

HOT WATER TROUBLESHOOTING INDEX

Hot Water Problems

1. Hot Water is not Hot 83°C (181° +/- 5°F)

Also includes related instructions for Resetting the Hot Tank Overload or High Limit Safety

1. Hot Water is not Hot 83°C (181° +/- 5°F)


NOTE: The **WL270 Water Treatment System** does NOT have Sleep or Power Saving Mode and the hot water should be a minimum of 181°F under normal operating conditions.

The Hot temperature set point is 181° F and is controlled by a thermostat on the side of the tank.

There is a resettable overload or high limit safety above the thermostat on the side of the tank that will trip to prevent damage to the unit if the tank is dry heated (turned on without water in it).




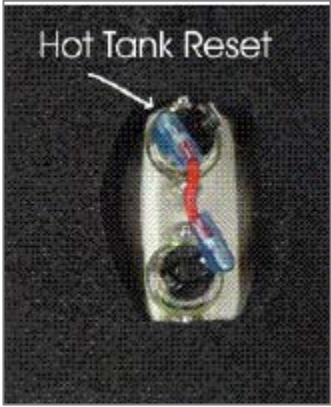

The **WL270 Water Treatment System** does NOT have Extra Hot capability and the maximum hot temperature is 186°F.



It typically takes 10 minutes for the 600W Hot Tank to heat the 1.6 Liter of room temperature (ambient) water to the 83°C (181°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. |

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| <p>Thermostat or overload “open” on Hot Tank</p> | <p>Turn Power off. Check OHM’s resistance across terminals on each Thermostat and Overload separately.</p> <p>Good components will indicate a closed circuit or zero OHM’s on the meter.</p> <p>Replace components as necessary.</p> |
| <p>Loose or improperly connected wire(s) to the heating element / hot tank.</p> | <p>Visually inspect wire leads going to the hot tank; confirm proper connections to the heating elements.</p> <p>Hot tank life is 3-5 years, depending on usage.</p> <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 HOT TANK OVERLOAD OR 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 thermostat and overload |  |
| 5. | Press the reset button |   |
| 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. | |

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|-----|--|---|
| 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! <i>NEVER TURN ON HEATER BEFORE FILLING HOT TANK. 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. | |