

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.

DIAMOND 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.

PLATINUM PACKAGES (except Gemini, Townhouse and Lexington):

240 V, 60 Amps, 4 Wires
(Wire Gauge : 6 AWG)
240 V, 40 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.

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 PLATINUM PACKAGES:

240 V, 50 Amps, 4-Wires
(Wire Gauge : 6 AWG)
240 V, 40 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.

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.

ALL GOLD & SILVER PACKAGES & ALL GENESIS 400 SERIES (EXCEPT GEMINI):

240 V, 50 Amps, 4-Wires
(Wire Gauge : 6 AWG)
240 V, 40 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.

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.

GEMINI GENESIS 400 & ALL GENESIS 200 SERIES:

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.

ALL GENESIS 100 SERIES:

240 V, 40 Amps, 4-Wires
(Wire Gauge : 6 AWG)
120 V, 15 Amps, 3-Wires
(Wire Gauge : 14 AWG)

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

Minimum Service: There are two available options for this service: (1) Your spa can be hard-wired or (2) plugged directly into a wall receptacle, if equipped with a GFCI plug and cord. **(See Note #1)** The GFCI Plug-In Cord Option does not comply with existing Canadian electrical wiring guidelines and is not available in Canada. 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.

A hard wire 240V service maximizes the power to the spa. As a result, the user can choose from a wide range of options while the spa is in use. A 240V service requires an electrician to run a dedicated GFCI protected circuit from your main panel, to an approved disconnect, to the spa. The benefits of a 220V service include quicker and more efficient heating of the water (4-6 degs/hr vs. 1-3degs/hr from 120V) and the ability to run your pumps on high speed and still be heating at the same time (if wired to recommended service).

Plug-in style 120V spas offer the convenience of being able to plug your spa directly into a 20amp 120V wall outlet. However under most circumstances the installation of a new dedicated 20amp circuit is recommended due to other high powered devices running on the same circuit of intended use. Keep in mind that seasonal devices such as Christmas lights and other outdoor electrically operated tools (leaf blowers, hedge trimmers, etc) will also play a role in whether you should use a circuit or not. Therefore make sure you choose a circuit that is not heavily loaded and will remain that way at all times of the year.

Note #1: The GFCI Plug-In Cord Option does not comply with existing Canadian electrical standards (CSA) and is not available in Canada.