



This Guide will tell you every thing you need to know about the delivery and installation of your new QCA Spa from Hot Tub Outpost USA.



Pre-Delivery Guide

Important Information

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

Spa Model: _____

Spa Serial Number: _____

Date Purchased: _____

Date Installed: _____

Spa Dealer: _____

Spa Dealer's Address: _____

Spa Dealer's Phone Number: _____

Sales Person's Name: _____

Spa Service Dealer: _____

Spa Service Dealer Address: _____

Spa Service Dealer's Number: _____

Spa Service Person's Name: _____

Introduction

Congratulations on the purchase of your new QCA Spa!

With some advance preparation, delivery of your new spa will be a breeze. We've prepared this planning guide to provide you with the information necessary for you to be ready for your spa's delivery. We recommend reading this guide completely prior to the scheduled delivery of your QCA Spa from Hot Tub Outpost. Proper preparation and care of your new spa will give your family years of relaxation and enjoyment.

Table of Contents

Section	Page
1. Things to determine before Spa Installation	4
2. Selecting the best location for your Spa	6
3. Plan a good foundation for your Spa	9
4. Plan the delivery of your Spa	11
5. Electrical requirements before Spa delivery	14
6. GFCI wiring diagram	16
7. Electrical installation after Spa delivery	17
8. QCA Spas wiring placement underneath Spa	18
9. Wiring Schematic	19
10. QCA Spa specifications	20

1. Things to determine before Spa Installation.

- o Will my spa be located inside or outside?
- o How much space do I have available for a spa?
Size of room, deck, or patio.
- o What are the measurements of door openings, fence gates or deck stairs for getting your spa to its destination?
- o Check the dimensions of your spa's length, width, and depth to determine if it will pass through interior doors or exterior gates?
- o Check the weight of your spa without water and filled with water. Will your deck, patio, or room floor support its considerable weight?
- o Does your home have a dedicated 50 or 60 AMP breaker in the house's main breaker box or will one have to be added by an electrician?
- o How far is it from your main breaker box to where your spa will be located?
- o Is there a water source available nearby to fill and drain the spa with a garden hose?

Commonly Asked Questions and Answers

- o Do I need a building permit?

Most cities and counties require permits for exterior construction and electrical circuits. Check with your county or city to see if a building permit is required for spa installation.

- o Do I need a fence or a gate around my spa?

Some communities have codes requiring residential barriers such as fencing and/or self closing gates on the property to prevent unsupervised access to a spa by children under five years of age. Consult your local or county building codes to determine the need for a fence or gate.

- o Do I need a Plumber?

No plumbing is required; your QCA Spa is entirely self contained. Fill the spa using a garden hose; to empty, QCA Spas feature a built in quick drain. (Not available on all models).

- o Do I need an Electrician?

Yes, you will need to hire an electrician to install the 240-volt wire and 50 or 60 AMP neutrally protected GFCI (Ground Fault Circuit Interrupter) which are sold separately. Your main breaker box will also need to have a 50 or 60 AMP breaker. Your spa is hard wired through the floor or side wall of the spa cabinet, directly into the spas control pack. The GFCI is installed next to the spa on an exterior wall at least 10 feet from the spa water. (120 volt spas have GFCI cord included with plug.)

2. Selecting the best location for your spa.

Indoors or outdoors, its up to you. But there are some things you will need to consider when determining your spas placement.

Outdoor Spa Placement

Outdoor spa placement, such as decks or concrete is common. However, the spa can be placed on any solid, uniform, level surface. Do not place your spa on bare ground. If placing your spa on a wooden deck, be sure to consider your spa's weight (filled with water) and the weight bearing capacity of your deck.

Note: Damage caused by inadequate or improper foundation support is not covered by the manufacturer's warranty. A spa should rest completely flush with its foundation, therefore, do not endeavor to hand level your spa. The spa should not be shimmed in any way in an effort to level it. This may crack your spa shell or cause other internal damage. It is the responsibility of the spa owner to provide a proper foundation for the spa. Any attempt to manually level your spa, will void the warranty.

A normal, code-compliant (2" x 10" joist) at 16" on center deck is adequate.

The floor load of a filled spa with people is around 125 lbs. per square foot. Your base should have at least 150 lbs. per square foot load capacity.

If you are not comfortable with your deck support, have it inspected and add bracing if necessary.

DO NOT place your spa directly under or within 12 feet of over head power, telephone or cable lines.

Make sure the spa is positioned so you have full access to the equipment compartments located by the spa controls. Be sure to leave at least 30” around all sides and back panels for easy service access if needed.

Many people choose to build there spa into a deck or patio with custom tile or wood built up to the top of the spa cabinet for a built in look. When designing your project, remember to allow for service access on all 4 sides of your spa, or access from beneath. Its always best to design an installation where the entire spa can be lifted or removed from the deck or patio, if needed.

Weather

If you live in a climate with a cold snowy winter and hot summer, you may want to place your spa close to an exterior door for easy spa access. A bathroom or changing room located close to your spa, can also be convenient.

A warmer climate may require shade from the hot sun.

Consider placement of your spa next to trees, shrubs, patio cover, under a gazebo or spa umbrella.

Privacy

Keep in mind your spa’s surroundings (trees, shrubs, fences) during all seasons to determine your best privacy. Consider the view of your neighbors and plan your location accordingly.

View

Think about the direction you will be facing when sitting in your spa. Facing the exterior siding of your house would not be very enjoyable. Place your spa where you will be facing a special landscaped area of your yard or a lovely evening sunset.

Keep Dirt and Debris Out of your Spa

Check the location of trees and spill paths from gutters to see if wind or rain will sweep debris into your spa. Prevent dirt and foliage from being tracked into your spa by providing a concrete path.

Indoor Spa Placement

For indoor spa placement, regular, code-compliant floors or basement concrete are adequate to support the weight. Four season rooms, screened in rooms, and porches must be checked for adequate floor support.

Indoor installation requires adequate ventilation. When the cover is off and the spa is in use, considerable amounts of humidity and moisture are put into the air. This moisture can damage, walls, ceilings, carpeting, draperies and furniture. You will need to install a ventilation exhaust fan either above the spa in the ceiling or in a side wall or window, next to and above the spa water. We also recommend a humidistat that will automatically turn on the exhaust fan when moisture is present.

Exhaust fans are rated by CFM's (Cubic Feet per-Minute). The fan must be powerful enough to remove all the air in the room in 3 minutes. To determine what size fan you will need, measure the rooms length x width x height and divide by 3 = CFM's.

Example: 20' x 10' x 8' = 1600 cubic ft. / 3 = 533 CFM's.

You would need at least a 533 CFM fan for this room.

We do not recommend placing your spa directly on household carpet or a wood floor. We recommend placing your spa on a ceramic tile or water resistant floor material. Extend this water resistant material at least 2 feet around the spa, in case of over splash and to catch water from bathers exiting the spa.

3. Plan a good foundation for your spa

Your spa needs a solid level foundation. The area that your spa sits on must be able to support the weight of the spa, the water in it, and those who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress to the spa's shell.

Note: Damage caused by inadequate or improper foundation support is not covered by the manufacturer's warranty. A spa should rest level and completely flush with its foundation, therefore, do not endeavor to hand level your spa. The spa should not be shimmed in any way in an effort to level it. This may crack your spa shell or cause other internal damage. It is the responsibility of the spa owner to provide a proper level foundation for the spa. Any attempt to manually level your spa, will void the warranty.

A spa filled with water is very heavy. Existing decks and concrete patios must be inspected by a licensed contractor to determine adequate support. Your base must have a minimum of 150 pounds per sq. ft. load bearing capacity. Add additional bracing if necessary.

Place the spa on an elevated foundation so that water drains away from it. Proper drainage will keep components protected from rain and wet weather.

New concrete patios must be a 4" minimum depth with re-enforced wire placed in the concrete.

New wood decks should have (2 x 10) floor joist and (4 x 4) or (6 x 6) post depending on deck height. Consult a structural engineer or contractor to ensure the proper support for the height and size of your deck.

Heavy duty PVC spa pads are available from your dealer to place your spa on if you do not have a deck or patio.

We do not recommend placing your spa on a brick, stone, or gravel base.

DO NOT place your spa on bare ground!

4. Plan the delivery of your spa

Check the dimensions of your spa

The Spa Specification chart on page 20 lists your spa model and its dimensions. Compare the dimensions to the width of gates, sidewalks, and doorways along the delivery route used to bring the spa into your yard. 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.

How will your spa be delivered to you?

Curbside Delivery

_____ Spas ship standing upright/tall and banded to a crate. Your factory wrapped hot tub will be placed in your driveway by the shipping company. The spa cover is attached to the hot tub during delivery to assure safe transport.

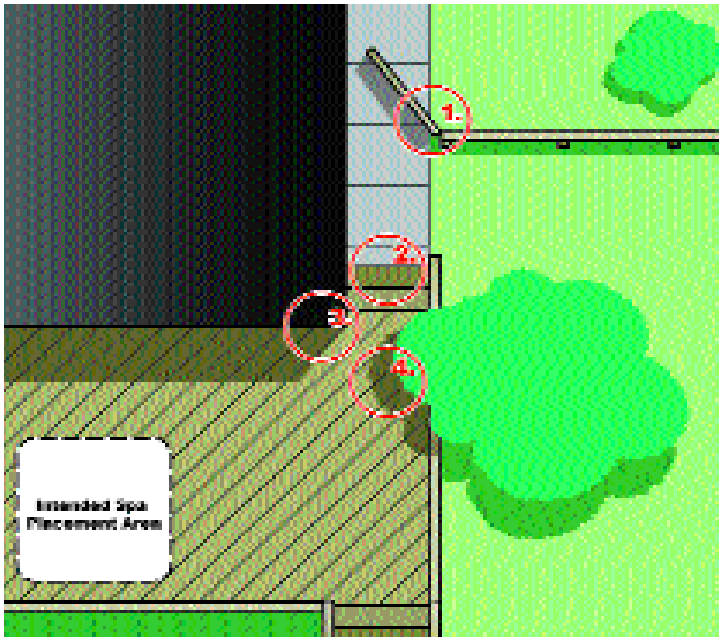
Indoor placement or placement on a deck higher than 3 feet off the ground require additional personnel (up to 6 persons) to lift the heavy spa on its side through a doorway or up the stairs to a high deck.

Curb side Delivery

Your spa will be delivered by common carrier or freight truck to your home curbside. Independent delivery carrier will unload the spa from the truck and place it curbside next to a public street or highway. The driver IS NOT authorized to unwrap, set up or do installation. The driver will not move your spa to the backyard or place it inside your home. Make sure you look over your spa closely for any type of damage so the driver can note it on the delivery paperwork. If there is any sort of damage, please make a written note of it on the delivery documentation produced by the driver or if damage is extreme, call us for assistance to facilitate refusal of delivery.

Special Circumstances

The use of a crane for delivery and installation is necessary on occasion. If your spa delivery requires the use of a crane, the cost of a crane is not included in standard delivery service.



Plan the delivery route

Use the diagram to plan your delivery route. Consider the following when planning your delivery route:

Check the width of gates (#1), doors, steps (#2) and side-walks 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. (#3)

Are there protruding gas meters, water meters or A/C units on your home which will be an obstruction along the delivery path to your yard?

Are there low roof eaves, overhanging branches (#4) or rain gutters that could be an obstruction to overhead clearance?

Are there more than six (6) consecutive stairs without a landing in your delivery route?

5. Electrical Requirements before spa delivery

Important

When installed in the United States, the electrical wiring of this spa must meet the requirements of the National Electric Code (NEC) 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.

Electrical setup before delivery of your spa

1. All 240Volt spa's must be permanently connected (hard wired) to the power supply. Supplying power to the spa which is not in accordance with these instructions will void both the independent testing agencies listing and the manufacturer's warranty.
2. The power supplied to the spa must be a dedicated circuit with no other appliances or lights sharing the power.
3. To determine the current, voltage and wire size required for the spa configuration to be connected:
 - o Wire size must be appropriate per NEC and/or local codes. (Minimum #6 wire required)
 - o Wire size is determined by length of run from breaker box to spa and maximum current draw.
 - o Minimum #6 copper wire with THHN insulation.
 - o All wiring must be copper to ensure adequate connections. Do not use aluminum wire.

4. The electrical supply for the spa must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electric Code, ANSI/NFPA 70. The disconnecting means must be readily accessible to the spa's occupant but installed at least 10 feet from the spa water. Check with local municipalities for additional code requirements.

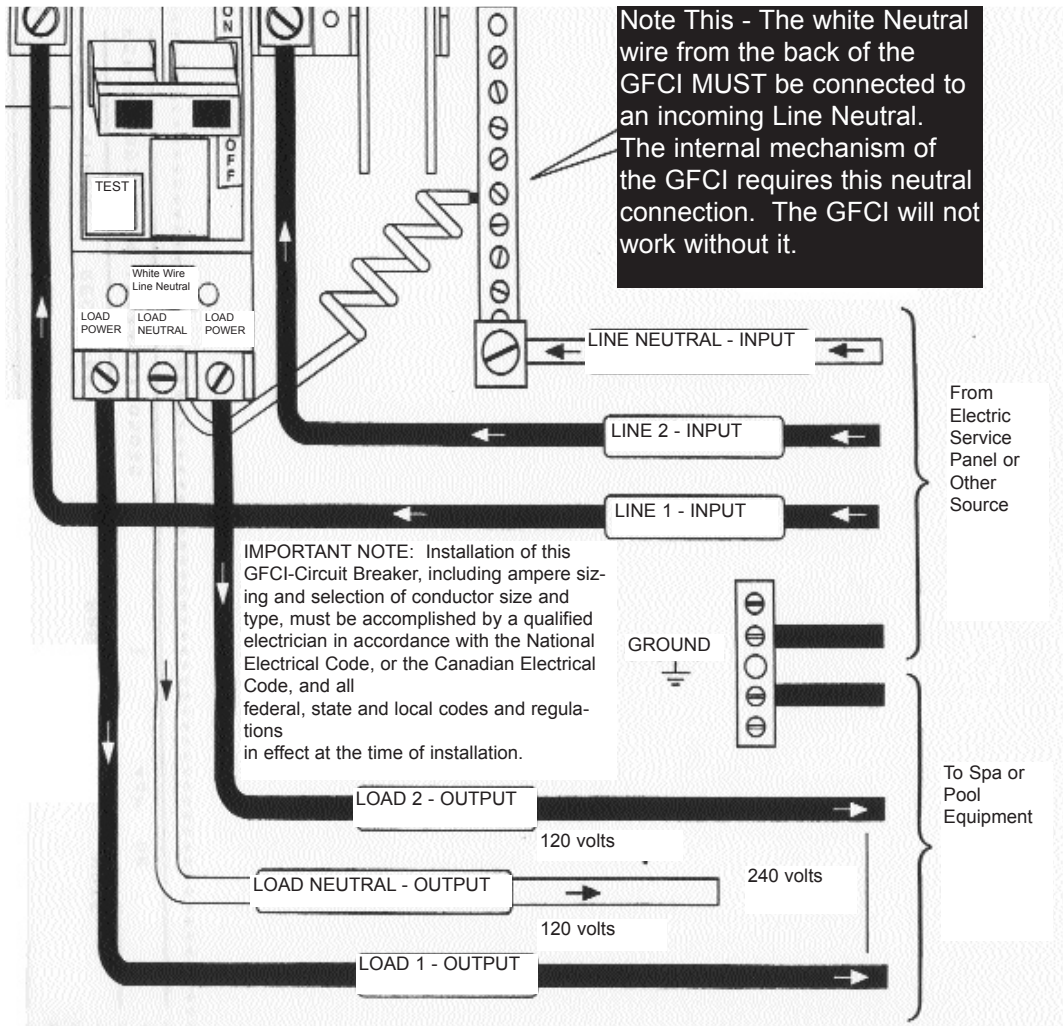
5. The electrical circuit for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42. Your spa requires a Neutrally Protected (GFCI) Ground Fault Circuit Interrupter, see the illustration on the following page for the proper wiring for your spa's GFCI.

Note: For 120 volt plug & play type spas, an external GFCI and 240v wiring is not needed as these spas are designed to plug into a dedicated 120v power outlet with the provided 15' GFCI power cord.

6. GFCI Wiring Diagram

This diagram shows a “Three Wire Plus Ground” installation. It has a load Neutral connection, commonly required for spa’s containing both 120 and 240 volt equipment. They need the load neutral connection to produce the 120 volt.

Siemens GFCI Breaker Box

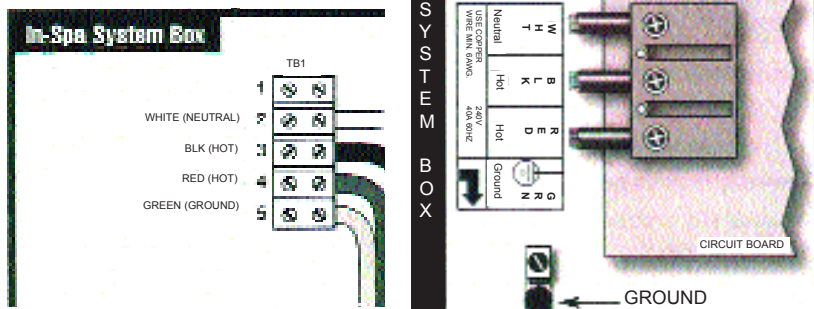


7. Electrical Installation of Spa after delivery

Important Safety notice for all models!

Proper grounding is extremely important.

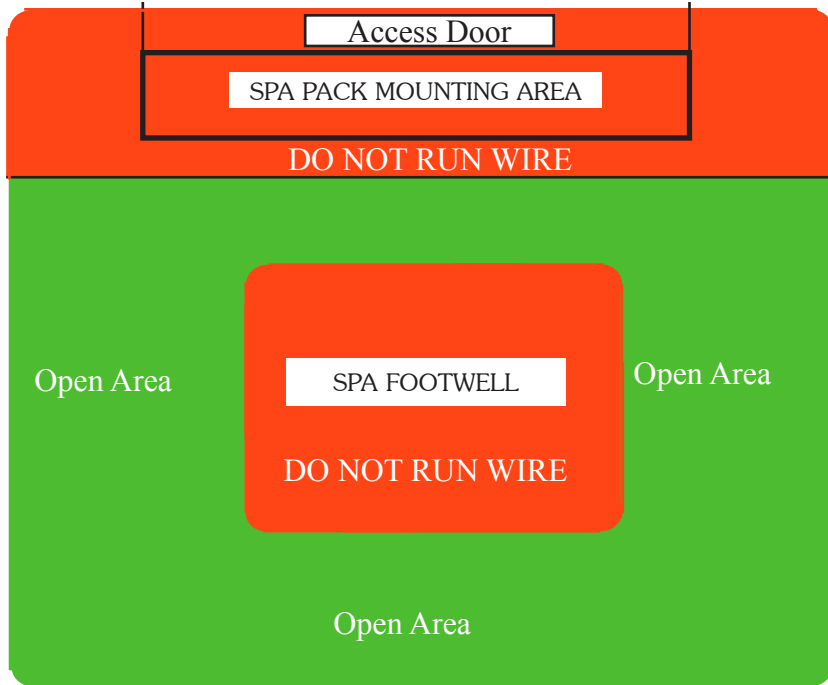
QC 8000
VS 300
VS 501
VS 515




1. To gain access to the spa's control box, remove the cabinet panel on the front of the spa, under the spas topside control. After removing the cabinet panel, remove the two control box cover screws and cover.
2. Select the power wire inlet through the spa cabinet you want to use. (Either drill a hole through the cabinet or run wire in conduit through the base of the spa.) Then feed the power cable through it to the left side of the control box.
3. Run power wire through the circular hole on the left side of the control box
4. Connect wires, color to color, into the terminal openings and tighten securely. Conncet ground wire to the ground terminal and tighen securely.
5. Secure the control box door by installing its screws, then re-install the cabinet panel under the topside control. Electrical installation is now complete.


QCA SPA'S WIRING PLACEMENT Through Base of Spa

FRONT OF SPA



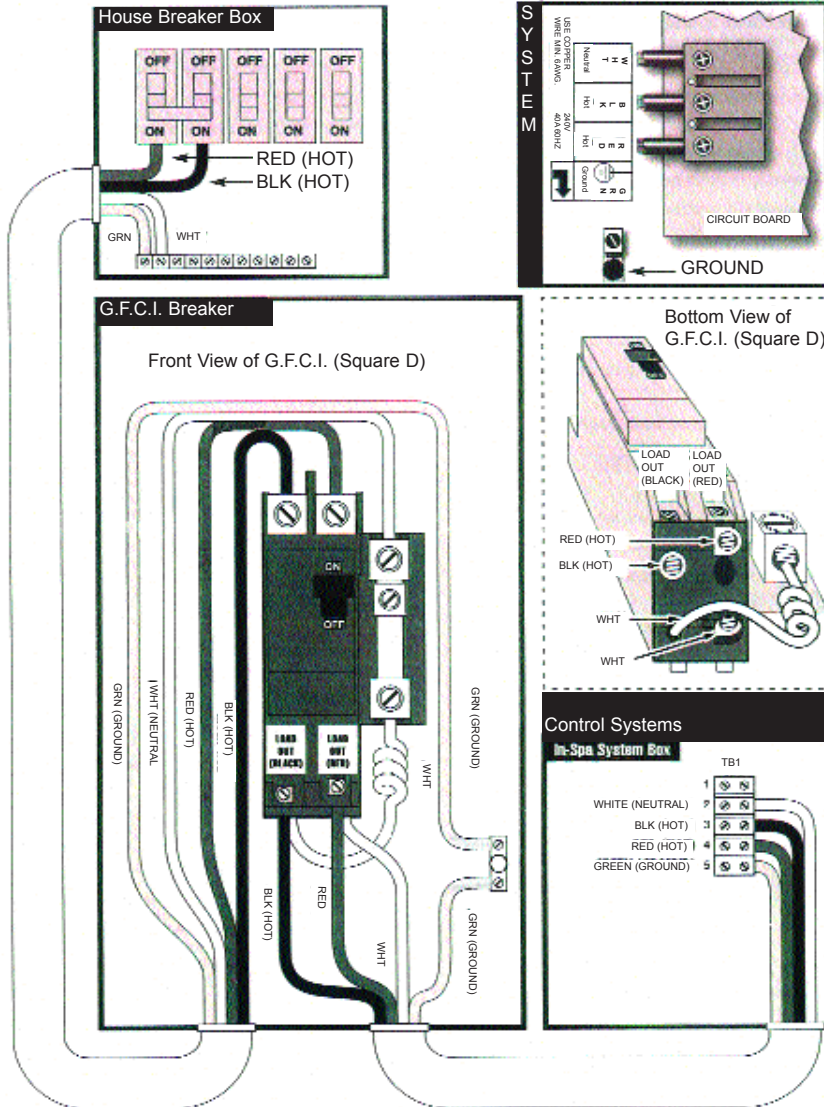
THIS VIEW IS THE BOTTOM SIDE OF THE SPA.

 Do Not Run Wire up Thru Botton of Spa

 Open Area Acceptable to run Wire Through Botton of Spa

*** Do Not Put Wires Through Footwell or Spa Pack Area**

Wiring Schematic



QCA SPA MODEL SPECIFICATIONS

Model Name	Outside Dimensions	Gallons	Dry Weight (lbs.)	Filled Weight (lbs.)	Power Voltage/amps
Dream Star	91"Lx42"Wx29"D	190	214	1734	120v/15amp
Mystic	80½"Lx56½"W"x30"D	240	309	2229	120v/15amp
Riviera	88"Lx60"Wx30"D	240	290	2210	120v/15amp
Star Gazer	80"Lx74"Wx30"D	300	473	2873	120v/15amp
Amethyst	81"Lx55"Wx29½"D	210	357	2067	240v/50amp
Cozumel	80"Lx74"Wx30"D	300	472	2872	240v/50amp
Ruby	82"Lx79"Wx36"D	400	540	4140	240v/50amp
Topaz	82"Lx79"Wx36"D	450	540	4140	240v/50amp
Garnet	87"Lx87"Wx40"D	550	681	5081	240v/50amp
Coral	87"Lx87"Wx40"D	510	681	4761	240v/50amp
Moonstone +3	92"Lx92"Wx40"D	630	803	6769	240v/50amp
GT-289	82"Lx82"Wx36"D	465	563	4283	240v/50amp
GT-305	82"Lx79"Wx36"D	465	563	4283	240v/50amp
GT-327	82"Lx79"Wx36"D	400	580	3780	240v/50amp
GT-350	82"Lx82"Wx36"D	420	580	5060	240v/50amp
GT-396	87"Lx87"Wx36"D	500	641	4641	240v/50amp
GT-454	87"Lx87"Wx36"D	475	624	4424	240v/50amp
GT-500	87"Lx87"Wx36"D	475	680	4680	240v/50amp
Cozumel Ultra	80"Lx74"Wx36"D	300	532	2932	240v/60amp
St. Maarten	82"Lx79"Wx40"D	425	598	4398	240v/60amp
St. Maarten XL	82"Lx79"Wx40"D	425	620	4420	240v/60amp
Grand Caymen	82"Lx79"Wx40"D	475	720	4520	240v/60amp
Grand Caymen XL	82"Lx79"Wx40"D	475	720	4520	240v/60amp
Aruba XL	96"Lx76¼"x40"D	475	723	4523	240v/60amp
Grand Bahama	87"Lx87"Wx40"D	510	840	4800	240v/60amp
Grand Bahama XL	87"Lx87"Wx40"D	510	840	4800	240v/60amp
Paradise	87"Lx87"Wx40"D	510	740	4820	240v/60amp
Paradise XL	87"Lx87"Wx40"D	510	740	4820	240v/60amp
Paradise Ultra	87"Lx87"Wx40"D	510	875	4955	240v/60amp
Paradise Ultra XLP	87"Lx87"Wx40"D	510	921	5005	240v/60amp
Paradise Supreme XLP	92"Lx92"Wx40"D	630	765	6449	240v/60amp
Paradise Supreme	92"Lx92"Wx40"D	630	765	6449	240v/60amp

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20

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