part Number TAT40012 (4ft Cord) & TAT40017 (6ft Cord)- 6 KW, 240VAC Single Phase

### Tank Heat-Up Times

The TAT40016 & TAT40013 (1.44KW) will heat 25 GPH (30°F Temperature Rise). A 100 gallon tank can be heated in 4-1/2 to 5 hours, or one-half this time with a 15°F Temperature Rise.

The TAT40012 & TAT40017 (6KW) will heat 90 GPH (30°F Temperature Rise). A 750 to 1,000 gallon tank can be heated in 8-1/2 to 11 hours, or one-half this time with a 15°F Temperature Rise.

### Installation and Operating Instructions

1.) The unit can be suspended in the middle, end or side of the tank. Heater must be securely held in position to prevent the electrical box from making contact with water.

2.) Fill tank to required water depth. The heater must be immersed in water when it is turned on or it can overheat and burn out, cause bodily harm, or can become a fire hazard.








**NEVER TURN HEATER ON UNLESS TANK OR RESERVOIR IS FULL OF WATER.**


3.) Plug heater into appropriate receptacle (see wiring diagram on back of this sheet) and set desired temperature on thermostat dial. The signal light glows only when heating element is energized. When the desired temperature is reached the signal light will be off.

See Wiring Diagram and Important Safety Information on Back



### Features:

-  Immersion section of heater made of 316 Stainless Steel
-  Cold Riser extends to the top of container where control housing is located
-  3-conductor cord set with polarized plug included for easy installation and wiring at no extra charge
-  Adjustable vapor-proof thermostat control with temperature range of 55°F to 115°F (+/-4°)
-  Hi-limit cut switch set to 125°F (+/-4°)
-  Stainless Steel mounting bracket also supplied for easy mounting
-  Pilot light and on-off switch provided

 **NOTE:** There should be no body contact with the tank water while the heater is in the water. This will guarantee protection from the danger caused if an electrical circuit were to occur in the heaters electrical system.

Heating Elements • Controls • Sensors

### HI-LIMIT:

If the thermostat should fail and its contacts stick in a closed position, the heating element will continue to heat the water to about 117°F. At this temperature the Hi-Limit will open and turn the heating element off. After repairing or replacing the thermostat the Hi-Limit can be manually reset.

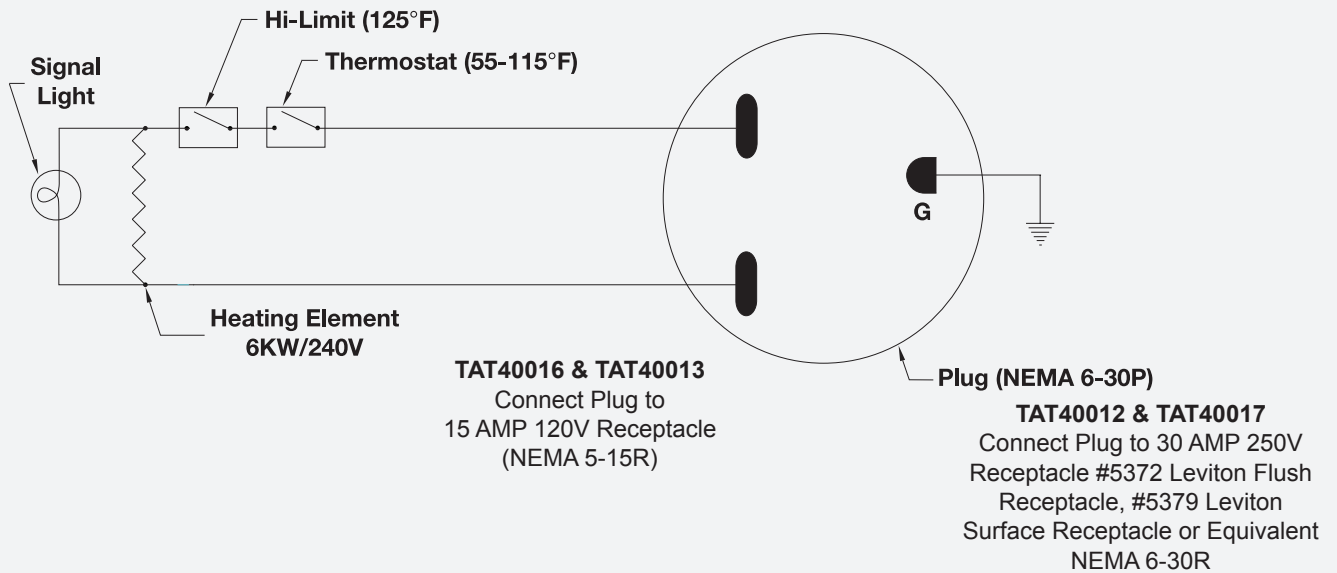
### CAUTION:

Under **NO** circumstances should this heater be turned on unless the system is full of water. Without water the heater coil can burn out quickly and also damage the thermostat control. Our warranty is void under these circumstances and we will assume no responsibility for damage to the heater, associated equipment or other damages.

### WARRANTY:

The entire heater is guaranteed for one year against manufacturing defects. **Customer misuse voids the warranty.**

## Wiring Diagram-Internal Electrical Connections



## Important Safety Information

**Warning: Hazard of Severe Electric Shock or Electrocution**

Installation must be grounded to earth and heater connected to line inputs through properly sized GFCI circuit breaker.

Disconnect power to the heater before servicing. There should be no body contact with the water while the heater is in the water.

Under **NO** circumstances should this heater be turned on unless the system is full of water.