

# Electrical Guide

ThermoSpas manufactures many different models and each is available in a variety of packages. This guide is designed to help you best prepare for the hot tub you have ordered or are planning to order.

## **EXECUTIVE PACKAGES:**

240 V, 60 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Required Service: Heater is able to heat water at a rate of 5-8 °/hr with as many as three pumps, or two pumps and a blower, operating simultaneously.

## **DELUXE PACKAGES (except Gemini, Townhouse and Lexington):**

240 V, 60 Amps, 4 Wires  
(Wire Gauge : 6 AWG)

Recommended Service: Heater is able to heat water at a rate of 5-8 °/hr with as many as three pumps, or two pumps and a blower, operating simultaneously.

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Minimum Service: Heater will not operate when more than one pump is on high speed. Choose this service in cases where household electric cannot handle the 60 Amp additional demand.

## **GEMINI, TOWNHOUSE AND LEXINGTON DELUXE PACKAGES:**

240 V, 50 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Recommended Service: Heater is able to heat water at a rate of 5-8 °/hr with all pumps operating simultaneously.

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Minimum Service: Heater will not operate when more than one pump is on high speed. Choose this service in cases where household electric cannot handle the 50 Amp additional demand.

## **ELITE PACKAGES:**

240 V, 50 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Recommended Service: Heater is able to heat water at a rate of 5-8 °/hr with all pumps operating simultaneously.

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Minimum Service: Heater will not operate when more than one pump is on high speed. Choose this service in cases where household electric cannot handle the 50 Amp additional demand.

## **STANDARD PACKAGES:**

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Required Service: Heater is able to heat water at a rate of 5-8 °/hr with pump on low or high speed.

## **VALUE AND ECONOMY PACKAGES:**

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Recommended Service: Heater is able to heat water at a rate of 4-6 °/hr with the pump on low or high speed.

120 V, 15 Amps, 3-Wires  
(Wire Gauge : 14 AWG)

Minimum Service: There are two available options for this service: (1) Your spa can be hardwired or (2) plugged directly into a wall receptacle, if equipped with a GFCI plug and cord. Water will only heat at a rate of 1-3 °/hr when operating at 120V and heater will shut off when pump is operated on high speed.

## **SIGNATURE SERIES, DELUXE PACKAGES:**

240 V, 40 Amps, 4-Wires  
(Wire Gauge : 6 AWG)

Recommended Service: Heater is able to heat water at a rate of 4-6 °/hr with the pump on low or high speed.

120 V, 15 Amps, 3-Wires  
(Wire Gauge : 14 AWG)

Minimum Service: There are two available options for this service: (1) Your spa can be hardwired or (2) plugged directly into a wall receptacle, if equipped with a GFCI plug and cord. Water will heat at a rate of 1-3 °/hr when operating at 120V and heater will shut off when pump is operated on high speed.

## **SIGNATURE SERIES, STANDARD PACKAGES:**

120 V, 15 Amps w/GFCI Plug  
(GFCI Plug & Cord Included)

Required Service: Enables the spa to be plugged directly into a wall receptacle. Water is heated at a rate of less than 1 °/hr. using a heat recovery jacket around the pump motor. There is no separate heater in this spa package.

ThermoSpas offers both hard-wired and cord-connected spa models. There are advantages and disadvantages to both approaches.

A hard-wired 240V service maximizes the power to the spa. As a result, the user can choose from a wide range of options while using the spa. The drawback to a hard-wired spa is that it requires an electrician to run a dedicated GFCI protected electrical circuit to the spa. Note that 120V hard-wired services are not recommended because a 240V line can be run for approximately the same price and will offer more power to the spa, enabling quicker heating of the water (4-6 °/hr vs 1-3 °/hr) and the ability to heat with the pump on high speed. All electrical services require copper conductors.

Plug-in style 120V spas offer the convenience of being able to plug your spa directly into the wall without the need to have an electrician run a dedicated circuit. The drawback to a plug-in style spa is that the water cannot be heated while the pump is on high speed (except Signature Series Standard Package).

Note that spas may trip the circuit breaker if there are other high-powered devices running on the same circuit. Choose a circuit that is not heavily loaded.