



# 2006 Pre-Delivery Guide

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Due to our continuous improvement programs, all models, operation, and/or specifications are subject to change without prior notice.





## CONTACT INFORMATION

For customer service, please contact your authorized dealer immediately. If you need additional information and/or assistance, please contact:

C.A.I. Customer Service Department  
1462 East Ninth Street  
Pomona, CA 91766

Toll Free: 1-800-CAL-SPAS  
Fax: 1-909-629-3890

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## **Congratulations on the purchase of your new Cal Spa!**

With a little preparation and care, your spa will give you many years of enjoyment. This booklet has been designed to provide you with all the information you'll need to ensure a safe and easy spa delivery and installation.

Most cities and counties require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children under the age of 5. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your Cal Spa.

# Planning the Best Location

Here are some of the things that you will need to consider when determining where to place your new spa.

## Safety First

- Do not place your spa within 10' (3m) of overhead power lines.
- Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked. Be certain that your installation will meet all city and local safety codes and requirements.

## Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you'll probably want to create a specific mood around it.

## Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

## Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

## Provide A View With Your Spa

Think about the direction you will be facing when sitting in your spa. Do you have a special landscaped area in your yard that you find enjoyable? Perhaps there is an area that catches a soothing breeze during the day or a lovely sunset in the evening. Consider these things when you plan your location.

## Keep Your Spa Clean

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bather's can clean their feet before entering your spa. You may also consider keeping a small water-filled basin nearby for bathers to rinse their feet before enter your spa.

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris.

## Allow For Service Access

Many people choose to install a decorative structure around their spa. If you are installing your spa with any type of structure on the outside, such as a gazebo, remember to allow access for service. It is always best to design special installations so that the spa can still be moved, or lifted off the ground if necessary.

# Preparing a Good Foundation

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could **DAMAGE YOUR SPA SHELL AND FINISH**.

**Note:** Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa.

Place the spa on an elevated foundation (preferably a 3" concrete slab). If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained.

If you are installing your spa on an elevated wood deck or other structure, it is highly recommended that you consult a structural engineer or contractor to ensure the structure will support the weight of **150 pounds per square foot**.

To properly identify the weight of your new Cal Spa™ when full, remember water weighs 8.33 lbs. per gallon. For example, an average 8' Cal Spa™ spa holds approximately 500 gallons of water. Using this formula, you will find that the weight of the water alone is 4,165 Lbs. Combined with the dry weight of the spa you will note that this spa will weigh approximately 5,000 Lbs. when full of water.

**Note:** It is strongly recommended that a qualified, licensed contractor prepare the foundation for your spa.

Your Cal Spas™ retailer can help you with your foundation and more. Your retailer has a wealth of information and experience about how to get the most out of your spa and can provide you with a full line of accessories that are designed to compliment your spa and increase your enjoyment.

# Getting Your New Cal Spa Into Your Yard

## Check the Dimensions of Your New Cal Spa

The Cal Spas Specification Chart lists your spas model and its dimension as it sits on the delivery cart. During delivery, the spa must remain on the delivery cart at all times. Compare the dimensions to the width of the gates, sidewalks, and doorways along the delivery route. It may be necessary for you to remove a gate or partially remove a fence in order to provide an unobstructed passageway to the installation location.

## Plan the Delivery Route

Consider the following when planning your delivery route:

- Check the width of gates, doors and sidewalks to make sure your spa will pass through unobstructed. You may have to remove a gate or part of a fence to allow for adequate width clearance.
- If the delivery route will require a 90° turn, check the measurements at the turn to ensure the spa will fit.
- Are there protruding gas meters, water meters or A/C units on your home which will cause obstructions along the delivery path to your yard?
- Are there low roof eaves, overhanging branches or rain gutters that could be an obstruction to overhead clearance?
- Are there stairs in your delivery route? If so, you must consult your Cal Spas dealer prior to delivery to make adequate preparations.

## Special Circumstances

The use of a crane for delivery and installation may become necessary if you are unable to provide an adequate delivery route. It is used primarily to avoid injury to your spa, your property or to delivery personnel. Your Cal Spas dealer may be able to assist you with the arrangements. If your spa delivery requires the use of a crane, the cost of a crane is generally **not included** in the standard delivery service.

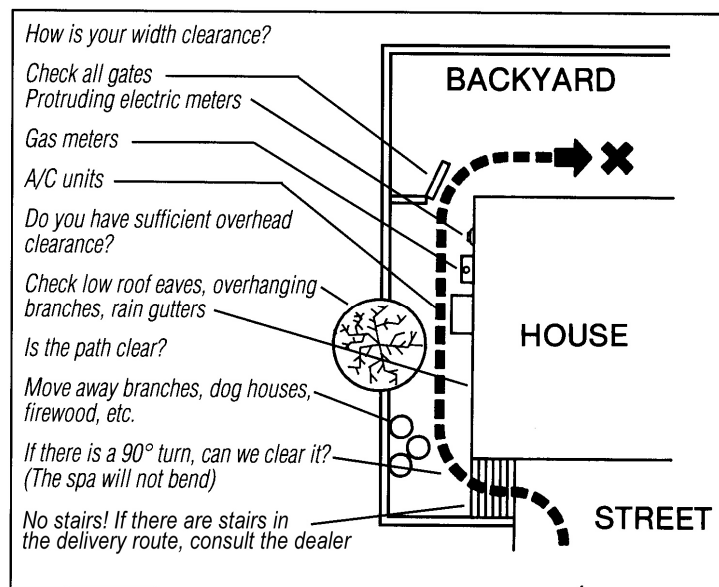


Figure 1. Access considerations

# Electrical Requirements

When installed in the United States, the electrical wiring of this spa must meet the requirements of National Electric Code, ANSI/NFPA 70-1999 and any applicable state or local codes. The electrical circuit must be installed by an electrical contractor and approved by a local building / electrical inspector.

All 240V spas must be permanently connected (hard wired) to the power supply. 120V spas may use a GFCI cord, plugged into a dedicated grounded outlet. Supplying power to a spa that is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.

The power supplied to the spa must be on a dedicated GFCI circuit with no other appliances or lights sharing the power.

To determine the current, voltage, and wire size required for the spa configuration to be connected, refer to the following:

- Wire size must comply with NEC and/or local codes.
- Wire size is determined by length of run from breaker box to spa and maximum current draw.
- We recommend copper wire with THHN insulation.
- All wiring must be copper to ensure adequate connections. Do not use aluminum wire.
- When NEC requires the use of wires larger than #6 (10mm<sup>2</sup>), install a junction box near the spa and use #6 (10mm<sup>2</sup>) wire between the junction box and the spa.

**IMPORTANT:** A clearly labeled emergency shutoff or control switch for the purpose of stopping all electrical power to the spa including the motors, recirculation system and jet system shall be installed at a point readily accessible to the users and not less than 5 feet (1.5 m) away, adjacent to, and within sight of the spa. (NEC 680.41)

The electrical circuit for the spa must include a suitable GFCI as required by NEC 680.42.



## 120 Volt Electrical Installation

Always follow applicable local, state and federal codes and guidelines.

- Use only a dedicated electrical line with a 20-amp breaker.
- Cord-and-plug connections may not use a cord longer than 15 ft (4.6 m) and must be plugged into a dedicated 20-amp GFCI connection (NEC 680.42(A)(2)). **Do not use extension cords!**
- Always use a weatherproof-covered receptacle.
- Receptacle shall be located not less than 5 ft (1.5 m) from and not exceeding 10 ft (3.0 m) from the inside wall of the spa. (NEC 680.43(A))
- Do not bury the power cord.
- If your cord becomes damaged, replace it before next usage.

All 120V spas must have a GFCI (Figure 2). This can be either a 20-amp GFCI receptacle or a GFCI cord and plug kit (CKIT110 - P/N ELE09700086).



**Figure 2. 120V, 15-amp GFCI Plug**

Test the GFCI plug prior to first use and periodically when the spa is powered. To test the GFCI plug version, follow these instructions. (Spa should already be plugged in and operational.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will stop operating.
2. Press the RESET button on the GFCI. The GFCI will reset and the spa will turn back on.

The spa is now safe to use.

If the GFCI trips while the spa is in use, press the RESET button. If the GFCI does not reset, unplug the spa and call your local Cal Spas dealer for service. **DO NOT USE THE SPA!**

### 240 Volt Electrical Installation

All 240V spas are required to have a dedicated 50-amp GFCI breaker and should only be wired by a licensed electrician. GFCI breakers vary in appearance and wire locations. Before wiring load and feed wires to breaker verify they are being connected to the proper poles. Figure 3 and Figure 4 have been provided as guides.

- Always follow applicable local, state, and federal codes and guidelines.
- Your new 240V Cal Spa requires a dedicated, 50-amp GFCI Service with four #6 AWG copper wires. This will include a black and a red wire for your incoming power, a white wire used for your neutral, and a green wire for your ground.

You can use #6 AWG wire for a distance of up to 85 ft. Wire run over 85 ft must increase to #4 gauge. **This is the only acceptable electrical wiring procedure.** Spas wired in any other way will void your warranty and may result in serious injury.

Installing a GFCI breaker in the main electrical panel is not recommended. The further away a GFCI is installed from the spa, the higher the risk of false tripping of the GFCI breaker.

Test the GFCI breaker prior to first use and periodically when the spa is powered. To test the GFCI breaker follow these instructions. (Spa should be operating.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will shut off.
2. Wait 30 seconds and reset the GFCI breaker by turning the breaker off then back on. Your spa will be operational in about five seconds.

Your spa is now safe to use.



**Figure 3. Sample GFCI breaker**

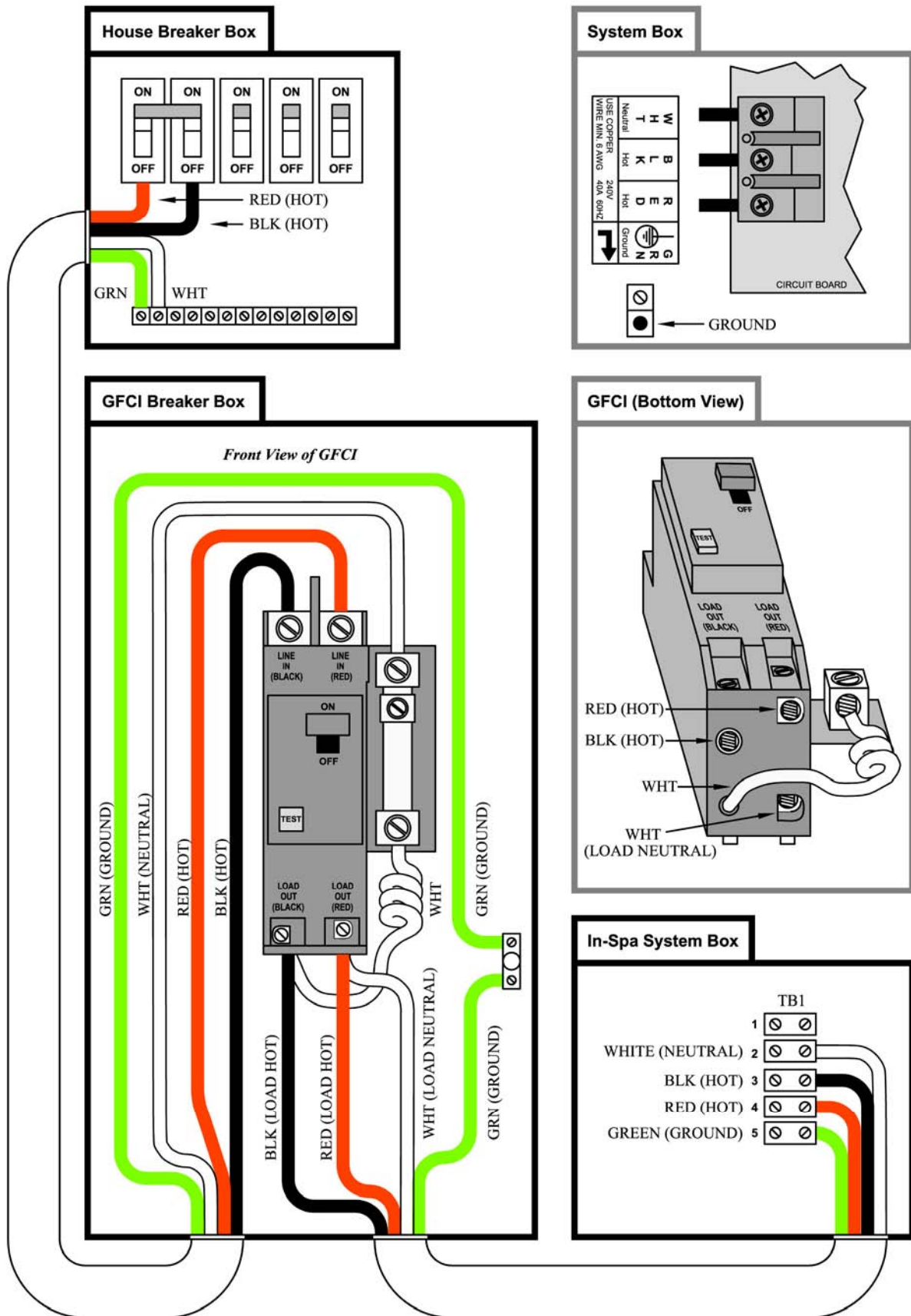


Figure 4. GFCI Hook-Up

# Technical Specifications

All sizes on this chart represent top-rail dimensions. Due to our continuous improvements, specifications, size and pricing are subject to change without prior notice.

## Family Fun Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
FF-90	54"	78"	31"	125	350 Lbs.	1391 Lbs.
FF-100	78"	Round	36"	300	600 Lbs.	3099 Lbs.
FF-150	78"	Round	36"	300	600 Lbs.	3099 Lbs.
FF-190	78"	78"	39 1/2"	300	700 Lbs.	3199 Lbs.
FF-390	74"	84"	32"	300	600 Lbs.	3099 Lbs.

## Victory Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
V-200	77"	77"	31 1/2"	325	600 Lbs.	3307 Lbs.
V-300	77"	77"	31 1/2"	325	600 Lbs.	3307 Lbs.
V-400	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-500	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-600	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
V-700	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-800	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-850	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.

## Journey Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
J-501	66"	76"	32"	205	640 Lbs.	2348 Lbs.
J-502	76"	84"	33"	325	730 Lbs.	3437 Lbs.
J-503	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-504	84"	93"	39 1/2"	440	850 Lbs.	4515 Lbs.
J-505	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-506	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-507	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
J-508	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.

**Signature Series**

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
S-702	64"	84"	32"	125	535 Lbs.	1576 Lbs.
S-703	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
S-704	73"	84"	39 1/2"	300	600 Lbs.	3099 Lbs.
S-705	84	93	39 1/2"	450	900 Lbs.	4684 Lbs.
S-706	84"	84"	39 1/2"	450	850 Lbs.	4598 Lbs.
S-707	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
S-708	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
S-709	93	130"	39 1/2"	800	1200 Lbs.	7864 Lbs.

**Home Series**

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
H-901	72"	72"	30"	130	600 Lbs.	1583 Lbs.
H-902	84"	93"	39 1/2"	355	620 Lbs.	4556 Lbs.
H-903	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
H-904	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
H-905	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
H-906	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
H-907	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
H-908	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.

**C-22**

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
CJ-22	66"	76"	32"	205	640 Lbs.	2348 Lbs.
CP-22	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CT-22	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CV-22	74"	84"	39 1/2"	375	600 Lbs.	3723 Lbs.
CA-22	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CBA-22	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CD-22	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CM-22	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CS-22	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
CR-22	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
CB-22	54"	78"	31"	125	350 Lbs.	1391 Lbs.
CK-22	74"	84"	32"	300	600 Lbs.	3100 Lbs.
CO-22	78"	78"	39 1/2"	300	600 Lbs.	3200 Lbs.

## Technical Specifications

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### C-36

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
CP-36	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CT-36	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CA-36	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CBA-36	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CD-36	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CM-36	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CS-36	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CR-36	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
CN-36	93"	130"	39"	800	1200 Lbs.	7864 Lbs.
CE-36	96"	135"	38 3/4"	900	1100 Lbs.	8595 Lbs.

### C-51

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
CP-51	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CT-51	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
CA-51	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CBA-51	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CM-51	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
CS-51	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
CR-51	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
CN-51	93"	130"	39"	800	1200 Lbs.	7864 Lbs.
CE-51	96"	135"	38 3/4"	900	1100 Lbs.	8595 Lbs.
CD-51	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.

### Infiniti Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
I-600	93"	73"	39 1/2"	325	700 Lbs.	3100 Lbs.
I-601	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
I-602	84"	84"	39 1/2"	425	850 Lbs.	4390 Lbs.
I-603	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
I-604	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.

### Aqua Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
SQ-43	93"	130"	39 1/2"	800	1200 Lbs.	7864 Lbs.
SQ-63	93"	120"	39 1/2"	800	1200 Lbs.	7864 Lbs.
SQ-92	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
SQ-88	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
SQ-400	77 1/2"	77 1/2"	32"	325	640 Lbs.	2500 Lbs.
SQ-500	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.
SQ-700	93"	93"	39 1/2"	500	900 Lbs.	5065 Lbs.
SQ-800	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.

## Galaxy Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
GX-49	93"	93"	39 1/2"	450	900 Lbs.	4648 Lbs.

## Ultimate Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
Challenger	93"	202"	51"	2500	2300 Lbs.	22125 Lbs.
Champion	96"	169"	52"	1500	2300 Lbs.	13,995 Lbs.
Olympian	96"	206"	52 1/2"	2025	2600 Lbs.	18,976 Lbs.

## Designer Series

<b>Model</b>	<b>Width</b>	<b>Length</b>	<b>Depth</b>	<b>Gallons</b>	<b>Dry Weight</b>	<b>Filled Weight</b>
DI-401	93"	34"		500	500 Lbs.	4665 Lbs.
DI-402	93"	93"	32"	500	500 Lbs.	4665 Lbs.
DI-403	93"	93"	34"	500	500 Lbs.	4665 Lbs.
DI-404	130"	93"	36"	750	750 Lbs.	6997 Lbs.
DI-405	130"	93"	32"	900	750 Lbs.	8247 Lbs.
DI-406	120"	80"	34"	800	750 Lbs.	7414 Lbs.
DI-407	93"	200"	52"	2500	1300 Lbs.	22125 Lbs.

**Please make a record of the following.  
It will be valuable if service is required.**

Cal Spa Model:

Cal Spa Serial Number:

Date Purchased:

Date Installed:

Cal Spa Dealer's Phone Number:

Cal Spa Dealer's Address:

C.A.I. Customer Service Department  
1462 East Ninth Street  
Pomona, CA 91766

Toll Free: 1-800-CAL-SPAS  
Fax: 1-909-629-3890

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