

# ELECTRICAL REQUIREMENTS

## SELECTING THE VOLTAGE FOR YOUR SPA

The PALATINO, MARINO and VANTO models require a 230 volt power supply. The TARINO and AVENTINE may be converted from 115 volts to 230 volts. When the spa is connected to 115 volts, 20 amp, the heater will provide approximately 1000 watts of heat only when the pump is operating in LOW speed and the thermostat is calling for heat. When the TARINO or AVENTINE is connected to 230 volts, the heater will provide heat whether the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.

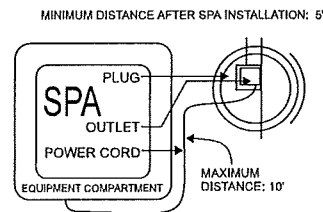
All electrical connections must be made in accordance with the wiring information contained in the electrical control box or on the back of the field wiring access panel of the equipment module.

## STANDARD, CORD-CONNECTED 115 VOLT 20 AMP CONFIGURATION (TARINO & AVENTINE)

For your safety, if you are having an electrician install an electric outlet for the spa it should be no closer than 5 feet (152.4cm) and no further than 10 feet (304.8cm) from the spa. [Reference National Electrical Code 680 - 6a(1) and 680 - 41a.]

One GFCI is used in the cord-connected 20 amp configuration. The GFCI module is located at the end of the power cord. To test the GFCI, simply press the TEST button. The GFCI should trip to the "off" position, disconnecting power to the spa. To reset the GFCI, press the RESET button. The GFCI should reset, and power should be restored to the spa. If the GFCI does not function in this way, unplug the cord and contact an authorized CALDERA spa service technician.

**NOTE:** Consult your local code authority to determine if an electrical outlet with a cover is required for your installation. If it is, a suitable outlet cover may be purchased from your authorized CALDERA dealer.



## 115 VOLT ELECTRICAL REQUIREMENTS

The TARINO & AVENTINE spa must be connected to a 115 volt, 20 amp grounded circuit. The equipment pack requires a MINIMUM of 112 volts under load. A dedicated circuit is required; the term "dedicated" means the electrical circuit CANNOT be used for any other high-load electrical items (patio lights, appliances, garage circuits, etc.). If the spa is connected to a non-dedicated circuit, overloading will result in "nuisance tripping" of the internal fuses or of the breaker switch at the house electrical breaker panel.

The circuit must be properly wired; that is, it must have the following:

- Standard (cord-connected) 115 volt 20 amp – A minimum 20 amp GFCI circuit breaker in the house panel, #12 AWG or larger wire (including the ground wire) and the correct polarity throughout the circuit.
- In addition to the dedicated 20 amp, 115 volt GFCI protected circuit, your spa requires a 20 amp single receptacle. This receptacle, which contains an outdoor-rated, weather-resistant receptacle cover plate, will be provided to you. The single receptacle and cover plate should be installed by your electrician prior to the delivery of your spa.

A pressure wire connector is provided on the exterior surface of the spa's electrical control box, located inside the equipment compartment. This is to permit the connection of a bonding ground wire between this point and any metal equipment, enclosures, pipe or conduit within five (5) feet of the spa (if needed to comply with local building code requirements). The bonding wire must be at least a #10 AWG solid copper wire.

**NEVER CONNECT THE SPA TO AN EXTENSION CORD!**

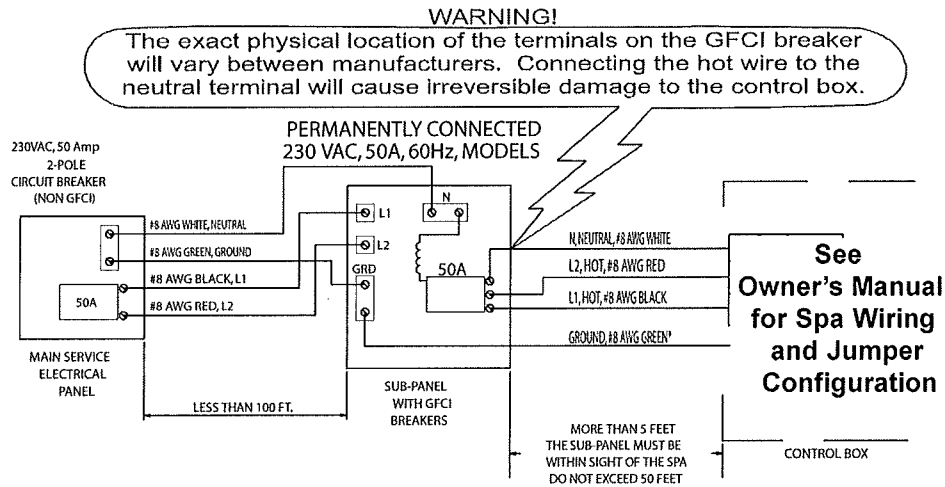
# Pre-Delivery Instructions

The **TARINO** and **AVENTINE** spa comes equipped with approximately 15 feet of usable power cord (this is the maximum length allowed by regulatory standards and the National Electric Code). The power cord is wrapped in bubble packaging for shipping and can be found inside the skirt. Remove the bubble wrap and roll the cord out to the desired length.

## 230 VOLT ELECTRICAL REQUIREMENTS

To ensure you will have an opportunity to use your spa soon after delivery, it is very important that the required electrical service has been installed. Unless otherwise stipulated by your dealer, **THIS IS YOUR RESPONSIBILITY.**

**IMPORTANT:** All electrical circuits must be installed by a qualified, licensed electrician. The equipment pack requires a **MINIMUM** of 112 volts per line under load.



## CAUTIONS

<p>USE COPPER CONDUCTORS ONLY USE SUPPLY WIRES SUITABLE FOR 75°C/167°F. DISCONNECT ALL SUPPLY CONNECTIONS BEFORE SERVICING. CONNECT ONLY TO A CIRCUIT PROTECTED BY A CLASS A GROUND-FAULT INTERRUPTER.</p>	<p>THESE SPAS ARE INTENDED FOR USE WITH GFCI SUBPANEL ALL CANADIAN SPA MODELS USE #8 AWG GREEN, GROUND. INCORRECT WIRING WILL DAMAGE CIRCUIT BOARDS. REFER TO THE WIRING INSTRUCTIONS INCLUDED WITH THE SUB-PANEL FOR DETAILED WIRING INSTRUCTIONS.</p>
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