



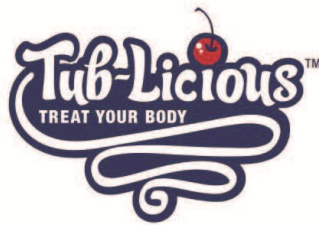
— 2018 —  
**OWNER'S MANUAL**

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## CONGRATULATIONS!

YOU'RE ALMOST READY TO ENJOY YOUR NEW SPA!

**! PLEASE READ YOUR ENTIRE OWNER'S MANUAL BEFORE SPA OPERATION !**

### Basic Information

#### Water Care

**IMPORTANT:** Caring for your water by ensuring proper chemical usage is the single most important thing you can do to keep your hot tub in good condition.

**WARNING:** Improper chemical usage and maintenance will quickly lead to severe issues with your spa and can effect the spas equipment, jets, pumps and all other components in contact with the spa water. **All hot tubs and swim spas are susceptible to damage from unbalanced spa water.**

Always maintain your spa's water chemistry within the following parameters:

pH	7.2 - 7.8
Chlorine	1.0 - 3.0 ppm
Bromine	2.0 - 5.0 ppm
Total Alkalinity	100 - 120 ppm
Calcium Hardness	150 - 250 ppm

#### Electrical

**All self contained spas use 120VAC or 240VAC electrical spa packs.**

**120VAC:** Requires an isolated 15 Amp circuit breaker, an isolated circuit with no other appliances or lights on the circuit at any time. Extension cords are not to be used in conjunction with the operations of the spa. Low voltage damage could result and this is not covered by warranty.

**IMPORTANT: Hot Tubs with 110V means that the jets and heater will not work at the same time.**

*NOTE: All components must be 120V. No 240V components allowable.*

**240VAC:** Depending on the model of spa, it will require either a 40, 50 or 60 Amp dedicated circuit breaker with the proper wire size (gauge) based on the length of the run.

**The electrical circuit must be installed by a certified electrician and approved by a local building or electrical inspector.**

#### Surface

Your new portable spa must be placed on a firm, flat and level surface, so the spa weight is supported uniformly. We recommend no less than a 3" (93 mm) thick concrete slab. Wood decking or balconies must be constructed to support 150 pounds per square foot (730 kg/m<sup>2</sup>). Refer to local and current building codes in your area. Consult an engineer for live loads in your area. Should your new spa need to go through a gate or space-restrictive area, ensure you've communicated those limitations with your dealer to avoid delivery complications.

*NOTE: Damage caused by alternate decking methods may avoid the spa warranty. Contact your dealer if you have any questions regarding spa location or placement.*

#### Transport

Your new spa has left the factory cleaned and polished and ready to begin operation after passing our many quality and operational tests. However, depending on your location in the world, your spa may have spend days or even weeks in transit before arriving at your home. Please ensure that before filling or operating your hot tub that you check all electrical and plumbing connections are securely connected in the equipment area as they might have loosened during shipping. If any dirt has accumulated, you will want to remove with a clean cloth or sponge using warm water.



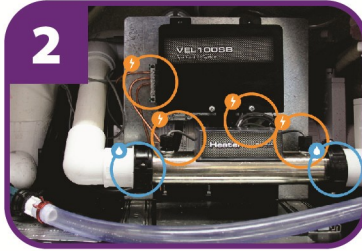
# START UP GUIDE

## PREP FOR FILLING

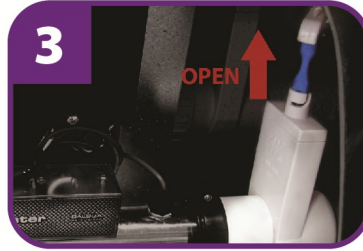
**!** PLEASE READ ALL INSTRUCTIONS BELOW BEFORE FILLING THE SPA



**1** Using a cloth and water, wipe away any dirt/dust collected from transport. Ensure all jets are open by turning the face counter clockwise.



**2** Ensure all plumbing and electrical connections are securely connected and tightened as they can come loose during transit.



**3** Ensure that any gate/knife valves are fully open.



**4** Remove floating weir and basket from filter assembly.



**5** Remove filter by turning counter-clockwise. Remove plastic filter transport bag.

## FILLING YOUR SPA

**!** DO NOT USE HOT WATER TO FILL YOUR SPA

**!** DO NOT USE WATER FROM A WATER SOFTENER



**1** Place fill hose into open filter canister and fill spa until water is 5" (12.5cm) from the top "lip" of the hot tub.



**2** When filled all massage jets should be under water (approx. 5 inches from top of spa). Remove fill hose from filter canister.



**3** Re-install filter by screwing into canister clockwise.

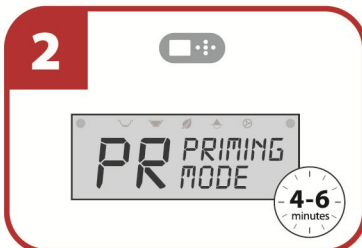


**4** Re-install floating weir and basket assembly.

## POWERING UP YOUR SPA



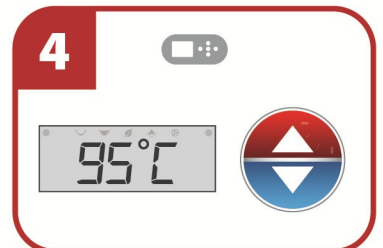
**1** Turn power on at the main breaker.



**2** PR - Priming Mode: Your spa will now run a diagnostic test. Do not press any buttons while test is running (4 - 6 minutes).



**3** Once test is complete, you will see the temperature display on your hot tub control panel.



**4** Set your hot tub temperature. Get ready to enjoy!



## IMPORTANT SAFETY INSTRUCTIONS

### READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

**DANGER:** Risk of Injury. The suction fittings in this hot tub are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the hot tub if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

**DANGER:** Risk of Accidental Drowning. Do not allow children to be in or around the spa without adult supervision. Keep the spa cover on and locked when not in use. See instructions enclosed with the cover for locking procedures.

**DANGER:** Risk of Electrical Shock. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 422-20 of the National Electrical Code, ANSI/NFPA 70. The disconnect must be readily accessible and visible to the hot tub occupant but installed at least 5 feet (1.5 m) from the hot tub water.

### READ, FOLLOW AND SAVE THESE INSTRUCTIONS

- a) A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the symbol \* is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment.
- b) At least two lugs marked "Bonding Lugs" are provided on the external surface or on the inside of the supply terminal box compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
- c) All field-installed metal components such as rails, ladders, drains or other similar hardware within 5 feet (1.5 m) of the hot tub shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG.

**WARNING:** To Reduce the Risk of Injury: The water in a hot tub 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 young children and when hot tub use exceeds 10 minutes. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit hot tub water temperatures to 100 °F (38 °C). If pregnant, please consult your physician before using a hot tub. Before entering the hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices may vary as much as +/- 5 °F (2 °C). Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using a hot tub.

**CAUTION:** Risk of Hyperthermia: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the

normal body temperature of 98.6 °F (37 °C). The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows:

- Unawareness of impending hazard;
- Failure to perceive heat;
- Failure to recognize the need to exit hot tub;
- Physical inability to exit hot tub;
- Fetal damage in pregnant women; and
- Unconsciousness and danger of drowning.

**WARNING:** Children should not use hot tubs without adult supervision.  
**WARNING:** Do not use hot tubs unless all suction guards are installed to prevent body and hair entrapment.

**WARNING:** People with infectious diseases should not use a hot tub.

**WARNING:** To avoid injury, exercise care when entering or exiting the hot tub.

**WARNING:** Do not use drugs or alcohol before or during the use of a hot tub to avoid unconsciousness and possible drowning. The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs.

**WARNING:** Pregnant or possibly pregnant women should consult a physician before using a hot tub.

**WARNING:** Water temperature in excess of 38 °C (100 °F) may be injurious to your health. Before entering the hot tub, measure the water temperature with an accurate thermometer.

**WARNING:** Do not use a hot tub immediately following strenuous exercise.

**WARNING:** Prolonged immersion in a hot tub may be injurious to your health.

**WARNING:** Do not permit electric appliances (such as lights, telephone, radio, television, etc.) within 5 feet (1.5m) of this hot tub unless such appliances are built-in by the manufacturer.

**WARNING:** People using medication and/or having an adverse medical history should consult a physician before using a spa or hot tub.

**CAUTION:** Observe a reasonable time limit when using the hot tub. Long exposures at higher temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning.

**CAUTION:** Enter and exit the hot tub slowly. Wet surfaces can be very slippery.

**CAUTION:** Proper chemical maintenance of hot tub water is necessary to maintain safe water and prevent possible damage to hot tub components. Maintain water chemistry in accordance with manufacturer's instructions.

**CAUTION:** Use the straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the hot tub and keep the hot tub cover secure in high-wind conditions. There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the hot tub.

**CAUTION:** For exercise, the water should not exceed 90 °F (32 °C).

**CAUTION:** When using this electrical equipment, basic safety precautions should always be followed.

**PREPARATION AND SET-UP FOR YOUR NEW SPA  
LOCATION FOR YOUR NEW SPA:**

- You want to keep in mind how you intend to use the spa and plan the location accordingly.
- How close is the spa from the exit or entrance to your house? (consider the cold weather)
- Is the path to your spa clean of debris, sand, grass? (so as not to track into the spa)
- Is there protection from wind, inclement weather?
- Can neighbors or passersby see the spa?

**NOTE: Allow for service access:** Many spa owners enjoy placing their spa in a decorative enclosure or a deck. Keep in mind that you need to have access to the equipment for maintenance and the spa should be able to be moved or lifted without destroying the special enclosure or its surroundings. You should discuss this with your dealer when designing the location. Extension cords are not to be used in conjunction with the operations of the spa. Low voltage damage could result and this is not covered by warranty. **NOTE:** All components must be 120V; No 240V components allowable.

**240VAC:** Depending on the model of spa, it will require either a 40 Amp, 50 Amp, or 60 Amp dedicated circuit breaker, GFCI, with the proper wire size based on the length of the run. The electrical circuit must be installed by a certified electrician and approved by a local building or electrical inspector.

**ELECTRICAL REQUIREMENTS**

All self contained spas use 120VAC or 240VAC electrical spa packs.. These instructions describe the only acceptable electrical wiring procedures. Spas wired in any other way will void your warranty and may result in serious injury. All installations should be completed by a certified electrician. Failure to comply with state and local codes may result in fire or personal injury and will be the sole responsibility of the spa owner.

**120VAC:** This requires an isolated 15 Amp circuit breaker. This needs to be an isolated circuit with no other appliances or lights on this circuit at any time. Extension cords are not to be used in conjunction with the operations of the spa. Low voltage damage could result and this is not covered by warranty. **NOTE:** All components must be 120V; No 240V components allowable.

**240VAC:** Depending on the model of spa, it will require either a 40 Amp, 50 Amp, or 60 Amp dedicated circuit breaker, GFCI, with the proper wire size based on the length of the run. The electrical circuit must be installed by a certified electrician and approved by a local building or electrical inspector.

**SURFACE AND PAD REQUIREMENTS**

Your new portable spa must be placed on a firm, flat and level surface, so the spa weight is supported uniformly. We recommend no less than a 3" (93 mm) thick concrete slab. Wood decking or balconies must be constructed to support 150 pounds per square foot (730 kg/m<sup>2</sup>). Refer to local and current building codes in your area. Consult an engineer for live loads in your area. Should your new spa need to go through a gate, the opening should be a minimum of 48 inches and up to 8.5' overhead clearance depending on the size of the unit.

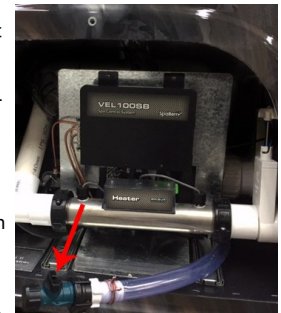
**NOTE:** Damage caused by alternate decking methods may void the spa warranty. Contact your local dealer if you have any questions regarding spa location or placement.

**DRAINING AND WINTERIZING**

**DRAINING YOUR SPA**

After a period of 3-4 months, detergent residues from bathing suits and soap film will build up in your spa water. Once this happens, your spa water will appear cloudy and should probably be replaced.

- Turn power OFF at the breaker.
- Locate the drain valve (usually in the equipment area).
- Remove the safety cap and attach garden hose.
- Drain water to a convenient area. (Spa water may harm grass or plants if sanitizer levels are high.)
- When water begins to flow out of the hose, open the air relief valve located on filter lid or Air Bleeder Valve (Skim Filtration)
- Your spa will drain except for a small portion left in the foot well. This can be removed with a sponge and pail.
- Once empty, clean as required.
- To finish, remove garden hose and attach safety cap.



**WINTERIZING YOUR SPA**

In many areas of the world the temperature may drop below 32°F (0°C). We recommend the spa is always filled with water and running at normal spa temperatures. By doing this you will minimize the risk of freezing within your spa. If it is necessary to leave your spa unattended for long periods of time during cold weather conditions, you should drain your spa to avoid accidental freezing caused by power outages. Your local dealer can perform the following winterizing procedures, if you are not completely comfortable with them.

- Ensure that you have fully drained the spa (Refer to the DRAINING YOUR SPA section)
- After draining, your spa may still have water remaining in the equipment and plumbing fittings. Disconnect the hand-tightened union fittings going to and from the jet pumps. Be careful not to lose the o-rings between the unions and pump housing.
- Leave drain valve in the open position and safety cap off .
- To completely drain the plumbing lines, a wet/dry shop vacuum can be used to draw out any remaining water. Place the vacuum hose over the jet fittings in the

spa as well as the plumbing lines in the equipment area. You should also disconnect the plug on the crystal clear inspection tube (if installed)

- Remove the filter cartridge and store in a warm, dry area.
- Clean the spa shell and place spa cover on spa. Be sure to lock the cover in place in case of high winds or rain.

**WARNING:** The instructions above should be followed accordingly when winterizing your spa however they are guidelines and potential freeze damage may still occur. All freeze damage is the sole responsibility of the spa owner and will not be covered by the warranty should it occur.

**EMERGENCY SITUATIONS:** To eliminate freezing in the event of equipment failure, use a 100-watt light bulb or small heater via extension cord and place it in the equipment area, keeping it away from plumbing lines. This will help for a short period of time until proper service can be rendered.

**FILTER MAINTENANCE**

The spa filter is one of the most important maintenance items of a hot tub. The filter is there to remove debris from the water and needs to be cleaned on a regular basis. Failure to do so may result in poor performance, poor water clarity and could prevent the spa from heating. Filtration starts as soon as flow is steady through the filter. As the filter cartridge removes the debris from the spa water, the accumulated debris causes flow resistance.

**WATER QUALITY MAINTENANCE**

Maintaining the quality of the water within the specified limits will serve to enhance your enjoyment and prolong the life of the hot tub's equipment. It is a fairly simple task, but it requires regular attention because the water chemistry involved is a balance of several factors. There is no simple formula, and there is no avoiding it. An indifferent approach to water maintenance will result in poor and potentially harmful conditions for soaking and even damage to your hot tub investment. The most important thing to keep in mind is that *preventing* poor water chemistry is much easier than *correcting* poor water chemistry. For specific guidance on maintaining water quality, consult your Authorized Dealer who can recommend appropriate chemical products for sanitizing and maintaining your hot tub.

**FILTER CLEANING**

Always turn off the power to the Spa before cleaning the filter cartridge. Your Spa is equipped with one top access filter cartridges. We recommend that you clean the filter every month as preventative maintenance. Remember to power down the spa before removing the filter. To clean the skimmer filter cartridge, lift out center float of the skimmer assembly. Turn the top of the center float counterclockwise to access basket area. Rinse away any large debris.



1. Remove the filter cartridge outer lock ring by turning counterclockwise and then lift up to remove it. Lift the center float up and out to expose the filter

2. Remove the filter cartridge by turning the cartridge counterclockwise 2-3 rotations. Lift cartridge out of the canister.



3. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridges in cartridge cleaner, rinse it thoroughly, and reinstall. After cleaning, run the pump for a few minutes at high speed then return to the heating mode.

**MAINTAIN HEALTHY SPA WATER**

**Important!** When maintaining your hot tub's water chemistry, ensure that your cover is removed during any aggressive treatments to allow for dissipation into the air. Take care to remove the cover slowly and let chemicals deplete if you are uncertain if your water is properly balanced. ***Always maintain your hot tub's water chemistry within the following parameters:***

**pH:** pH is a measure of relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic. In hot tub water, it is very important to maintain a slightly alkaline condition of 7.2 to 7.8. Problems become proportionately severe the further outside of this range the water gets. A low pH will be corrosive to metals in the hot tub equipment. A high pH will cause minerals to deposit on the interior surface (scaling). In addition, the ability of the sanitation agents to keep the hot tub clean is severely affected as the pH moves beyond the ideal range. That is why almost all hot tub water test kits contain a measure for pH as well as sanitizer.

**Sanitizer (Chlorine or Bromine):** To destroy bacteria and organic compounds in the hot tub water by breaking them down into non-harmful levels which get filtered out. A sanitizer must be used regularly, either chlorine or bromine. Sanitizing your spa water is the most important spa maintenance you can do for yourself.

**Total Alkalinity:** This refers to the ability of the hot tub water to resist changes in pH. Controlling alkalinity can help keep your pH in the appropriate range thereby lessening the need for pH balancing. If the TA is too low the pH level will fluctuate rapidly from high to low. If the TA is too high the pH will tend to be too high and will be very difficult to bring back down.

**Calcium Hardness:** This is a measurement of dissolved calcium in the water. Calcium will help control the corrosive nature of the spa's



water.

**WARNING:** Never store chemicals inside the equipment area of your spa.

**IMPORTANT:** Do not use Hydrogen Peroxide based sanitizers in your spa. When using Chlorine or Bromine tablets you must use a floating dispenser. These chemicals can have an extremely corrosive effect on certain materials in the spa. Damage caused by use of these chemicals, or improper use of any chemicals, is not covered under the spa's warranty.

**OTHER ADDITIVES:** Many other additives are available for your spa. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your Authorized Dealer can advise you on the use of these additives.

### BASIC INSTALLATION AND CONFIGURATION GUIDELINES

#### Warning! Qualified Technician Required for Service and Installation

Use minimum 6AWG copper conductors only. Torque field connections between 21 and 23 in lbs. Readily accessible disconnecting means to be provided at time of installation. Permanently connected power supply. Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of sight from the equipment compartment.

#### CSA ENCLOSURE: TYPE 2

Refer to Wiring Diagram inside the cover of the control enclosure. Refer to Installation and Safety Instructions provided by the spa manufacturer.

**Warning:** People with infectious diseases should not use a spa or hot tub.

**Warning:** To avoid injury, exercise care when entering or exiting the spa or hot tub.

**Warning:** Do not use a spa or hot tub immediately following strenuous exercise.

**Warning:** Prolonged immersion in a spa or hot tub may be injurious to your health.

**Warning:** Maintain water chemistry in accordance with the Manufacturers instructions.

**Warning:** The equipment and controls shall be located no less than 1.5 meters horizontally from the spa or hot tub.

#### WARNING! GFCI OR RCD PROTECTION.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

#### WARNING! SHOCK HAZARD! NO USER SERVICEABLE PARTS.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power

connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

- Disconnect the electric power before servicing. Keep access door closed.

#### CSA COMPLIANCE

##### Caution:

- Test the ground fault circuit interrupter before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked.

##### Warning:

- Water temperature in excess of 38°C may be injurious to your health.
- Disconnect the electrical power before servicing.





**WATER CLARITY TROUBLESHOOTING**

PROBLEM	PROBABLE CAUSE	POTENTIAL SOLUTIONS
<b>Water Odor</b>	<ul style="list-style-type: none"> <li>• Improper sanitization</li> <li>• Excessive organics in water</li> <li>• pH is too low</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Add sanitizer</li> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Adjust pH</li> </ul>
<b>Chlorine Odor</b>	<ul style="list-style-type: none"> <li>• Chloramines are too high</li> <li>• pH is too low</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Adjust pH</li> </ul>
<b>Musty Odor</b>	<ul style="list-style-type: none"> <li>• Bacteria or Algae growth</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Drain and refill spa water</li> </ul>
<b>Scale</b>	<ul style="list-style-type: none"> <li>• Total alkalinity is too high</li> <li>• pH is too high</li> <li>• High calcium content in water</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adjust total alkalinity</li> <li>&gt; Adjust pH</li> <li>&gt; Use stain and scale product</li> </ul>
<b>Stains</b>	<ul style="list-style-type: none"> <li>• Total alkalinity is too low</li> <li>• pH is too low</li> <li>• High metal content in water</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adjust alkalinity</li> <li>&gt; Adjust pH</li> <li>&gt; Use stain and scale product</li> </ul>
<b>Cloudy Water</b>	<ul style="list-style-type: none"> <li>• Poor filtration</li> <li>• pH is too high</li> <li>• Hardness is too high</li> <li>• Total alkalinity is too high</li> <li>• Suspended particles</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Clean filter cartridge</li> <li>&gt; Adjust pH</li> <li>&gt; Adjust hardness</li> <li>&gt; Adjust total alkalinity</li> <li>&gt; Drain and refill spa water</li> </ul>
<b>Algae Growth</b>	<ul style="list-style-type: none"> <li>• pH is too high</li> <li>• Sanitizer is too low</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adjust pH</li> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Adjust sanitizer level</li> </ul>
<b>Eye Irritation</b>	<ul style="list-style-type: none"> <li>• pH is too low</li> <li>• Sanitizer is too low</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adjust pH</li> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Adjust sanitizer level</li> </ul>
<b>Skin Rash/Irritation</b>	<ul style="list-style-type: none"> <li>• Free chlorine level too high</li> <li>• Unsanitary water</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Adjust chlorine level</li> <li>&gt; Shock spa with sanitizer</li> <li>&gt; Adjust sanitizer level</li> </ul>



## PRODUCT & CARE GUIDE

Your Authorized Dealer carries a wide variety of care and maintenance products. For more information please contact your Dealer.

### REQUIRED FILTER MAINTENANCE

Your new hot tub is equipped with a filter cartridge. To ensure maximum water quality at all times, you should replace the filter cartridge every six months, or earlier as necessary. The filter cartridge is designed to be thrown away! Attempts to re-use the filter cartridge may result in the re-release of unwanted particles back into the hot tub.

### REQUIRED WATER REPLACEMENT

You should replace the hot tub's water every 3-6 months. The frequency will depend on a number of variables including frequency of use, number of bathers and attention paid to the water quality maintenance. You will know it is time for a change when you can no longer get the normal feel or sparkle to the water, even though the key water balance measurements are all within the recommended ranges.

### HEADREST / PILLOW CARE

The pillows can be removed for easy cleaning and maintenance. All pillows have plugs within the pillow itself. To remove the pillow, grab the bottom edge firmly and pull outward. This will allow the pillows to pop out from the receptacle in the spa shell. To reinstall the pillow you will align the pillow plug with the receptacle. Press/hit the front side of the pillow firmly, which will insert the plug back into the receptacle.

- **Proper water chemistry must be maintained. Your hot tub pillows are easily and quickly damaged when exposed to unbalanced spa water.** If you suspect that your chemicals may be unbalanced, remove your pillows immediately until the water has been restored to suggested conditions.
- Do not sit on the pillows
- Do not pull on the pillows
- Pillows should be cleaned using a soft cloth and mild soap, then wiped with a conditioner. We recommend that pillows be washed each time you drain your spa.

This Limited Warranty is void if failure is caused by accident, acts of nature, acts of God, or other causes beyond the control of CSMI. Neglect, misuse and abuse include any installation, operation, or maintenance of the spa other than in accordance with the instructions contained in the owner's manual provided with the spa, including, but not limited to damage caused by operation outside the range of 34 degrees Fahrenheit and 116 degrees Fahrenheit or 1 degree Celsius and 47 degrees Celsius .

Please be advised that the Spa Warranty will become void if Coast Spas or any of its selling or servicing agents determines that the spa has been exposed to Hydrogen Peroxide, TriChlor or any substance using it as an ingredient proven to be dangerous to the Spa. Any condition arising from the use of Hydrogen Peroxide or TriChlor on the Spa is not a warrantable defect.

### HOT TUB INTERIOR

Your hot tub has a fiberglass reinforced acrylic shell. Generally dirt and stains will not adhere to the surface. To properly clean the surface, we recommend wiping it with a soft damp cloth (or sponge) using a low sudsing household soap or liquid detergent and rinsing thoroughly with fresh water. Stubborn dirt or stains may be removed by using Spic & Span adequately dissolved in water. Contact your dealer and inquire about maintenance packages.

**DO NOT** use any cleaning products containing abrasives or solvents, since these could damage the surface. Harsh chemicals should never be used on acrylic surfaces. Damage to the shell due to the use of harsh chemicals is not covered under the warranty.

**DO NOT** leave your hot tub drained and in direct sunlight for extended periods of time. Extreme heat could cause damage to the acrylic surface and may induce an effect known as "crazing".

### STAINLESS STEEL CONTROLS AND COMPONENTS ABOVE THE WATER LINE

To preserve the stainless steel finish of the controls and components above the water line, we recommend they be wiped with a dry soft cloth after each use of your hot tub. In addition, off-gas your tub by removing the cover for approximately 30 minutes multiple times per week (if not in use) and after every shock treatment.

### COVER CARE

A well cared for spa cover is a thing of beauty in its own right. Be sure to clean and condition your cover at least once a month – more often if needed. Your cover needs to be cleaned and conditioned because vinyl can be dry and become brittle, spoiling your spa's appearance. Dry, brittle vinyl can also tear at the seams and stress points. Quality materials, internal sewn reinforcing and careful workmanship can only go so far against the ravages of Mother Nature. See the specific Warranty card enclosed with your cover for further details.

- When you shock your spa you need to remove the cover for a minimum of 30 minutes to ensure that the chemical gas off can escape from the spa.
- You are required to keep the spa covered at all time when not in use to protect the shell from harmful UV rays.
- A covered spa will use less electricity when maintaining the desired water temperature
- See the manual that comes with the cover for proper mounting of the cover locks
- The cover should remain locked at all times to prevent unauthorized entry into the spa and potential drowning.
- Do not Sit, Stand or Lie on your cover. Nor should you place any heavy object on top of the cover as this may damage the structure.

**VERY IMPORTANT:** We recommend a vinyl conditioner for your spa cover. Your local dealer carries a wide variety of care and maintenance products. Choose a pleasant day each month to remove your cover from the spa and lay it on a flat surface accessible by garden hose. Douse the cover with a healthy amount of water from the hose or a bucket to rinse away loose dirt or debris. Using a soft bristle brush and a mild solution of dishwashing liquid (about one teaspoon of detergent to two gallons of water), and with a gentle circular motion, scrub the cover clean. Be care-



ful not to let any areas of the cover dry before they're thoroughly rinsed. Now apply the vinyl conditioner as directed on the container. Massage the conditioner into the cover in a gentle but firm manner. Before replacing the cover on your spa, wipe and rinse any dirt from the bottom of the cover. When you are ready, put the cover on the spa.

**NOTE:** To remove tree sap, use lighter fluid (not charcoal lighter but the fluid used in cigarette lighters). Use sparingly, then immediately apply conditioner to that area.

### GLOSSARY OF TERMS

**AIR CONTROL VALVE:** Mounted generally on the lip of the spa, it induces warm air from the equipment enclosure into the jet stream through venturi action.

**ON/OFF DIVERTER VALVE:** The smaller diverter is used to control water flow and to turn on/off the neck jets and/or waterfalls.

**OZONATOR:** Available as an option. The ozonator produces natural ozone through the Corona Discharge process. Continuous use of an ozonator can dramatically reduce sanitizer consumption.

**CONTROL BOX (Pack):** Basically the "heart" of the spa. Power is distributed to any/all functions of the spa: pumps, ozonator, LED lighting, heater element, etc.

**CONTROL PANEL:** Mounted on the top lip of the spa and controls the functions of the spa.

**DRAIN VALVE:** Used in draining of the spa. Normally located in the equipment area.

**EQUIPMENT ENCLOSURE:** An enclosure that houses the control box, pump(s) and other electrical components.

**FILTER:** The filter cleans the spa by passing water through a filter cartridge where debris and impurities are removed. Top load filter means the filter cartridge is accessible through the top of the spa. Front access skimmer means cartridge is accessed through door of skimmer.

**FLOOR DRAIN:** The floor drain is covered by a grate-type cover and is utilized when draining the spa. It also acts as the return for the ozonator. You will see bubbles emitted from this drain, which is the result of water mixing with the ozone output.

**KNIFE VALVES:** A white "T"-handled valve, same functions as Gate valve (see above), except to open them you pull up on handle.

**HEATER:** The electronically controlled heater raises the temperature of the spa to the desired setting.

**LEDs:** LEDs and their special lenses can be used to achieve the desired mood lighting in the spa and spa jets.

**SUCTION FITTING:** During operation of the equipment, the suction works in conjunction with the skimmer to draw water from the bottom of the spa through the filter, keeping the spa sparkling clean.

**ADJUSTABLE CLUSTER JET:** Our adjustable, high-intensity hydrotherapy jet.

**DIRECTIONAL JET:** Provides a straight flow for a therapeutic massage

**ROTATIONAL JET:** Provides a Uni-directional circular therapeutic massage.

**MESSAGE JET:** Delivers massage in staccato bursts over a narrow, focused area.



**TROUBLESHOOTING GUIDE**

**SPA SYSTEM**

SYMPTOM	PROBABLE CAUSE	RECOMMENDED ACTION
<b>Spa does not work</b>	<ul style="list-style-type: none"> <li>Power is turned off</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Reset GFCI</li> </ul>
<b>No display on the control panel</b>	<ul style="list-style-type: none"> <li>Power is turned off</li> <li>Defective topside control</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Reset GFCI</li> <li>&gt; Contact your Dealer</li> </ul>
<b>Letters on the control panel</b>	<ul style="list-style-type: none"> <li>An error has been found</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Refer to the Reference Card for your control panel to verify the error. Contact your Dealer for service</li> </ul>

**PUMP PROBLEMS**

SYMPTOM	PROBABLE CAUSE	RECOMMENDED ACTION
<b>Noisy/Loud motor</b>	<ul style="list-style-type: none"> <li>Air trapped in the pump</li> <li>Low water level</li> <li>Worn pump seal</li> <li>Defective pump</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Open bleed valve in the skimmer</li> <li>&gt; Add water to the spa</li> <li>&gt; Contact your Dealer</li> <li>&gt; Contact your Dealer</li> </ul>
<b>Pumps power down on their own</b>	<ul style="list-style-type: none"> <li>Set temperature has been reached</li> <li>Filtration cycle has ended</li> <li>Automatic time out</li> <li>Overheat safety protection</li> </ul>	<ul style="list-style-type: none"> <li>&gt; No problem</li> <li>&gt; No problem</li> <li>&gt; Pumps are set to run for a predetermined time while the spa is in use (15-20 Mins)</li> <li>&gt; The pumps have a thermal overload which will prevent them from running for extended periods of time. Wait until pumps have cooled down (1+ hrs). If problem persists, contact your Dealer.</li> </ul>
<b>Pump running constantly, will not turn off</b>	<ul style="list-style-type: none"> <li>Filter cycle set to 24 hours</li> <li>Problem with the circuit board</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Turn off 24 hour filtration</li> <li>&gt; Turn power off at GFCI and contact your Dealer</li> </ul>
<b>Pump will not turn on</b>	<ul style="list-style-type: none"> <li>GFCI tripped</li> <li>Motor has overheated</li> <li>Not plugged in</li> <li>Damaged plug</li> <li>Seized motor</li> <li>Blown fuse</li> <li>Motor vent is blocked</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Reset the GFCI</li> <li>&gt; Let cool for 1+ hour</li> <li>&gt; Plug in to the board</li> <li>&gt; Contact your Dealer</li> <li>&gt; Contact your Dealer</li> <li>&gt; Check fuse or contact your Dealer</li> <li>&gt; Clear debris from the vent</li> </ul>



<b>HEAT PROBLEMS</b>	<b>PROBABLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
<b>Water will not heat</b>	<ul style="list-style-type: none"> <li>• Error message on control panel</li> <li>• Spa is in a different Heat Mode</li> <li>• Water level is too low</li> <li>• Poor water flow</li> <li>• Closed valves</li> <li>• Pump 1 is not running</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Refer to the Reference Card for your control panel to verify the error</li> <li>&gt; Set spa to "Standard Mode"</li> <li>&gt; Add water to the spa</li> <li>&gt; Clean filter &amp; check valves</li> <li>&gt; Open all valves</li> <li>&gt; Contact your dealer</li> </ul>
<b>Water is too hot</b>	<ul style="list-style-type: none"> <li>• Incorrect reading</li> <li>• Filter cycle duration is too long</li> <li>• Pump speeds reversed</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Verify temperature with thermometer</li> <li>&gt; Reduce duration of the filter cycle</li> <li>&gt; Contact your dealer</li> </ul>
<b>Water will not maintain heat</b>	<ul style="list-style-type: none"> <li>• Cover is off for extended periods of time in cold weather / cold wind.</li> <li>• Hot tub is wired for 110V and jets are on.</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Put cover back onto hot tub and allow for heat to regenerate. Call your dealer if temperature does not increase.</li> <li>&gt; Hot tubs wired for 110V only have enough power to heat or operate pumps. Turn off jets to power</li> </ul>

<b>LIGHTING ISSUES</b>	<b>PROBABLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
<b>Standard light will not come on</b>	<ul style="list-style-type: none"> <li>• Bulb has burnt out</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Replace the light bulb</li> </ul>
<b>LED lighting not in sync</b>	<ul style="list-style-type: none"> <li>• Burnt out bulb/connection</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Contact your dealer</li> </ul>
<b>LED lighting won't come on</b>	<ul style="list-style-type: none"> <li>• Incorrect settings</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Contact your dealer</li> </ul>

<b>PUMPS WILL NOT PRIME</b>	<b>PROBABLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
<b>Pump on but no water flow</b>	<ul style="list-style-type: none"> <li>• Air trapped in pump</li> <li>• No water in the pump</li> <li>• Closed valves</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Loosen bleed valve in skimmer</li> <li>&gt; Check the fill level in the spa</li> <li>&gt; Open all valves</li> </ul>

<b>HYDROTHERAPY JETS</b>	<b>PROBABLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
<b>Little to no water flowing from jets</b>	<ul style="list-style-type: none"> <li>• Jets turned off</li> <li>• Pump not primed</li> <li>• Valves are closed</li> <li>• Diverter set to a different seat</li> <li>• Dirty filter</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Open jet by turning the face counter clockwise</li> <li>&gt; Reset breaker to allow for the spa to prime the pump. Open bleed valve in the skimmer area</li> <li>&gt; Open valves</li> <li>&gt; Switch diverter</li> <li>&gt; Remove and clean filter cartridge</li> </ul>









<b>PLUMBING SYSTEM</b>	<b>PROBABLE CAUSE</b>	<b>RECOMMENDED ACTION</b>
<b>Water around base of spa</b>	<ul style="list-style-type: none"> <li>• Loose connections</li> <li>• Leak from internal fitting</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hand tighten all quick disconnects and fittings.</li> <li>&gt; Check gaskets and o-rings</li> <li>&gt; Contact your dealer</li> </ul>



## Control Panel Operation

Control the functions of your spa using the topside Control Panel. Understand the following information before starting up the spa.



	<p><b>1. Display Window</b> The Display Window shows the current status of the Tublicious: its monitoring functions, self-diagnostics, or programming messages. By default this will show the Tublicious's water temperature</p>
	<p><b>2. FILTER Indicator Light</b> This light glows when a filter cycle is in progress.</p>
	<p><b>3. SET Indicator Light</b> This light glows when you are changing any of the settings.</p>
	<p><b>4. HEAT Indicator Light</b> This light glows when the heater is on.</p>
	<p><b>5. JETS Button</b> Pushing the JETS Button once starts the pump on LOW speed. Pushing it a second time turns on HIGH speed. Pushing it a third time turns the pump off. If there is a need for heat the pump will remain on in low.</p>
	<p><b>6. LIGHT Button</b> Your Tublicious is equipped with an LED main light. Pushing the Light Button once turns the LED on. Pushing it a second time turns the LED off. For more information about the programming functions of your LED, please consult the LED section of this manual.</p>
	<p><b>7. TEMPERATURE Buttons</b> Control the water temperature with the Up (+) and Down (-) Buttons. Push a button once to change the temperature by one degree, or hold it down to rapidly change it by many degrees. The temperature can be set no higher than 104 ° F (40° C). After the desired temperature is set, the Display Window will revert to showing the actual water temperature. The Tublicious will heat to the new Set Temperature automatically.</p>
	<p><b>8. PROGRAM Button</b> Push PROGRAM to begin the process of programming the Tublicious functions. See the section on "Programming the Tublicious Functions" for details.</p>



## PROGRAMMING THE TUBLICIOUS FUNCTIONS

### HEAT MODES (VIA THE PROGRAM BUTTON)

**Standard Mode:** maintains the desired temperature. Note that the last measured spa temperature displayed is current only when the pump has been running for at least 1 minute. "STD" will appear on the display momentarily when you switch into Standard Mode.

**Economy Mode:** heats the spa to the set temperature only during filter cycles. "ECN" will alternate with the temperature when the temperature is current. "ECN" will alternate with "--" when the temperature is not current.

Pressing "Jets" while in economy mode puts the spa in **Standard-In-Economy-Mode**, ("SE") which operates the same as Standard Mode, then reverts to economy mode after 1 hour. During this time, pressing and releasing "Program" will revert the mode to Economy immediately.

**Sleep Mode:** heats the spa to within 20°F/11°C of the set temperature only during filter cycles. "SLP" will alternate with the temperature when the temperature is current. "SLP" will alternate with "--" when the temperature is not current.

The Program button is used to switch between Standard, Economy, and Sleep modes. Press and release "Program" to enter Mode Programming, press "Down" to cycle through to desired mode (LED display flashes until confirmed), then press "Program" to confirm selection.

### Filter Cycles & °F vs. °C (via the Program Button)

The pump will run in low speed during filtration.

The first filter cycle ("day") begins 6 minutes after the spa is powered on. The second filter cycle ("night") begins 12 hours after the first one. Filter duration is programmable for 0.5-6.0 hours ("F0.5"- "F6.0"). The default filter duration is 2 hours.

The **Program** button is used to set filtration cycles. Hold down "Program" for at least 3 seconds. When Filter Duration appears, press "Down" or "Up" to select the filter duration. Press "Program" to select the number of filter cycles. The display will show "dn" (both "day" and "night" cycles); "d" ("day" cycle only); or "n" ("night" cycle only). Press "Down" or "Up" to adjust.

The **Program** button is also used to change between °F and °C. After filtration is set, press "Program" to select Fahrenheit ("F") or Celsius ("C"). Press "Down" or "Up" to adjust. Press "Program" again to exit the programming mode.

The "Filter" LED indicator lights when either filter cycle is running.

**CAUTION:** Long and/or numerous filter cycles could cause overheating of the Tublicious, especially in hot climates.

## Dynamic L.E.D Light

Tublicious is equipped with a main LED light that controls the colors by pushing the light button on the keypad.

To Operate Light Functions:

- Press **Light** key once and the first color pattern sequence will be displayed
- To activate the next color pattern, press **Light** key again. Light will turn off, then press **Light** key within 3 seconds to activate the next color sequence.

The Color Pattern Sequences are:

- Fade (Blue-Green)
- Solid White
- Solid Pink
- Solid Purple
- Solid Blue
- Solid Dark Blue
- Solid Teal
- Solid Green
- Slow Fade
- Quick Fade
- Quick Change
- Fast Strobe

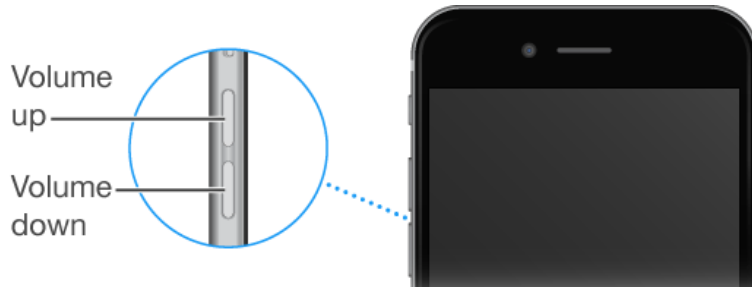


The idock weatherproof enclosure is designed for use with audio devices with a 3.5mm audio jack.

### Setting up the Audio Device

1. Slowly pull out the idock tray to open the enclosure. When extended the tray swing hinge will be exposed on top of the enclosure.
2. Open the enclosure door. The door swings up.
3. Locate the 3.5mm jack inside the enclosure.
4. Plug the 3.5mm cord (provided) into the music device (ie Smart Phone, Tablet, iPod, etc).
5. Once the 3.5mm jack is connected to the device open the app that will be playing the audio and/or select the audio track.

**Note:** The volume for audio sound is controlled from the device.







*Thank you for choosing us!*

At Coast Spas Manufacturing we live by the founding mantra, "Quality shall, in every case, take precedence over quantity."

You can rest easy knowing that you chose to trust in a brand that is ISO 9001: 2008 quality certified. We build our spas with only the highest quality components available to endure the most extreme conditions.

Hoping you, your family and your friends all enjoy your new spa for years to come.

Sincerely,

Don Elkington, Founder CEO & President