

Electrical Information

**Caution: Risk of electrical shock.
Read and follow all instructions.**

Important Safety Instructions

All electrical connections to this spa package **MUST** be accomplished by a qualified licensed electrician in accordance with the National Electrical Code (NEC) and with state/local electrical codes in effect at the time of installation.

NOTE: Prior to performing any service to the spa equipment, turn **OFF** all primary electrical power at the main circuit breaker or disconnect panel.

To make spa electrical connections, remove the exterior equipment access panel, locate the electrical control box, remove the control box cover and follow the wiring diagram on the inside of the control box cover.

Connections should be made using copper conductors **only**. Connecting wires, circuit breakers, or fuses must all be sized to accommodate the Total Ampere load as specified on the equipment label.

This equipment is designed to operate on 60Hz alternating current only, at 240 volts or 120 volts, as required.

NOTE: All unions must be hand-tight and all slice valves must be locked in the **OPEN** position before filling or refilling spa! A clip is provided to help keep the slice valve open. Run spa and check for union leaks before reinstalling front panel.

Ground-Fault Circuit Interrupter

A qualified licensed electrician shall connect the spa to a circuit protected by a GFCI. This is a requirement by the National Electric Code, article 680-42, and is also in compliance with Underwriter's Laboratories, Inc.

Installation Options

While knockouts are provided in the cabinet base to bring the conduit to the equipment compartment, a hole may need to be drilled in the pedestal or base if an alternate electrical service entrance is desired.

The 300 Series Model 351 Base unit is convertible

to either 120 volt or 240 volt electrical service. All other models can **only** be connected to a 240 volt electrical service.

120 Volt Installation

Model:

- The 300 Series Model 351 Base.

Electrical Requirements:

- 120 Volts, 60Hz, Single Phase, 40 amp. or *20 amp 3-wire service, (including ground.)

*20 Amp Option

Note: The heater can be activated **only** with the pump on low speed. Only the light can be operating at the same time without disabling the heater. See your authorized Coleman Spas® dealer to select this option.

- 300 Series spas installed for 120 volt operation require a 3-wire, 20 or 40 amp, 120 volt sub-feed in non-metallic pipe to the spa equipment compartment (line 1, neutral and ground). A green colored terminal (or wire connector marked "G", or "GR", "Grounding") is provided in the control box. To reduce the risk of electrical shock, connect this terminal or connector to the grounding terminal of your electrical service or supply panel with a continuous green insulated copper wire equivalent to the circuit conductor supplying this equipment, but no smaller than No. 12 AWG. A second pressure wire connector is provided on the surface of the control box for bonding to local ground points. To reduce the risk of electrical shock, this connector should be bonded with a No. 6 AWG copper wire to any metal ladders, water pipes, or any metal within 5 feet of the spa.

Copper wire is strongly recommended for all electrical connections.

240 Volt Installation

Permanently Connected

Models:

- The 400 Series models (461, 470, 471, 472, 480, 481, and 482) must be connected to a 240-volt electric service. The 351 Base unit is convertible to either 120-volt or 240-volt, but comes factory wired for 240-volt service. The 351 Deluxe model must be connected to a 240-volt service.

Refer to the manufacturer's nameplate located on the kickplate to determine your spa's ampere requirements.

Electrical Requirements:

- 240 Volts, 60Hz, Single Phase, 40 or 50 amp. 4 wire service (line 1, line 2, neutral, and ground) or, ***30 Amp Option**

Note: The heater can be activated only with the pump on low speed. Only the spa light can be operating at the same time without disabling the heater. See your authorized Coleman Spas® dealer to select this option.

Spas installed for 240 volt operation require a 4-wire, 40 or 50 amp., 240 volt subfeed in non-metallic pipe to the spa equipment compartment (line 1, line 2, neutral and ground). A green colored terminal (or wire connector marked "G", or "GR", "Grounding") is provided in the control box. To reduce the risk of electrical shock, connect this terminal or connector to the grounding terminal of your electrical service or supply panel with a continuous green insulated copper wire equivalent to the circuit conductor supplying this equipment, but no smaller than No. 12 AWG. A second pressure wire connector is provided on the surface of the control box for bonding to local ground points. To reduce the risk of electrical shock, this connector should be bonded with a No. 6 AWG copper wire to any metal ladders, water pipes, or any metal within 5 feet of the spa.

Copper wire is strongly recommended for all electrical connections.

- 240 Volts, 60Hz, Single Phase, 60 amp. 4 wire service (line 1, line 2, neutral, and ground) or, ***40 Amp Option**

Note: The heater can be activated only with the pump on low speed. Only the spa light can be operating at the same time without disabling the heater. See your authorized Coleman Spas® dealer to select this option.

Spas installed for 240 volt operation require a 4 wire, 60 amp., 240 volt subfeed in non-metallic pipe to the spa equipment compartment (line 1, line 2, neutral and ground). A green colored terminal (or wire connector marked "G", or "GR", "Grounding") is provided in the control box. To reduce the risk of electrical shock, connect this terminal or connector to the grounding terminal of your electrical service or supply panel with a continuous green insulated copper wire equipment, but no smaller than No. 12 AWG. A second pressure wire connector is provided on the surface of the control box for bonding to local ground points. To reduce the risk of electrical shock, this connector should be bonded with a No. 6 AWG copper wire to any metal ladders, water pipes, or any metal within 5 feet of the spa.

Copper wire is recommended for all electrical connections.

Note: (30 and 40 Amp options) Units operated at 240 volts must have all electrical connections made by a qualified licensed electrician in accordance with the National Electric Code and state/local codes in effect at the time of installation.