

HOT WATER TROUBLESHOOTING INDEX

1. Hot Water is not Hot 85°C (185° +/- 5°F)


Included in this section are the Two Resettable Hot Tank Overloads (High Limit Safety) Instructions.

1. Hot Water is not Hot 85°C (185° +/- 5° F)

The Hot temperature set point is 85°C (185° F) and is controlled by a thermistor in the well of the Hot Tank.





There are two Hot Tank Overload Devices (High Safety Limit) on the side of the Hot Tank that will trip to prevent damage to the unit if the tank is dry heated (turned on without water in it).



It typically takes 10 minutes for the 500W to heat the 1.6 Liter of room temperature (ambient) water to the 85°C (185° F) set point.

Possible Reason	Solution
No power to heater elements	Check that the Red Heater and Compressor switch is on. Turn Red Heater and Compressor Switch on. <i>I = ON</i> 
Hot Tank Overload Devices (High Safety Limit) tripped <i>Hot Tank Overload Devices (High Safety Limit) is a safety feature to ensure the tank does not overheat.</i>	Hot Tank Overload Devices (High Safety Limit) will “click” when pushed. The Hot Tank Overload Devices (High Safety Limit) are automatically reset when pressed. <u>See Resetting Hot Tank Overload Devices (High Safety Limit) Instructions that are included further below in this Troubleshooting Section</u>
Hot Tank Overload Devices (High Safety Limit) “open” on Hot Tank	Turn Power off. Check OHM’s resistance across terminals on each of the Hot Tank Overload Devices (High Safety Limit) separately. Good components will indicate a closed circuit or zero OHM’s on the meter. Replace components as necessary.
Loose or improperly connected wire(s) to the heating element / hot tank.	Visually inspect wire leads going to the hot tank; confirm proper connections to the heating elements. Hot tank life is 3-5 years, depending on usage.

	<p><i>*Typically, dealers swap out the hot tank at site, take back to the shop to repair.</i></p>
<p>Heating Coil Not Working</p>	<p>Turn Power off; Drain hot tank; Use multi-meter to check heater element for approximately 26 OHM's resistance.</p> <p>Hot tank must be empty if you are checking for continuity.</p> <p>Replace Hot Tank as necessary.</p>

RESETTING THE TWO HOT TANK OVERLOAD DEVICES (HIGH LIMIT SAFETY)

1.	Turn off Red Heater and Compressor Power Switch <i>O = OFF</i> on rear of unit.	
2.	Unplug the Power Cord from rear of unit.	
3.	Remove 4 Phillip Screws from the Access Panel on rear of unit and Lower Access Panel.	
4.	Locate protective metal box on rear of Hot Tank. Push down on top of metal box to access the two Overload Reset Devices.	
5.	Press the Overload Reset Devices.	
6.	Reattach the metal box by depressing the top flap of the metal box so it snaps back into its original position on the Hot Tank.	

7.	Replace the Access Panel and 4 Philips screws.	
8.	Plug in the Power Cord.	
9.	<p>Make sure the hot and cold tanks are filled with water BEFORE turning on the Red Heater and Compressor Power Switch</p> <p>⚠ CAUTION! NEVER TURN ON HEATER BEFORE FILLING HOT TANK. <i>Red Heater and Compressor Power Switch must be in the O=OFF position while the Hot Tank is empty. Damage could occur within one minute and the overload (high limit) will require manual reset if heater is turned on with an empty Hot Tank.</i></p>	
10.	Verify the cooler is fully operational before installing it at the customers' site.	