



[Check out the LifeSmart Spas channel on YouTube for helpful videos on spa ownership](#)



***OWNER'S MANUAL***  
***110V Models & 230V Models***

# Owner's Record

DATE PURCHASED:	
PURCHASED FROM:	
SPA MODEL:	
SERIAL NUMBER:	See page 7

Please read this "Owner's Manual" carefully, as it is designed to provide you with the information you will need to ensure the safe, secure use of your spa.

**IMPORTANT: LIFESMART** reserves the right to change specifications and/or design without notification and without any obligation.

## SPA DIMENSIONS

Model	Spa Seating	Length	Width	Height	Dry Weight	Water Capacity	Electrical 60Hz
LS100	4 person	5'10" (178 cm)	5'1" (155 cm)	32" (81 cm)	270 lbs (122 kg)	205 gal (776 lit)	110V
LS100DX	4 person	5'10" (178 cm)	5'1" (155 cm)	32" (81 cm)	270 lbs (122 kg)	205 gal (776 lit)	110V
LS100Plus	4 person	5'10" (178 cm)	5'1" (155 cm)	32" (81 cm)	270 lbs (122 kg)	205 gal (776 lit)	110V
LS200	4 person	6'5" (196 cm)	5'6" (168 cm)	29" (74 cm)	244 lbs (111 kg)	220 gal (833 lit)	110V
LS200DX	4 person	6'5" (196 cm)	5'6" (168 cm)	29" (74 cm)	244 lbs (111 kg)	220 gal (833 lit)	110V
LS300 Plus	3 person	6'0" (183 cm)	6'0" (183 cm)	31" (79 cm)	405 lbs (184 kg)	260 gal (984 lit)	110V
LS350DX	5 person	6'0" (183 cm)	6'9" (206 cm)	34" (86 cm)	351 lbs (159 kg)	315 gal (1,192 lit)	110V
LS350 Plus	5 person	6'0" (183 cm)	6'9" (206 cm)	34" (86 cm)	422 lbs (191 kg)	315 gal (1,192 lit)	110V
LS450DX	7 person	6'9" (206 cm)	6'9" (206 cm)	34" (86 cm)	440 lbs (200 kg)	270 gal (1,022 lit)	110V
LS500 Plus	5 person	7'3" (221 cm)	6'5" (195 cm)	34" (86 cm)	423 lbs (192 kg)	290 gal (1,098 lit)	110V
SERENO	4 person	6'3" (191 cm)	6'3" (191 cm)	34" (86 cm)	406 lbs (184 kg)	245 gal (927 lit)	110V or 230
TIERRA	5 person	7'3" (221 cm)	6'5" (196 cm)	34" (86 cm)	426 lbs (193 kg)	327 gal (1,238 lit)	230V
LEGANZA	6 person	7'3" (221 cm)	6'5" (195 cm)	34" (86 cm)	445 lbs (202 kg)	290 gal (1,098 lit)	230V
LS550 Plus	5 person	7'3" (221 cm)	6'5" (195 cm)	34" (86 cm)	445 lbs (202 kg)	290 gal (1,098 lit)	230V
LS600DX	7 person	6'8" (203 cm)	6'8" (203 cm)	34" (86 cm)	478 lbs (217 kg)	285 gal (1,079 lit)	230V
LS700DX	7 person	6'8" (203 cm)	6'8" (203 cm)	34" (86 cm)	582 lbs (264 kg)	285 gal (1,079 lit)	230V

**NOTE: All 110V models except for SERENO are Plug-In models Only and CAN NOT be converted!**

## **CAUTION**

**DO NOT OPERATE SPA BEFORE READING THIS MANUAL**

Failure to read this manual & follow its instructions may result in unsafe operation and or permanent damage to your portable spa.

Most cities, counties, states, and countries 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 the property to prevent unsupervised access to a pool or spa by children. Be sure to check with your local agencies for specific requirements.

If you need additional information and/or assistance, please contact Customer Service at (888) 961-7727 Ext. 8440

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# SAFETY INFORMATION

## **IMPORTANT SAFETY INSTRUCTIONS**

### **READ AND FOLLOW ALL INSTRUCTIONS**

#### **AVOIDING THE RISK TO CHILDREN**

##### **DANGER:**

- **RISK OF CHILD DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa unless they are supervised at all times.

##### **WARNING:**

- To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- To reduce the risk of injury, lower water temperatures are recommended for young children. Children are especially sensitive to hot water.

##### **DO:**

- Make sure you always lock the child resistant locks after using the spa for your children's safety. Every spa is equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers.
- Test the water temperature with your hand before allowing your child to enter the spa to be sure that it's comfortable. Children are especially sensitive to hot water.
- Remind children that wet surfaces can be very slippery. Make sure that the children are careful when entering or exiting the spa.

##### **DON'T:**

- Allow children to climb onto the spa cover.
- Allow children to have unsupervised access to the spa.

#### **AVOIDING THE RISK OF ELECTROCUTION**

##### **Risk of electrocution**

- Connect only to a grounded source.
- Do not bury the power cord. A buried power cord may result in death or serious personal injury due to electrocution if direct burial-type cable is not used, or if improper digging occurs.
- A ground terminal (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 10 AWG solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within 5 feet (1.5 m) of the unit as needed to comply with local requirements.

##### **WARNING:**

- To reduce the risk of electrical shock, replace a damaged cord immediately. Failure to do so may result in death or serious personal injury due to electrocution.
- Your 110V spa is provided with a Ground Fault Circuit Interrupter for user and equipment protection. To ensure proper operation of this important safety device, test according to the following instructions per electrical configuration.

# SAFETY INFORMATION

## **110 VOLT CORD-CONNECTED 15 AMP MODELS:**

- The GFCI is located at the end of the power cord. Before each use, with the unit operating, push the TEST button. The unit should stop operating and the GFCI power indicator will go out. Wait 30 seconds and then reset the GFCI by pushing the RESET button. The GFCI power indicator will turn on, restoring power to the spa. If the interrupter does not perform in this manner, there may be an electrical malfunction and with it, the possibility of an electric shock. Disconnect the power until the problem has been corrected. **NOTE: This will reset the filter cycle.**

## **230 VOLT, PERMANENTLY INSTALLED MODELS:**

- A ground terminal is provided on the control box. To reduce the risk of electric shock, connect this terminal to the grounding terminal of your electrical service or subpanel with a continuous green, insulated copper wire. The wire must be equivalent in size to the circuit conductors supplying the equipment. In addition, a bonding terminal (pressure wire connector) is provided on the outside of the control box for bonding to local ground points. To reduce the risk of electric shock, this connector should be bonded with a No. 8 AWG solid copper wire to any metal ladders, water pipes, or other metal within 5 feet (1.5 m) of the spa to comply with local requirements. The means of disconnection must be readily accessible, but must be installed at least 5 feet (1.5 m) from the spa.
- Your spa requires a suitably rated circuit breaker to open all ungrounded supply conductors.
- Your spa must have a ground fault circuit interrupter in an electrical subpanel. Before each use of the spa and with the unit operating, push the TEST button on the breaker. The switch should click over to the “Trip” position. Wait 30 seconds and reset the GFCI breaker by switching it completely off and then completely on. The switch should then stay on. If the breaker does not perform in this manner, it is an indication of an electrical malfunction and the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

**IMPORTANT:** Failure to wait 30 seconds before resetting the GFCI may cause the spa’s Power Indicator (on the control panel) to blink. If this occurs, repeat the GFCI test procedure.

## **DANGER: RISK OF ELECTRICAL SHOCK**

- Install spa at least 5 feet (1.5 m) from all metal surfaces. A spa may be installed within 5 feet (1.5 m) of a metal surface if each metal surface is permanently connected by a minimum No. 8 AWG solid copper conductor attached to the wire ground connector on the terminal box that is provided for this purpose if in accordance with National Electrical Code ANSI/NMFA70-1993.
- Do not permit any electrical appliances, such as a light, telephone, radio, or television within 5 feet (1.5 m) of a spa. Failure to maintain a safe distance may result in death or serious personal injury due to electrocution if the appliance should fall into the spa.
- Install your spa in such a way that drainage is away from the electrical compartment and from all electrical components.

## **DO:**

- Be sure your spa is connected to the power supply correctly - use a licensed electrical contractor.
- Disconnect the spa from the power supply before draining the spa or servicing the electrical components.
- Test the Ground Fault Circuit Interrupter before each use.

## **DON'T:**

- Use the spa with the equipment compartment door removed.



# SAFETY INFORMATION

## **DON'T:**

- Place electrical appliances within 5 feet (1.5m) of the spa.
- Use an extension cord to connect the spa to its power source. The cord may not be properly grounded and the connection is a shock hazard. An extension cord may cause a voltage drop, which will cause overheating of the jet pump motor and motor damage and void your warranty.
- Attempt to open the electrical control box. There are no user serviceable parts inside.

## **RISKS TO AVOID**

### **⚠ DANGER: RISK OF INJURY**

- DO NOT sit in the filter compartment area. Sitting in this area can cause:  
a) Restriction of Filter Pump suction/vacuum      b) Damage to components
- Both can result in bodily harm. Should damage occur to components in this area, replace immediately!

To reduce the risk of injury to persons, DO NOT remove floating weir, basket, and filter located in the filter compartment while the spa is running.

- The suction fittings in the spa are sized to match the specific water flow created by the pump. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
- There is a danger of slipping and falling. Remember that wet surfaces can be very slippery. Take care when entering or exiting the spa.
- Never operate spa if the suction fittings are broken or missing.
- People with infectious diseases should not use the spa.
- Keep any loose articles of clothing or hanging jewelry away from rotating jets or other moving components.

### **Increased side effects of medication**

- The use of drugs, alcohol or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- Persons using medications should consult a physician before using a spa; some medication may cause a user to become drowsy, while other medication may affect heart rate, blood pressure, and circulation.
- Persons taking medications which induce drowsiness, such as tranquilizers, antihistamines or anticoagulants should not use the spa.

### **Health problems affected by spa use**

- Pregnant women should consult a physician before using spa.
- Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using spa.

### **Unclean water**

- Keep the water clean and sanitized with correct chemical care. The recommended levels for your spa are:  
Free Available Chlorine (FAC): 3.0-5.0 ppm      Total Alkalinity: 40 - 120 ppm  
Water pH: 7.2 - 7.8      Calcium Hardness: 75 - 150 ppm

**IMPORTANT:** Turn jet pump on for at least ten minutes after adding ANY spa water chemicals into the filter compartment.

- Clean the filter cartridge monthly to remove debris and mineral buildup which may affect the performance of the hydromassage jets, limit the flow, or trip the high-limit thermostat which will turn off the entire spa.

# SAFETY INFORMATION

## **AVOIDING THE RISK OF HYPERTHERMIA**

Prolonged immersion in hot water can result in HYPERTHERMIA, a dangerous condition which occurs when the internal temperature of the body reaches a level above normal 98.6°F (37°C). The symptoms of hyperthermia include unawareness of impending hazard, failure to perceive heat, failure to recognize the need to exit the spa, physical inability to exit the spa, fetal damage in pregnant women, and unconsciousness resulting in a danger of drowning.

### **⚠ WARNING:**

The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

### **TO REDUCE THE RISK OF INJURY:**

- The water in the spa should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children. Extended use can cause hyperthermia.
- Pregnant or possibly pregnant women should limit spa water temperatures to 100°F (38°C). Failure to do so may result in permanent injury to your baby.
- Do not use spa immediately following strenuous exercise.

### **AVOIDING THE RISK OF SKIN BURNS:**

- To reduce the risk of injury, before entering a spa the user should measure the water temperature with an accurate thermometer.
- Test the water with your hand before entering the spa to be sure it's comfortable.

### **SAFETY SIGN**

A SAFETY SIGN is in the owner's package. The sign, which is required as a condition of Product Listing, should be permanently installed where it is visible to the users of the spa.

## **IMPORTANT SPA INSTRUCTIONS**

The following contains important spa information, and we strongly encourage you to read and apply them.

### **DO:**

- Use and lock the vinyl cover when the spa is not in use, whether it is empty or full.
- Follow the Spa Care and Maintenance recommendations stated in this manual.
- Use only approved accessories and recommended spa chemicals and cleaners.

### **DON'T:**

- Leave the spa exposed to the sun without water or the vinyl cover in place. Exposure to direct sunlight can cause solar distress of the shell material.
- Roll or slide the spa on its side. This will damage the siding.
- Lift or drag the cover by using the cover lock straps; always lift or carry the cover by using the handles.
- Attempt to open the electrical control box. There are no user serviceable parts inside. Opening of the control box by the spa owner will void the warranty. If you have an operational problem, carefully go through the steps outlined in the Troubleshooting section. If you are not able to resolve the problem, contact customer service at (888) 961-7727 Ext. 8440. Many problems can easily be diagnosed over the telephone by an Authorized Service Technician.

# INSTALLATION

## **PLANNING A LOCATION FOR YOUR SPA**

Consider these things when determining where to place your spa.

### **SAFETY FIRST:**

Make sure your spa is positioned so access to the equipment compartment and side panels will not be blocked. Be certain your installation will meet all city and local safety codes and requirements.

### **PLANNED USE OF SPA:**

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

### **PRIVACY:**

Think of your surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors when you plan the location of your spa.

### **VIEWS:**

Think about the direction you will be facing when sitting in your spa. Do you have a special landscape you will find enjoyable? Perhaps there is an area that has a soothing breeze during the day or a lovely sunset in the evening.

### **ENVIRONMENT:**

If you live in a climate with a snowy winter and hot summer, a place to change clothes or a house entry near the spa is convenient. A warmer climate may require shade from the hot sun. Consider placement of trees, shrubs, patio cover or perhaps a gazebo structure to provide what you will need. Indoor installations require adequate ventilation. When the spa is in use, considerable amounts of moisture are produced. This moisture can damage walls and ceiling surfaces over time. Special paint is available to resist moisture damage. Remember that spas periodically require drainage, so plan your environment accordingly.

### **KEEP CLEAN:**

Prevent dirt and foliage from being tracked into your spa by utilizing concrete for paths and access areas. Check the location of spill paths from gutters, trees, and shrubs.

### **SERVICE ACCESS:**

Many people choose to install tile or custom wood around their spas. If you are installing your tub with custom decorative trimming, remember to allow for access to it for service. Should you need service, a technician may need to remove the tub's door panel, or access it from beneath. It is always best to design special installations so the spa can still be moved, or lifted from the ground.

## **A GOOD FOUNDATION**

Your new spa needs a good solid foundation. The area your spa sits on must be able to support 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 shell or components.



# INSTALLATION

## ***BE AWARE:***

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

Make sure the foundation where the spa is placed drains water away from the spa. Proper drainage will keep components dry from rain and wet weather.

Your spa weight must always be considered when installing your spa. If you are installing it on an elevated wood deck or other structure, it is advisable to consult a structural engineer or contractor to ensure the structure will support the weight.

## **IT IS STRONGLY RECOMMENDED THAT A QUALIFIED, LICENSED CONTRACTOR PREPARE THE FOUNDATION FOR YOUR SPA.**

A reinforced concrete pad at least 4 inches (10 cm) thick is recommended for your spa. The reinforcing rod or mesh in the pad should be attached to a bond wire.

## ***INDOOR INSTALLATION:***

Be aware of some special requirements if you place your spa indoors. Water will accumulate around the spa, so flooring materials must provide a good grip when wet. Proper drainage is essential to prevent a build-up of water around the spa. When building a new room for the spa, it is recommended that a floor drain be installed. The humidity will naturally increase with the spa installed. Water may get into woodwork and produce dryrot, mildew, or other problems. Check for airborne moisture's effects on exposed wood, paper, etc. in the room. To minimize these effects, it is best to provide plenty of ventilation to the spa area. An architect can help to determine if more ventilation must be installed.

## ***PLACING THE SPA***

### ***CHECK THE DIMENSIONS OF YOUR SPA:***

Compare the spa 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. Also, keep in mind—if you are using special equipment to place your spa into an area it will be necessary to include those measurements and weights.

### ***PLANNING A DELIVERY ROUTE:***

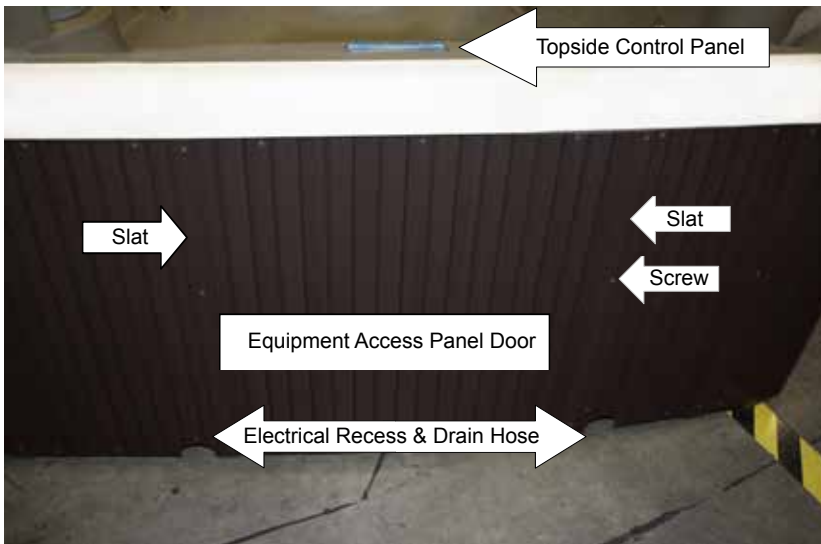
Check the width of gates, doors and sidewalks to make sure your spa will pass through unobstructed. You may have to remove a gate or part of a fence to allow for adequate width clearance. If the delivery route will require a 90-degree turn, check the measurements at the turn to ensure the spa will fit. Check for protruding gas meters, water meters, A/C units, etc., on your home which will cause obstructions along the delivery path to your yard. Check for low roof eaves, over hanging branches or rain gutters that could be an obstruction to overhead clearances.

### ***SPECIAL CIRCUMSTANCES:***

The use of a crane for delivery and installation is primarily to avoid injury to your spa, your property or to delivery personnel. Cranes are not considered "normal delivery".

# EQUIPMENT ACCESS

## EQUIPMENT ACCESS PANEL



To access the equipment compartment:

- Remove 1 vertical slat and screws on each side of Equipment Access Panel Door (on some spas).
- Remove screws from Equipment Access Panel Door or full front panel (on some spas) to remove door.
- Remove screws from Foam Door (if your spa has a Foam Door) to access Equipment Compartment.

**NOTE:** For spas without slats, remove the screws, then remove the door panel.

Serial Number



110 Volt  
Equipment Compartment



110 or 230 Volt  
Equipment Compartment

# ELECTRICAL REQUIREMENTS

## ***ELECTRICAL***

**⚠ DO NOT PLUG IN YOUR SPA WITHOUT FIRST FILLING WITH WATER!**

**⚠ DANGER – RISK OF ELECTRIC SHOCK**

Installations that do not conform to the following procedures and requirements may expose users to electric shock. Non-conforming installations will not be covered under warranty.

**Your electrical outlet must have been installed by an electrical contractor and been approved by a local building electrical inspection authority.**

### **110V ELECTRICAL**

1. Power supply installation must include a 15 amp dedicated, grounded wall outlet.
2. The outlet should not be shared with any other appliance. It must be labeled and easily accessible to users.
3. DO NOT use extension cords of any kind this will invalidate your warranty.
4. For your safety, if you are having an electrician install an electrical outlet for the spa it should be no closer than 5 feet (1.5 m) and no further than 10 feet (3 m) from the spa. [Reference National Electrical Code 680 - 6a(1) and 680 - 41a.]

**Note: If the manufacturer installed GFCI Cord is damaged, the GFCI Cord must be replaced by an authorized service personnel.**

### **230V ELECTRICAL**

1. Installations within 5 feet (1.5 m) of any metal surfaces must ground the metal surfaces to the hot tub. Use an 8 AWG solid copper wire and attach it to the grounding lug on the power pack, located in the equipment compartment.
2. Only a licensed electrician may install power to the spa.
3. Power supply installation must include a suitably rated ground fault circuit interrupter (GFCI) as required by NEC Article 680-42. The circuit breaker must be dedicated and should not be shared with any other appliances. It must be labeled and easily accessible to users.
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 5 feet (1.5 m) from the spa water.
5. Power supply lines must be hard wired into the power pack. DO NOT use extension or plug-type cords of any kind. The use of a shut-off box near the hot tub is also recommended. This box provides a quick and convenient method to shut off power to the hot tub for emergencies and maintenance.
6. Supply lines must be properly sized as per the NEC (National Electric Code). A ground line must be provided that is as large as the largest current carrying conductor, but no less than 8 AWG. All wiring must be copper to ensure adequate connections. Do not use aluminum wire.
7. Please open the front cover of the control box, and follow the instructions and wiring diagram printed on the backside.

## ELECTRICAL REQUIREMENTS

8. CAUTION, 230V POWERED SPAS – These spas must be hard wired to your household electrical service box only. Do not use an extension cord or any other disconnect able power cord. The use of an extension cord or a disconnectable power cord is highly dangerous and will void all warranties!
- Wire size must be appropriate per NEC and/or local codes.
  - Wire size is determined by length of run from breaker box to spa and maximum current draw.
  - THHN copper core wire only.
  - All wiring must be copper to ensure adequate connections. Do not use aluminium wire.

**⚠ CAUTION! WARNING! SHOCK HAZARD! No User Serviceable Parts.**

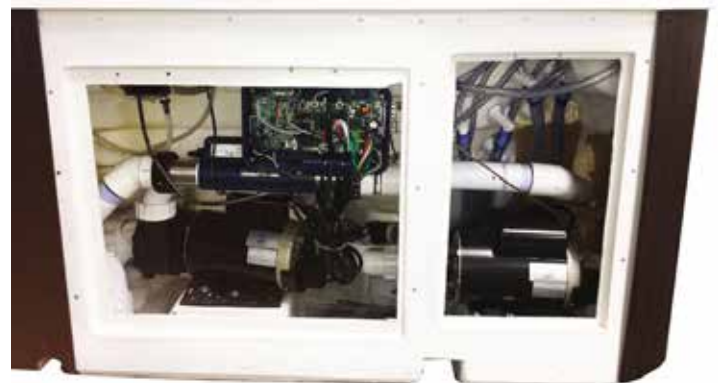
**Do not attempt to service any electronic component. Contact Customer Service or a reputable spa service company for assistance. Follow all owner's manual power connection instructions. Service must be performed by a licensed electrician and all grounding connections must be properly installed.**



Equipment access is below the Topside Control Panel on Plug & Play LifeSmart Spas.



Equipment access is below the Topside Control Panel on 230 Volt LifeSmart Spas.



**NOTE:** The LS700 has a second door that can be accessed if needed.

# ELECTRICAL REQUIREMENTS

## ***110 VOLT SYSTEM***

### ***110 VOLT INSTALLATION (CORD CONNECTED MODELS)***

All 110 Volt model spas come with a factory-installed power supply GFCI cord and are to be plugged into a grounded type 110 volt, 15 amp receptacle. No other electrical appliance or fixture can be used on this circuit.

Your 110 Volt spa **CAN NOT** be converted (except for the Sereno model)!

**IMPORTANT:** Under **NO** circumstances should an extension cord be used. Use of an extension cord will seriously degrade the performance of the equipment and can create an electrical hazard as well as void the warranty.

Once you fill the spa with water simply plug spa in to power up. **DO NOT** power up spa until it has been filled with water (see Fill Up and Start-Up Instructions) section on page 17.



# ELECTRICAL REQUIREMENTS

## CONVERTING THE SERENO MODEL (ONLY)

### SELECTING THE SUPPLY VOLTAGE FOR YOUR SERENO SPA MODEL

This spa is designed to operate at either 110V 15 amp; 110V 30 amp, or 230V 50 amp circuit.

- When the spa is setup for 110V 15 amp, the heater will provide approximately 1000 watts of heat only when the pump is operating in LOW speed and the thermostat is calling for heat (NOTE: The heater does not operate when the pump is on high speed).
- When the spa is connected to 110V 30 amp, the heater will provide approximately 1000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.
- When the spa is connected to 230 volts, the heater will provide approximately 4000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.

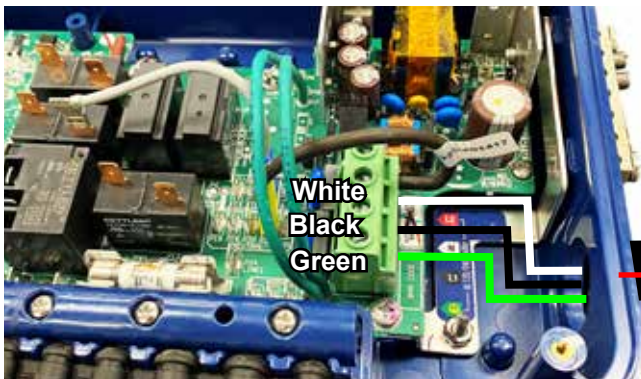
All electrical connections must be made in accordance with the wiring information contained on the electrical control box cover and the National Electrical Code.

#### 110 VOLT 30 AMP OR 230 VOLT 50 AMP (PERMANENT FIELD CONVERSION)

- A 110 volt, 30 amp configuration requires a 30 amp GFCI Subpanel box (not included).
- A 230 volt, 50 amp configuration requires a 50 amp GFCI Subpanel (not included)

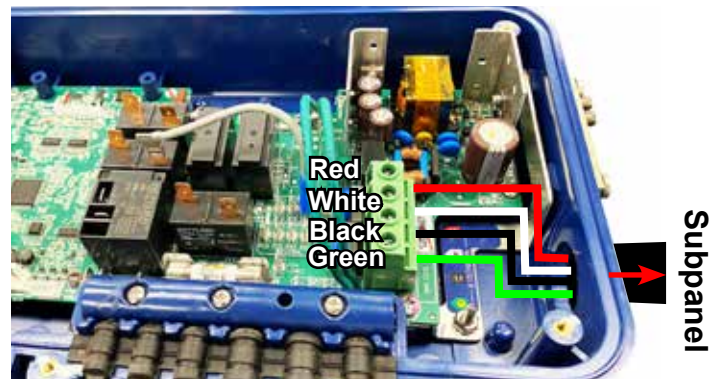
Either one of these installation requires a licensed electrician.

#### Field Converted 110V 30 AMP Control Box



To convert, remove the cord from the terminal block and replace with White, Black and Green #10 wires and connect to 30 amp GFCI Subpanel.

#### Field Converted 110/230V Control Box



To convert, remove the cord and brown jumper wire from the terminal block. Remove other end of brown wire from connector and remove from box. Place Red, White, Black and Green #8 wires onto terminal block and connect other end to 50 amp GFCI Subpanel.

**IMPORTANT:** After powering up the SERENO spa on 110V 30 amp or 230V 50 amp field conversions, a **program configuration is required**. Press and Hold JETS button for 30 seconds to access the Low Level (LL) settings on the control panel. Use the Temp button to change the setting from LL1 Factory Default (non concurrent heat and high speed) to LL2 (concurrent Heater and High Speed pump) configuration. Press the LIGHT button within 25 seconds to save the new program setting.



# ELECTRICAL REQUIREMENTS

## ELECTRICAL WIRING DIAGRAM FOR 230V USE

It is recommended that a licensed electrician install the power to your spa in accordance with the National Electric Code and/or any local electrical codes in effect at the time of installation.

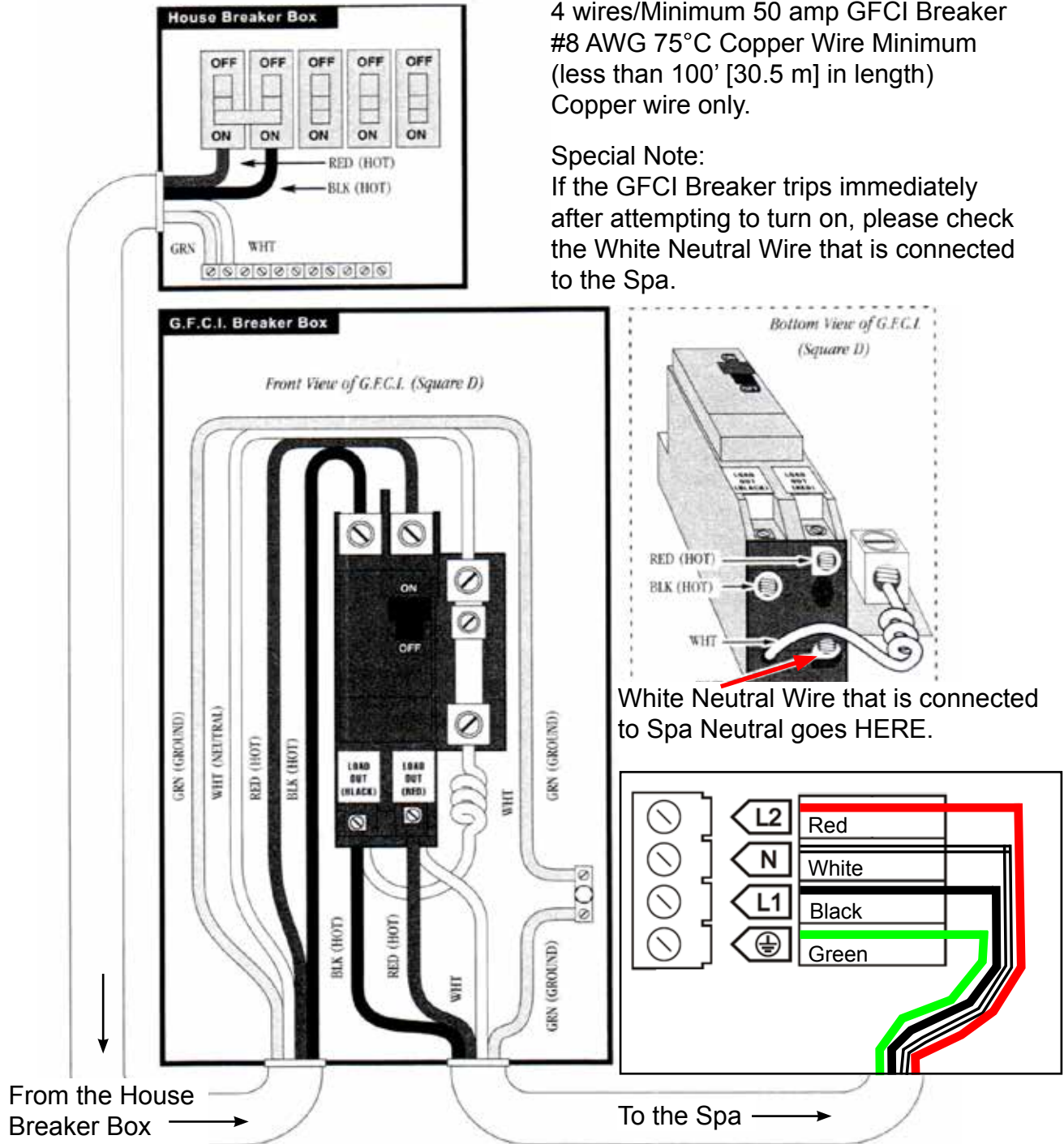
Power supply installation must include a properly rated GFCI circuit breaker. The circuit must be dedicated and should not be shared with any other appliances. The power supply must be hard wired into the power pack.

### 230V Wiring Instructions:

4 wires/Minimum 50 amp GFCI Breaker  
#8 AWG 75°C Copper Wire Minimum  
(less than 100' [30.5 m] in length)  
Copper wire only.

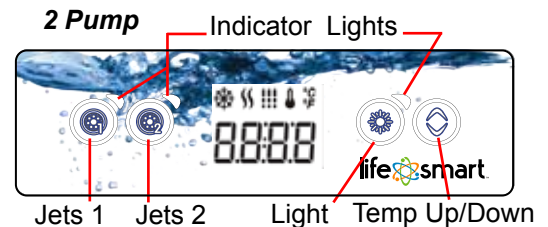
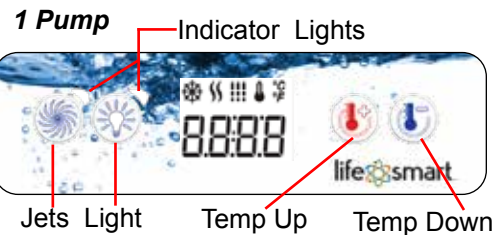
### Special Note:

If the GFCI Breaker trips immediately after attempting to turn on, please check the White Neutral Wire that is connected to the Spa.



## CONTROL PANEL OPERATION

**Initial start-up** - When the spa is first powered up, the control system begins a 2 minute Startup Mode. Different codes will display on the screen. Once Startup Mode completes, the actual temperature is displayed on the screen. The spa will then begin to heat and maintain the water temperature and the first filter cycle will start. Your spa has been designed so that it will automatically heat the water to the factory set temperature of 100°F (38°C) unless you set the spa to a different temperature. If power is disconnected from the spa, it will automatically revert back to the last saved set temperature when power is reapplied. Depending on your spa model you will either have a one pump or two pump control panel as illustrated.



### TEMPERATURE ADJUSTMENT

The temperature can only function between 80°F - 104°F (26.5°C - 40°C). The last measured temperature will constantly display on LCD.

**1 Pump Model** - Press the *Up* or *Down* buttons to display the set temperature and indicator . Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After five seconds, the LCD will automatically display the current spa temperature.

**2 Pump Model** - Press and hold the *Temp* button, the temperature will either go up or down. Release when desired temperature is achieved. If desired temperature is in the opposite direction, press and hold a second time to adjust the temperature and release when desired temperature is achieved.

The "Heat" indicator lights up when heating. It flashes when there is a request for more heat. Once set temperature is reached the indicator shuts off, on the 230 volt models only the low speed of the jet pump turns off after 30 seconds (if not in filter cycle).

### JETS OPERATION

**230 volt models:** Firmly press the *Jets (1)* button once to activate the low speed of the pump and again for the high speed. Firmly press the *Jets (1)* button again to turn off the pump. If left running the low or high speed pump will automatically turn off after 1 hour. The "Jets" indicator light above the button will blink when the jet pump is on low speed and is solid on high speed. On 2 pump models, press the *Jets (2)* button once to activate jet pump 2 on high and press a second time to turn jet pump 2 off unless in a filter or heat cycle.

**110 volt models:** Press the *Jets* button once to turn on the pump and a second time to turn off the pump.

### MULTI COLOR LED LIGHT

Press the *Light* button once to turn on the light, the light indicator next to the button is lit when the light is on. Press the button again to turn the light off. Every time the light is quickly turned off and on a new light mode will appear. The sequence is as follows: White, Full color wheel, Amber, Blue, Red, Green, Purple, color wheel 1, color wheel 2 and abrupt color wheel. The last light mode used will come back on when the light is turned off for more than 2 seconds.

**NOTE:** If left on, the light will automatically turn off after 4 hours of operation.

### FILTER CYCLES

There are two filter cycles: the first cycle (F1) starts right after power up and the second cycle (F2) will start 12 hours later. The default duration for the first filter cycle is 1 hour, and 30 minutes for the second cycle. Filter cycles (on 230 volt models) only run at low speed. The "Filter" indicator lights up when a filter cycle is on. The duration of each filter cycle can be modified.

# CONTROL PANEL OPERATION

## **ADJUSTING PRESET FILTER CYCLES**

Filter duration is programmable between 0.5 and 6 hours in 30 minute increments (0.5 hours) for both filter cycles. To program the cycle times:

1. Press and hold *Light* button for 5 seconds until F1 is displayed.
2. Press the *Up/Down* button to adjust the cycle time for F1.
3. Press the *Light* button to store the F1 cycle and move to the F2 cycle.
4. Press the *Up/Down* button to adjust the cycle time for F2.
5. Wait 15 seconds to allow the exit timer to expire and store the setting.

**IMPORTANT:** To reset the first filter cycle start time, skip step 5 and continue pressing the *Light* button until the actual temperature is displayed. Powering down of the spa will also reset the first filter start time.

**FILTER CYCLE SUSPENSION:** The filter cycle will be suspended every time a jet pump or light is activated manually during the filter cycle time. The suspension will end 10 minutes after the completion of the manual use. The jet pump will continue to run when the spa heater is on.

## **OPERATIONAL MODES**

The Standard Mode is the default operational mode preset from the factory.

**STANDARD MODE:** Is programmed to maintain the desired temperature with periodic water circulation (sampling) to sample water temperature and heat the water to the set temperature. Water sampling will turn the jet pump on and circulate the water for up to a couple of minutes.

**NOTE:** Freeze Protection (Smart Winter Mode) will assert as necessary during all modes.

The Following Three Modes are only used on **Sereno, LS550 plus & LS600DX** models.

**ECONOMY MODE** The spa will not heat. Water sampling only done during the filter cycle.

**SLEEP MODE:** The spa will only heat during the filter cycles. Water sampling only done during the filter cycle.

**QUIET MODE:** Keeps the jet pump from running (water sampling) after the F2 filter cycle is complete for up to 11.5 hours. You can set this mode between 0.5 hours and 11.5 hours in half hour increments.

To enter the programming screen and toggle between Standard, Economy, Sleep and Quiet Modes the following is required:

1. Press and hold the *Light* button for 5 seconds.
2. Press the *Light* button several times until St, Ec, SL, or nt is displayed.
3. Use the *Temp Up or Down* button to choose between the Modes.  
St = Standard Mode, Ec = Economy Mode, SL Sleep = Mode and nt = Quiet Mode.
4. Wait 15 seconds to allow the exit timer to expire and store the setting.

To Program the Quiet Mode the following is required:

Once in the nt mode, press the *Light* button then press the *Up/Down* button to change the amount of time you do not want the jet pump to come on between F2 and F1.

**OFF MODE:** This mode allows you to stop all spa functions for 30 minutes to perform quick spa maintenance. To place the spa in OFF MODE, press and hold the Jets (1) button for 5 seconds. The display will toggle between OFF and water temperature when in the OFF MODE. To stop the OFF MODE before the 30 minute cycle time is complete, simply tap (short press) the Jet button.

## CONTROL PANEL OPERATION

**ECONOMY MODE for LS700DX:** This mode allows you to lower the temperature set point of the spa by 20°F (11°C), to change to the Economy Mode press and hold *Light* button for 5+ seconds until F1 is displayed. Press the *Light* button several times until the display shows EP 1 or use *Down* button to disable economy mode, the display will show EP 0. Wait 15 seconds to allow the exit timer to expire and store the setting.

### **FAHRENHEIT/CELSIUS SETTING**

To change water temperature display to either Fahrenheit or Celsius, press and hold *Light* button for 5 seconds until F1 is displayed. Press the *Light* button several times until F or C °C is displayed. Press the *Up/Down* button to change. Wait 15 seconds to allow the exit timer to expire and store the setting.

## **DIAGNOSTIC LCD MESSAGE**

Message	Meaning	Action Required
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings will be preserved until next power up.
HL	The system has shut the heater off because the temperature at the heater has reached 122°F (50°C). Do not enter the water!	DO NOT ENTER THE WATER. Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system. If spa does not reset, shut off the power to the spa and call customer service at (888) 961-7727 Ext. 8440.
AOH	Temperature inside the equipment compartment is too high 194°F (90°C), causing the internal temperature in the control system to increase above normal limits.	Open equipment compartment and wait until error clears.
PRR	A problem is detected with the temperature probe.	Call customer service at (888) 961-7727 Ext. 8440.
OH	The water temperature in the spa has reached 108°F (42°C). Do not enter the water!	Remove the spa cover and allow the water to cool down to a lower temperature. Call customer service at (888) 961-7727 Ext. 8440. if problem persists.
UPL	No low level configuration software has been installed into the system.	Call customer service at (888) 961-7727 Ext. 8440.
FLO	No water flow is detected by the control system but flow is expected.	Make sure that the jet pump is running and water is flowing; check and clean filters; make sure water valves are open; make sure spa has a proper water level. If problem persists, call customer service at (888) 961-7727 Ext. 8440.

### **WARNING! DO NOT ENTER SPA IF WATER IS TOO HOT**

**Water is too hot.** Overheat protection heater is deactivated. Spa water temperature is above acceptable limits. When the actual water temperature is approximately 2° F (1° C) above the set temperature, the jet pump will stop operating to reduce (frictional) heating. If the spa water temperature continues to rise and gets above 108° F (42°C), the spa will go into an “OH” overheat condition.

## COMPONENT OPERATION

### **SPA COMPONENT OPERATION**

#### **AIR CONTROL VALVE**

The air control valve serves to regulate the amount of air mixed with the water when the jets are operational. Rotate the air control in one direction to achieve the maximum jet pressure and therapeutic action. Rotating the air control in the opposite direction to turn air off and allow the jets to work with water only. Turn the air controls off when the spa is not in use, this will prevent cold air from entering the spa and will keep heating cost to a minimum. The ozone jet (when equipped), will always produce air bubbles.

#### **DIVERTER VALVE (WHEN EQUIPPED)**

The diverter valve on your spa allows you to direct the flow of water from the pump to one of two combinations of jets. The function of the diverter valve can best be learned by experimentation. Turn the large valve all the way to one side or the other to see which jets are on.

#### **HYDROTHERAPY JETS**

The hydrotherapy jets are recessed in the wall of the spa. Rotate the jet face one direction or the other to turn the jets on or off. Not all jets have a rotational face to turn the jets on or off. Turning a jet on or off will increase or decrease the effects of any jets “not” in the closed position.

#### **OZONE GENERATOR (WHEN EQUIPPED)**

The ozone system greatly enhances the quality of the spa water when used to supplement the spa owner's regular water maintenance program. Contrary to some information circulated throughout the pool and spa industry regarding ozone systems, ozone **CAN'T** be used as a single-source sanitizer, water clarifier, anti-foamer, and mineral chelating agent. A secondary source sanitizer must be used to maintain 2.0 ppm (2.0 mg/L) of Free Available Chlorine (FAC). **LIFESMART** recommends that a chemical maintenance program based on recognized and documented industry standards still be followed when using an ozone purification system to assure water sanitation and the highest quality purified water.

#### **WATERFALL (WHEN EQUIPPED)**

If your spa has a waterfall, there will also be a control valve to operate the amount of flow through the waterfall from no flow to a steady stream. This valve will be located in various positions on the spa depending on the model and some models have the valve attached to the waterfall.

**Note:** The air control valve and the waterfall flow valve may look exactly the same, however; they are separate components.



## FILL UP AND START-UP INSTRUCTIONS

The following procedures should be followed on initial startup and whenever the spa is drained for routine maintenance.

### **FILLING THE SPA WITH WATER**

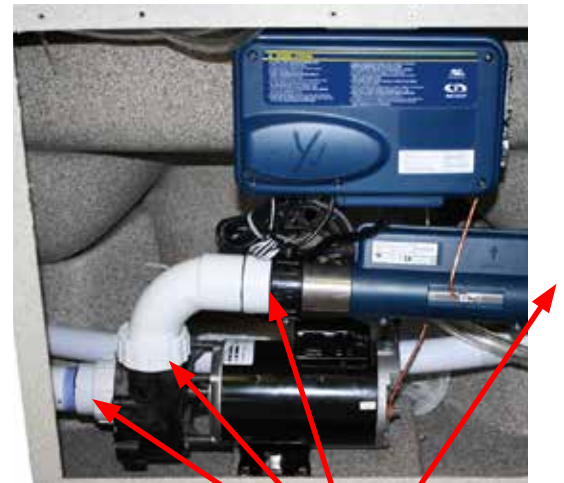
1. Clear all the debris from your spa.
2. Be sure to open all jets to allow as much air as possible to escape from the plumbing during the filling process.
3. Use a garden hose to fill your spa with water.

**NOTE:** Do not use hot or softened water.

4. As the water level rises, check inside the equipment compartment for water leaks. It may be necessary to tighten unions and/or fittings that may have loosened during delivery. There is no need to call for service; this can easily be done by you. If assistance is required, contact a customer service representative at (888) 961-7727 Ext. 8440
5. Under normal circumstances keep the water level half way between the top of the spa and grey filter ring or just above the highest jets (whichever is higher). Keep in mind that every person who enters the spa will create a certain amount of water displacement, depending on their size and weight; as a result you may need to reduce the amount of water you normally have in the spa. To prevent the water from hitting your topside control or flowing over the top edge of the spa. Additionally, failure to keep enough water in your spa may result in damage to your system & invalidate your warranty. If your spa filter is sucking in air causing the pump to cavitate, you need to add water!
6. Check the filter installation and make sure the filter is not loose.



**UNIONS**



**UNIONS**

### **APPLYING POWER**

1. Plug the spa into the 15 amp dedicated, grounded wall outlet, or turn on power from Main Panel and 230V Sub Panel.
2. Press the Jets button on the topside control panel to activate the spa. Rotate all the air control valves counterclockwise and observe the increased jet action.
3. While the pump is running, leaks may have occurred during transit. Check again for water leaks at the drain cap, unions, or fittings in the equipment compartment. If water is leaking from one of these areas, there is no need to call for service. Simply tighten the fitting. If assistance is required, call a customer service representative at (888) 961-7727 Ext. 8440.
4. After checking your spa for leaks it is now time to adjust your spa settings. Press the "Up" or "Down" button on your topside control panel until the display indicates your desired temperature is set.



# ADDING START-UP CHEMICALS

## WATER CHEMISTRY GUIDELINES

Spa water chemistry is ultimately the responsibility of the spa owner. Improper water chemistry may result in costly repairs not covered under the spa warranty. If unsure about any step in the process, please contact a Customer Care Associate at (888) 961-7727 Ext. 8440.

Initially, it is advisable to identify what minerals (e.g. iron) are present in the local source water. This will provide a better understanding of how to treat the water. Please follow the four steps below and be sure to achieve the correct levels in each area before moving onto the next step.

### **STEP #1: ESTABLISH PROPER PH LEVEL:**

The recommended range for pH is between 7.2 and 7.8. Above 7.8, the water is too alkaline and can result in cloudy water, and scale formation on the shell and heater. To lower the pH use a pH Down/Decreaser (sodium bisulfate). Below 7.0 (considered neutral), the spa water is too acidic and can damage the heating system. To increase pH, use a pH Up/Increaser (sodium hydrogen carbonate). Any pH Up or Down should be added one teaspoon at a time, waiting one-half hour between application and re-measuring.

### **STEP #2: MEASURE TOTAL ALKALINITY:**

The Total Alkalinity is the amount of bicarbonates, carbonates, and hydroxides present in the spa water. Proper total alkalinity is important for pH control. If the TA is too high, the pH is difficult to adjust. If the TA is too low, the pH will be difficult to hold at the proper level. The ideal range is between 40-120 parts per million (ppm). Reduce TA by using an Alkalinity Down/Decreaser (sodium bisulfate). Increase TA by adding an Alkalinity Up/Increaser (sodium bicarbonate or sodium hydrogen carbonate). These products should be added in small amounts – a teaspoon at a time. After adding a teaspoon, wait one half hour before re-measuring. Once the safe range of total alkalinity is established, proceed to the next step.

### **STEP #3: DETERMINE CALCIUM HARDNESS:**

It is important to bring the calcium reading between 75-150 ppm. If the reading requires adjustment, it should now be corrected. If the water is too soft (a low reading) calcium hardness should be added to the water to increase the ppm reading. If the water is too hard (a high reading), it can be corrected by either: (A) a mixture of hard and soft water added to attain a reading in the safe range, or (B) addition of stain and scale control. If calcium hardness is a problem with the local source water (either too hard or too soft) a test kit, which measures calcium hardness, is essential.

### **STEP #4: SANITIZING:**

After steps 1-3 are complete, **the spa must be sanitized using Chlorine (sodium dichlor)**. Add 2 teaspoons of Chlorine, and increase as necessary to reach a level of 3-5 ppm. Check and maintain this level weekly, and before and after using the spa. **IMPORTANT NOTE:** *A granulated sodium dichlor is highly recommended for sanitizing spa water, granular bromine may also be used. Never use compressed sanitizers even with a floater. As with any other chemicals, the sanitizer should be introduced to the spa with the jets running a minimum of 10 minutes.*

### **WEEKLY SHOCK:**

Using a potassium monopersulfate (MPS) shock, add approximately 2 oz. (60 ml) into the filter bucket while the jets are running. Shocking is achieved by adding the MPS to turbulent water. Leave the cover off and jets on for 10 minutes. Then shut jets off and return the cover to the closed position to maintain heat.

## SPA MAINTENANCE

### ***FILTER CARTRIDGE MAINTENANCE***

Every month, the filter cartridge should be cleaned to remove the objects and particles that have lodged in the cartridge pleats. Using household water pressure and a garden hose with a pressurized nozzle, push water from inside to outside of the pleats, forcing all the trapped particles out.

**NOTE:** Never run your spa without a filter cartridge!!! This will invalidate your warranty.

**NOTE:** Filter cartridges should be replaced every six to eight months or earlier when needed. Dirty filters can cause your spa pump to burn out and will invalidate your warranty.

### ***FILTER CARTRIDGE REMOVAL AND CLEANING INSTRUCTIONS***

Spa uses a screw in filter cartridge that is easily removed.

- Turn off the power to the spa.
- Push down slightly and turn filter basket counter clockwise to unlock, then pull the basket and weir out.
- Unscrew the filter cartridge counter clockwise and bring it out of the spa (requires many turns).
- Rinse cartridge using a garden hose. Rotate and separate filter pleats while spraying water to remove all dirt and debris possible. Let filter dry and look for calcium deposits (scaling) or an oil film. If you find these, you will need to deep clean your filter cartridge with a “spa filter cleaner” solution to break down and remove unwanted deposits and oils. (For longer filter life you should soak filter in solution regularly.)

**CAUTION!** Always use proper eye protection when using chemicals, or high-pressure water. Read instructions on cleaning products and follow applicable safety and warning instructions listed on label.

**CAUTION!** Never scrub the filter cartridge with a brush, as this will cause the filter to wear out and come apart. Never let the spa pump run without a filter cartridge in the skimmer compartment. Running the spa without a filter cartridge may permit debris to enter the spa plumbing and void the warranty!

- Replace filter cartridge, then return basket and weir, insert and rotate clockwise to lock into position. **DO NOT OVERTIGHTEN!**
- Turn spa’s power back on.



**IMPORTANT:** Damage caused by dirty, clogged, or calcified filters; damage to the spa surface caused by improper use of chemicals to lie on the surface; damage caused by improper pH balance, improper calcium hardness level or other improper water chemistry is not covered under the spa warranty.

# SPA MAINTENANCE

## ***SURFACE CARE***

Do not use solvents or abrasive cleaners to clean the spa. Typically, a mild detergent and water will resolve cleaning issues.

## ***COVER CARE***

Please keep your cover free from dirt at all times. Use a cover cleaner or a warm mild soapy water to clean the surface. Do not use any silicone-based products, as it will dry and may eventually crack the vinyl.

NOTE: Do not stand on the cover at any time. Remove the cover when adding chemicals to your spa. This will extend the life of your cover. The gases from burned off chemicals will be trapped under the cover, if not removed. These gases will eat away at the protective lining of the foam inserts. This will not be covered under warranty.

## ***CABINET CARE***

Little maintenance is required to keep your spa cabinet looking good.

Spa cabinet product should be cleaned as needed to remove dirt and debris.

- NO abrasive or harsh chemicals should be used on your spa's cabinet.
- NO solvents or cleaners containing aromatic solvents should be used on your spas cabinet.
- Hot soapy water is the best choice for cleaning your spa's cabinet.

## **AVOID PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR EXCESSIVE TEMPERATURES**

100°F (38°C) to avoid your spa cabinet from buckling.

## ***SPA LED LIGHT REPLACEMENT***

- Turn OFF the power to the spa.
- Remove the equipment compartment access door.
- Locate the rear of the spa light.
- To remove the LED, turn outside housing counter clockwise ¼ turn, and pull out and remove LED from socket.
- Replace the LED by reversing the above steps.



## DRAINING OR WINTERIZING

Every three to six months, depending upon the water condition, you need to renew your water.

### **CAUTION:** READ THIS BEFORE DRAINING YOUR SPA

- To prevent damage to the spa's components, unplug the spa from the outlet or turn off breaker (230V) before draining. **Do not power up your spa until your spa has been refilled with water.**
- There are certain precautions to keep in mind when draining your spa. If it is extremely cold, and the spa is outdoors, freezing could occur in the plumbing or the equipment.
- Do not leave the spa's shell (inside surface) exposed to direct sunlight.

### **DRAINING YOUR SPA**

DO NOT PUT SPA INTO STANDBY MODE. STANDBY MODE DOES NOT APPLY WHEN DRAINING SPA.

- If draining for the first time. Pull the drain hose out a few inches from the spa (located in the recess under the spa, just below the equipment access door).
- Unscrew and remove the drain cap.
- Attach drain hose to a garden hose and direct to an appropriate draining area, keeping the hose below the water line.
- After your spa is empty, clean the shell and filter cartridge. See "Spa Maintenance"
- After cleaning, remove garden hose, replace drain cap and push the hose back into the recess.
- Follow the "Fill up and Start-up Instructions".



### **WINTERIZING YOUR SPA**

If you plan to store your spa for the winter, you must also use a wet-vac to clean out the water lines to ensure they are free of any water. Water left in the lines might freeze and damage the lines and jets.

1. It will be necessary to remove all water from the interior plumbing.
2. Remove the floating weir, basket, and filter cartridge. Clean the filter cartridge and store in a dry place. Attach the vacuum hose to the **vacuum side** of the shop vac and thoroughly dry the filter compartment.
3. Using the shop vac, remove the water starting with the jets at the top and moving downward. **NOTE:** When removing the water from jet openings, you may notice suction coming from another jet. With the help of a second person, block off any suction from the other jet using a large rag or cloth. This will help pull out the water that is trapped deep inside the main line.
4. Thoroughly dry the spa shell with a clean towel.
5. Using a funnel, pour Propylene glycol anti-freeze into the filter suction fittings and jet outlets. **CAUTION: Use only Propylene glycol as your anti-freeze. This is non-toxic. NEVER use automobile anti-freeze since it is toxic.**
6. Remove the pump drain plug located on the front of the pump housings. Allow all water to drain out. Place the drain plug in a reclosable plastic storage bag and store near the pump. Replace the drain plugs on start-up.
7. Unscrew the suction/discharge pump and heater unions and allow the water to drain. Leave union loose. **NOTE:** Tighten unions before filling spa.
8. Replace the equipment compartment door and secure with screws. **Note:** Damage caused by improper winterizing will not be covered under warranty. You may want to contact a professional for proper winterizing.

## TROUBLESHOOTING PROCEDURES

In the event your spa is not working the way it should, please first review all the installation and operating instructions in this manual and check the message on the panel display. If you are still not satisfied it is working properly, please follow the appropriate troubleshooting instructions.

### **CAUTION! WARNING! SHOCK HAZARD! No User Serviceable Parts.**

Do not attempt service of the control box. Contact customer service for assistance. Follow all owner's manual power connection instructions.

### ***NO COMPONENT OPERATION***

Check the following:

1. Is there power to the spa?
2. Is the household circuit breaker tripped?
3. Is the GFCI at the end of the spa's power cable tripped?
4. If 1 is yes and 2 and 3 are no contact customer service for service.

### ***PUMP DOES NOT OPERATE, BUT THE LIGHT ICON DOES***

Press the JETS button:

The pump operates but no water flows to jets. Pump may not be properly primed. This can happen after the spa is drained and refilled. Press the JETS button several times, never leaving the motor on for more than 5-10 seconds at-a-time, if prime is still not achieved, loose unions (pg. 16) to allow trapped air to escape then tighten.

### ***POOR JET ACTION***

1. Press the JETS button to make certain the pump is on.
2. Rotate the air control to the "max" position.
3. Make sure the water level is at least 2" (5 cm) above the gray filter ring.
4. Check for dirty filter. Clean, if necessary.
5. Make sure all jets are in the open position.

### ***WATER IS TOO HOT***

1. Check desired temperature on topside control
2. Check for a diagnostic Message (see Control System manual for details)

**OH** - Overheat (spa is deactivated) **DO NOT ENTER THE WATER.**

If the spa water has reached overheated you should remove the cover to promote heat reduction. The spa Control System should reset itself when the water temperature reduces below 107°F (43°C). When the spa falls below the reset temperature you can push any button on the topside control to reset the Control System. If the spa will not reset, then shut off power to the spa and call customer service.

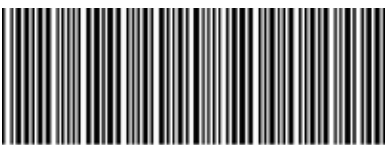
Under extreme and/or prolonged weather conditions it is possible for the ambient temperature to exceed 107°F (43°C), therefore; effecting the water temperature of the spa and causing it to overheat. These conditions could cause the spa sensors to produce an OH message and prevent the usage of your spa during these conditions. The location of your spa should be reconsidered to reduce the outside temperature around the spa. For example, you may need to prevent direct sunlight on any surface of your spa. Regardless, do not enter your spa if the temperature is above 104°F (40°C).

Should checking the above steps fail to correct the problem, please contact Customer Service at (888) 961-7727 Ext. 8440.









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