

THE PERMAHEAT WHIRLPOOL BATH HEATER



Your whirlpool bathtub heater has been specifically designed to enhance the enjoyment of your whirlpool bath. Once filled, a built-in thermostat constantly maintains the warm relaxing temperature of the whirlpool bath for as long as you desire.

Your whirlpool bathtub heater is totally self-contained to insure trouble free installation and operation. Please read and follow all instructions carefully.

IMPORTANT SAFETY INSTRUCTIONS

You should have received safety instructions with your whirlpool bathtub system. Please read and follow them carefully. Those instructions will include the following warnings:

1. **WARNING:** Risk of electrical shock. Do not permit any electrical appliances (such a light, telephone, radio, or television) within five feet of the whirlpool bath.
2. **DANGER:** To reduce the risk of injury, do not remove the suction cover(s) from the whirlpool bath.
3. To reduce the risk of injury:
 - a. The water in your whirlpool should not exceed 104° Fahrenheit. Lower water temperatures are recommended for extended use (exceeding 10-15 minutes) and are definitely recommended for younger children.
 - b. Pregnant or possibly pregnant women should consult a physician before using the whirlpool. Water temperatures in excess of 100° Fahrenheit are not recommended.
 - c. The use of alcohol, drugs or medication before or during the use of the whirlpool may lead to unconsciousness with the possibility of drowning. Consult your physician before using the whirlpool if you are using any medications.
 - d. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the whirlpool.
4. **WARNING:** Risk of child drowning. To reduce the risk of accidental drowning, do not permit children to use the whirlpool unless they are closely supervised.

ELECTRICAL INSTRUCTIONS

WARNING – RISK OF ELECTRICAL SHOCK: All electrical connections must be accomplished by a qualified electrician in accordance with the National Electric Code and any local codes. In addition, a **GFCI MUST** protect all branch circuits to the whirlpool, and every electrical component **MUST** be grounded. 1. Route two separate branch circuits (figure 1) to the junction box near the whirlpool. Alternate Power Supply: Route a branch circuit for both pump and heater as shown (figure 2).

- Each branch circuit **MUST BE GFCI PROTECTED.**

2. Use copper conductors only.
3. Insure the heater and pump are properly **GROUND**ED and pump is **BOND**ED as required.
4. A timer or air switch can be installed in the pump motor circuit for additional convenience. There is no need to install a timer or air switch in the heater circuit, as all operations are automatic.

NOTICE: If your whirlpool bathtub is equipped with adjustable jets, variable speed pump or other flow control system, the pre-set vacuum or pressure switch may not activate the heater if water flow is inhibited. To assure proper heater operation, all jets may need to be fully open and the pump operated at or near maximum flow. Please refer to your whirlpool bath operation manual for additional information.

CAUTION

- Before use of the pump and heater, test the GFCI for proper operation.
- The pump and/or heater should turn off when the GFCI "Test" button is pressed.

Figure 1

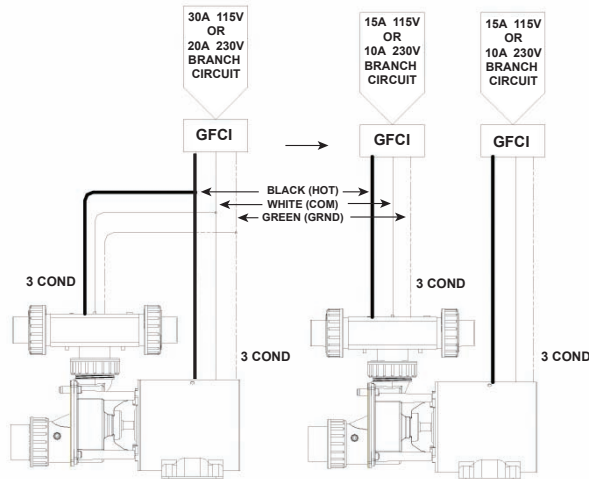


Figure 2

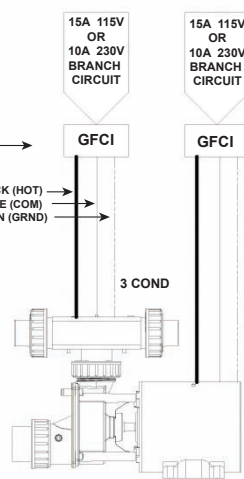


Figure 3

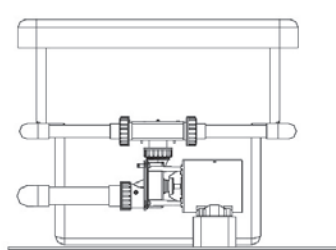
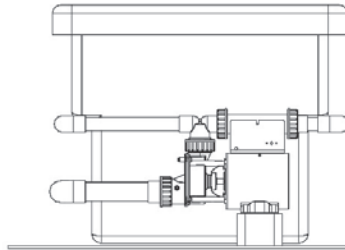


Figure 4



PRESSURE INSTALLATION

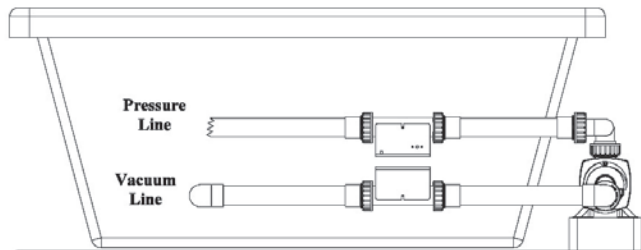


Figure 5

Once the heater is installed, operation is totally automatic. The heater will help maintain the temperature of the water in the bathtub, or increase the temperature of the water in the bathtub at about two to four degrees Fahrenheit per hour. The heater includes the following components.

THERMOSTAT: The "Smart Thermostat" requires no adjustment and will automatically maintain the temperature at 102°-104° Fahrenheit. If the bathtub is too warm, simply adjust by adding cold water. See Important Safety Instructions.

HIGH LIMIT: The heater includes an exclusive "Intelligent High-Limit". This safety circuit will not "false trip" from hot tap water. It will only turn the heater off if the thermostat fails. To reset, simply press the red button. If the high-limit trips frequently, call a service technician.

INDICATOR LIGHT: The light turns on when the heater is operating.

PRESSURE/VACUUM SWITCH: The heater is equipped with a preset pressure or vacuum switch. The pump must be running with water flowing in the whirlpool to allow the heater to turn on. **NOTE:** Smaller fractional horsepower pumps may not activate the heater. Contact your dealer for troubleshooting procedures.