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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:

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<th>Parameter</th>
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<tbody>
<tr>
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<td>7.2 - 7.8</td>
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--- 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/m²). 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
Coast Spas with Hydro Cyclonic Filtration Systems

PREP FOR FILLING

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 the filter lock ring and lid.

5. Remove filter and take it out of the plastic transport bag. Leave filter canister open when filling.

6. Remove skimmer cavity grate cover by sliding it upwards.

7. Loosen (do not remove) the air bleeder valve located in the skimmer cavity.

FILLING YOUR SPA

1. Place fill hose into open filter canister and fill hot tub until water is 2/3 of the way up the skimmer opening.

2. When filled all massage jets (excluding neck jets) should be under water.

3. Remove fill hose from filter canister.

4. Put filter back into filter canister. Then put back on the filter canister lid and tighten locking ring.

POWERING UP YOUR SPA

1. Turn power on at the main breaker.

2. Turn pump 1 on high speed for 20 seconds by pressing the pump icon twice.

3. Turn pump 1 off by pressing the pump one icon once. Repeat steps 2 and 3 until air is removed from pump 1 and water is coming from jets.

4. Tighten the air bleeder valve located in the skimmer cavity. Set your hot tub temperature. Get ready to enjoy!
START UP GUIDE
INFINITY EDGE SPAS

PREP FOR FILLING

1. PLEASE READ ALL INSTRUCTIONS BELOW BEFORE FILLING THE SPA

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

3. If your spa has a Crystal Clear tube the threaded plug needs to be on prior to filling the spa.

4. Remove the filter lock ring and lid. Remove filter and take it out of the plastic transport bag.

5. Put the filter back inside and secure the lid firmly with the locking rig. Loosen air-bleed screw.

FILLING YOUR SPA

6. DO NOT USE HOT WATER TO FILL YOUR SPA

7. DO NOT USE WATER FROM A WATER SOFTENER

5. Place fill hose inside the spa and fill main body of spa with water until it reaches the infinity edge. Allow water to spill over infinity edge for approximately 60 seconds.

6. Tighten air-bleed screw.

7. Turn power to the spa on from GFCI breaker to activate water level gauge. Continue filling until the water gauge reads just below 1/2 full.

8. Turn power to the spa off from the GFCI breaker for 30 seconds and then turn back on.

9. Do not press the back and/or pump #1 button on the control panel. Activate high speed on pumps 2 & 3 (if 3-pump model) or pump 2 (if 2-pump model) by pressing the pump buttons twice. Let run for 60 seconds.

10. Continue running pumps 2 & 3 (pump 2 on 2-pump model) then pump 1 on high speed for 20 seconds by pressing the pump 1 icon twice.

11. Continue running pumps 2 & 3 (pump 2 on 2-pump model) on high speed for 30 seconds and activate pump 1 on high speed for 20 seconds.

12. Cascade check valve inside the equipment area, full of water is an indication of no more air in the plumbing line. If the check valve is not full of water, air is still in the plumbing lines.

13. Release any additional trapped air by loosening the air bleed screw. Wait for all air to be released. Retighten.

14. Repeat steps 11-12 until all air has been removed from the system. If air is still in the system it will precede water coming out of the jets when pump 1 is activated.

15. Turn off all pumps. Then turn main power off to the spa for 30 seconds. Then turn power back on.

16. Your water level should read just above 1/4 full on the gauge when pump 1 (high speed) is activated. Your hot tub is now filled. Set the temperature and 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.

**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/m²). 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 avoid 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 (Hydro-Cyclonic Filtration) 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.

**IMPORTANT (Cascade Series Only):** There will be an additional drain valve. This is connected directly to the tank reservoir and you will see the water level go down on the sight tube in the equipment area.
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.

DRAINING INSTRUCTIONS

1. On the control panel (settings) select hold. This will suspend all functions so that the spa can start to be drained.
2. Remove the false bottom in cabinet area.
3. Connect your hose to the hose bib located in the lower compartment. Open the hose bib valve until water starts coming out of the drain hose.
4. Turn evacuation pump power switch ON - located at the top left of the enclosure.
5. The length of time it will take to drain depends on the size of your spa. On average it will take approximately 1 hour.
   
   If you have an Infinity Edge Spa allow it to drain for 30 minutes and then take it off of hold. Pump 1 will run on low speed to drain the tank into the main body of the spa.

   Let pump 1 run on low speed until the water stops coming out of the jets/waterfall and immediately put the system back into hold (refer to step one).

6. Allow spa to finish draining. When fully drained, switch off the evacuation pump and close the hose bib valve.
7. Switch off power to the spa via the main GFCI Breaker.
8. You may have to use a shop vacuum to remove any excess water. Clean the spa before refilling. Refer to your Owner's Manual for proper filling instructions. Once the spa is filled, prior to adding chemicals, open the hose bib valve for approx. 15 seconds to allow fresh water to flush the Water-Vac™ System then close the hose bib valve.

IMPORTANT PLEASE READ

Do not leave your spa unattended while draining. After 90 minutes the hold function is disabled and will allow your spa pumps to activate. This could cause damage to your equipment.
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.

CLEANING AND REPLACING FILTER CARTRIDGE

Your spa filter has been designed for quick and easy maintenance. The filter cartridge should be rinsed by hose once a week and cleaned with a cartridge cleaner once a month. A second filter cartridge is recommended and will speed up this process. This can be purchased from your local dealer.

TOP LOAD FILTERS

- Turn power OFF at the breaker.
- Loosen air relief valve, then remove retainer ring.
- Pull filter lid straight up to remove.
- Do not twist or pull the filter lid up on an angle. This could cause damage to the filter canister, especially in freezing conditions.
- Remove filter cartridge and clean with a garden hose and a high-pressure nozzle. Periodically you may need to soak your filter in a “cartridge filter cleaner” to remove excess minerals and/or oils.
- Rinse filter thoroughly before installing. Clean o-ring on filter lid and apply a light film of silicone lubricant to the o-ring. Do not use a petroleum-based lubricant as it could damage the o-ring. Consult your dealer to purchase suitable lubricant.
- Place clean Cartridge in filter canister.
- Replace filter lid and re-tighten retaining ring (finger tight only)

NOTE: Make sure the o-ring is on the air relief valve, and is finger tight prior to starting the pump. This o-ring should periodically be lubricated with a silicone lubricant.

- There is a 3/8” clear line coming from the filter area and this goes to the bottom corner of the spa. This drains all the water from around the filter canister.
- This is a good time to check the skimmer basket. Bring skimmer door (weir) forward and unscrew basket. Clean out debris and reinstall.

Look for these specialized cleaning attachments at your local dealership.

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.

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.

MICROSILK

If your hot tub is equipped with a MicroSilk generator you can take advantage of some incredible health and appearance benefits. Find expanded information below on the MicroSilk system, benefits and operation.

ABOUT MICROSLINK

MicroSilk produces a silky white cloud of micro bubbles that are small enough to enter the pores of your skin. When the micro bubbles enter the pores of your skin they absorb foreign contaminants and release oxygen. This process improves collagen production, leaving skin feeling smooth and healthy. Using the MicroSilk System on a regular basis greatly reduces the appearance of wrinkles and your skin will appear younger and firmer after only a short period of time.

TREATING SKIN CONDITIONS

MicroSilk is used to treat various skin conditions including: Eczema, Psoriasis, Ichthyosis and aids in reducing scar tissue. More information is available from your local dealership.

OPERATION

MicroSilk is produced by a unique piece of equipment, the MicroSilk Generator, that roughly resembles a jet pump and is located in your equipment area. The MicroSilk generator is powered by your hot tub and controlled using your main control panel.

The MicroSilk Generator requires both water and air to function. Water is supplied from the water in your hot tub and an independent air line connects from a small grate-like fitting from above your spas' waterline –providing the oxygen needed for MicroSilk production.

There is an adjustment valve along the water supply line to the MicroSilk generator that varies the air/water ratio that enters into the system. This adjustment is extremely sensitive and turning the adjustment valve only 1 mm can greatly effect the level of MicroSilk production. When your spa leaves the factory, it has been tested and the valve position marked for optimum MicroSilk production.

Once activated, you will be able to see a white cloud of silky water coming from the specialized fitting in your spa. Depending on the size of your hot tub you should see your entire spa filled with oxygen rich micro bubbles within minutes (more water capacity equals a longer duration until the entire hot tub fills with white silky water).

TROUBLESHOOTING

If your spas’ MicroSilk production seems slow, or lower than normal:

- Ensure that the air supply line is clear of any debris.
- Verify that water is flowing to the MicroSilk generator.
- Check the air/water mixture valve. Return to factory settings by aligning factory placed marks. To adjust: make incremental (1 mm) turns and wait at least 90 seconds before making further adjustments.
- Shut power off at breaker and make sure all electrical, water and air lines have a good connection to the MicroSilk Generator.
# WATER CLARITY TROUBLESHOOTING

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<td>Cloudy Water</td>
<td>Poor filtration</td>
<td>Clean filter cartridge</td>
</tr>
<tr>
<td></td>
<td>pH is too high</td>
<td>Adjust pH</td>
</tr>
<tr>
<td></td>
<td>Hardness is too high</td>
<td>Adjust hardness</td>
</tr>
<tr>
<td></td>
<td>Total alkalinity is too high</td>
<td>Adjust total alkalinity</td>
</tr>
<tr>
<td></td>
<td>Suspended particles</td>
<td>Drain and refill spa water</td>
</tr>
<tr>
<td>Algae Growth</td>
<td>pH is too high</td>
<td>Adjust pH</td>
</tr>
<tr>
<td></td>
<td>Sanitizer is too low</td>
<td>Shock spa with sanitizer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust sanitizer level</td>
</tr>
<tr>
<td>Eye Irritation</td>
<td>pH is too low</td>
<td>Adjust pH</td>
</tr>
<tr>
<td></td>
<td>Sanitizer is too low</td>
<td>Shock spa with sanitizer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust sanitizer level</td>
</tr>
<tr>
<td>Skin Rash/Irritation</td>
<td>Free chlorine level too high</td>
<td>Adjust chlorine level</td>
</tr>
<tr>
<td></td>
<td>Unsanitary water</td>
<td>Shock spa with sanitizer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adjust sanitizer level</td>
</tr>
</tbody>
</table>
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.

PLEATCO DUAL CORE FILTERS

Your hot tub/spa comes with a premium filter. Most come with equipped with a Pleatco DualCore Filter, which does a better job of cleaning your spa water than any other filter cartridge. The DualCore filter has two layers of filtration media, the outer layer and the inner layer. Both are engineered to remove different particles from your water.

The outer core is similar to a traditional filter which traps larger debris, while the inner core filters the water for particles down to 3 microns in size. The inner core is easily removed and both filter media can be cleaned.

Keeping your spa water clean and refreshing is extremely important for your enjoyment of your hot tub. Our hot tubs come with only the best filters available in order to ensure your satisfaction.

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 33 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 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.

**CABINET CARE**

Never spray cabinets with a high-pressure garden hose or pressure washer for any reason. This action may induce an electrical short in the hot tub’s electrical equipment.

**CEDAR CABINET**

Our cedar cabinets are made from top quality Western Cedar and manufactured and stained at our factory. With proper care and maintenance, your cedar cabinet should maintain its beauty for many years. Manufacturer recommends touch-up or re-staining of the cabinet every three to four years depending on your environment. Contact your Dealer for re-staining procedures.

**VINYL CABINET**

Vinyl cabinets are made of a rigid polymer that combines the durability of plastic with the beauty of real wood. This cabinet is manufactured so that it won’t crack, peel, blister or delaminate even after prolonged exposure to the elements. We recommend wiping the cabinet with a soft damp cloth (or sponge) using household soap or liquid detergent and rinsing with fresh water thoroughly. DO NOT use abrasive cleansers or material as this may damage the surface.

**SLATE CABINETS**

Optional Slate cabinets are custom-built and painted in our factory. We recommend lightly brushing the cabinet with a SOFT bristle brush to remove any dirt or stains. For more information on the care of your Slate cabinet, please contact your Local Dealer.

**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.

- 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 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 careful 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.

All waterfalls and laminar flow features should be turned off when the spa is not in use to avoid heat and water loss.

**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.

**WATER DIVERTER VALVE:** The large diverter is used to divert water to various seats in the spa.

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

**FILTER AIR RELIEF VALVE:** Located on top of dome filter lid. Used to release air from the filter.

**SKIMMER BLEEDER VALVE:** Located in the skimmer area, needs to be loosened while filling the spa. This will help eliminate air from being trapped in the spa equipment.
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.

Gate valves: Red with a grey handle is located at the inlet and outlet of the pumping system. Used while servicing the spa equipment, the valves open or close the water flow to the equipment. To remain open for normal use, turn fully counterclockwise.

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.

SKIMMER: This is the rectangular outlet at the water level. The skimmer removes surface debris to the filter. The water level in the spa should be kept ½ to ¾ up on the skimmer for optimum operation.

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.

Neck jet: Direction-controllable jet for soothing neck massage.

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.

Massage Jet: Delivers massage in staccato bursts over a narrow, focused area.

Volcano/Whirlpool Jet: High-output jet designed for foot and leg massage.

Laminar Flow Water Feature: A thin stream of water that arcs from the spa lip.
# TROUBLESHOOTING GUIDE

## SPA SYSTEM

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spa does not work</td>
<td>• Power is turned off</td>
<td>&gt; Reset GFCI</td>
</tr>
<tr>
<td>No display on the control panel</td>
<td>• Power is turned off</td>
<td>&gt; Reset GFCI</td>
</tr>
<tr>
<td></td>
<td>• Defective topside control</td>
<td>&gt; Contact your Dealer</td>
</tr>
<tr>
<td>Letters on the control panel</td>
<td>• An error has been found</td>
<td>&gt; Refer to the Reference Card for your control panel to verify the error. Contact your Dealer for service</td>
</tr>
</tbody>
</table>

## PUMP PROBLEMS

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noisy/Loud motor</td>
<td>• Air trapped in the pump</td>
<td>&gt; Open bleed valve in the skimmer</td>
</tr>
<tr>
<td></td>
<td>• Low water level</td>
<td>&gt; Add water to the spa</td>
</tr>
<tr>
<td></td>
<td>• Worn pump seal</td>
<td>&gt; Contact your Dealer</td>
</tr>
<tr>
<td></td>
<td>• Defective pump</td>
<td>&gt; Contact your Dealer</td>
</tr>
<tr>
<td>Pumps power down on their own</td>
<td>• Set temperature has been reached</td>
<td>&gt; No problem</td>
</tr>
<tr>
<td></td>
<td>• Filtration cycle has ended</td>
<td>&gt; No problem</td>
</tr>
<tr>
<td></td>
<td>• Automatic time out</td>
<td>&gt; Pumps are set to run for a predetermined time while the spa is in use (15-20 Mins)</td>
</tr>
<tr>
<td></td>
<td>• Overheat safety protection</td>
<td>&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.</td>
</tr>
<tr>
<td>Pump running constantly, will not turn off</td>
<td>• Filter cycle set to 24 hours</td>
<td>&gt; Turn off 24 hour filtration</td>
</tr>
<tr>
<td></td>
<td>• Problem with the circuit board</td>
<td>&gt; Turn power off at GFCI and contact your Dealer</td>
</tr>
<tr>
<td>Pump will not turn on</td>
<td>• GFCI tripped</td>
<td>&gt; Reset the GFCI</td>
</tr>
<tr>
<td></td>
<td>• Motor has overheated</td>
<td>&gt; Let cool for 1+ hour</td>
</tr>
<tr>
<td></td>
<td>• Not plugged in</td>
<td>&gt; Plug in to the board</td>
</tr>
<tr>
<td></td>
<td>• Damaged plug</td>
<td>&gt; Contact your Dealer</td>
</tr>
<tr>
<td></td>
<td>• Seized motor</td>
<td>&gt; Contact your Dealer</td>
</tr>
<tr>
<td></td>
<td>• Blown fuse</td>
<td>&gt; Check fuse or contact your Dealer</td>
</tr>
<tr>
<td></td>
<td>• Motor vent is blocked</td>
<td>&gt; Clear debris from the vent</td>
</tr>
<tr>
<td>HEAT PROBLEMS</td>
<td>PROBABLE CAUSE</td>
<td>RECOMMENDED ACTION</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Water will not heat</td>
<td>• Error message on control panel</td>
<td>&gt; Refer to the Reference Card for your control panel to verify the error</td>
</tr>
<tr>
<td></td>
<td>• Spa is in a different Heat Mode</td>
<td>&gt; Set spa to “Standard Mode”</td>
</tr>
<tr>
<td></td>
<td>• Water level is too low</td>
<td>&gt; Add water to the spa</td>
</tr>
<tr>
<td></td>
<td>• Poor water flow</td>
<td>&gt; Clean filter &amp; check valves</td>
</tr>
<tr>
<td></td>
<td>• Closed valves</td>
<td>&gt; Open all valves</td>
</tr>
<tr>
<td></td>
<td>• Pump 1 is not running</td>
<td>&gt; Contact your dealer</td>
</tr>
<tr>
<td>Water is too hot</td>
<td>• Incorrect reading</td>
<td>&gt; Verify temperature with thermometer</td>
</tr>
<tr>
<td></td>
<td>• Filter cycle duration is too long</td>
<td>&gt; Reduce duration of the filter cycle</td>
</tr>
<tr>
<td></td>
<td>• Pump speeds reversed</td>
<td>&gt; Contact your dealer</td>
</tr>
<tr>
<td>Water will not maintain heat</td>
<td>• Cover is off for extended periods of time in cold weather / cold wind.</td>
<td>&gt; Put cover back onto hot tub and allow for heat to regenerate. Call your dealer if temperature does not increase.</td>
</tr>
<tr>
<td></td>
<td>• Hot tub is wired for 110V and jets are on.</td>
<td>&gt; Hot tubs wired for 110V only have enough power to heat or operate pumps. Turn off jets to power heater.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIGHTING ISSUES</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard light will not come on</td>
<td>• Bulb has burnt out</td>
<td>&gt; Replace the light bulb</td>
</tr>
<tr>
<td>LED lighting not in sync</td>
<td>• Burnt out bulb/connection</td>
<td>&gt; Contact your dealer</td>
</tr>
<tr>
<td>LED lighting won’t come on</td>
<td>• Incorrect settings</td>
<td>&gt; Contact your dealer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PUMPS WILL NOT PRIME</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump on but no water flow</td>
<td>• Air trapped in pump</td>
<td>&gt; Loosen bleed valve in skimmer</td>
</tr>
<tr>
<td></td>
<td>• No water in the pump</td>
<td>&gt; Check the fill level in the spa</td>
</tr>
<tr>
<td></td>
<td>• Closed valves</td>
<td>&gt; Open all valves</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDROTHERAPY JETS</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little to no water flowing from jets</td>
<td>• Jets turned off</td>
<td>&gt; Open jet by turning the face counter clockwise</td>
</tr>
<tr>
<td></td>
<td>• Pump not primed</td>
<td>&gt; Reset breaker to allow for the spa to prime the pump. Open bleed valve in the skimmer area</td>
</tr>
<tr>
<td></td>
<td>• Valves are closed</td>
<td>&gt; Open valves</td>
</tr>
<tr>
<td></td>
<td>• Diverter set to a different seat</td>
<td>&gt; Switch diverter</td>
</tr>
<tr>
<td></td>
<td>• Dirty filter</td>
<td>&gt; Remove and clean filter cartridge</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PLUMBING SYSTEM</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water around base of spa</td>
<td>• Loose connections</td>
<td>&gt; Hand tighten all quick disconnects and fittings.</td>
</tr>
<tr>
<td></td>
<td>• Leak from internal fitting</td>
<td>&gt; Check gaskets and o-rings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Contact your dealer</td>
</tr>
</tbody>
</table>
**INITIAL START-UP**

Your spa will enter Priming Mode (PR) when it is energized. During Priming Mode, press “Jets” button repeatedly and be sure the pump is free of air. Priming Mode lasts less than 5 minutes. Press “Warm” or “Cool” to exit. After Priming Mode, the spa will run in Standard Mode (see Mode section).

**TEMP CONTROL**

(80°F - 104°F / 26°C - 40°C)

The last measured water temperature is constantly displayed. The water temperature displayed is current only when the pump has been running for at least 1 minute. To display the set temperature, press “Temp” once. To change the set temperature, press the temperature button again before the display stops flashing and hold. The set temperature will begin to rise, release the button at the desired set temperature. To decrease the set temperature, press and hold the “temp” button again and the set temperature will decline, release at the desired set temperature. After three seconds, the display will stop flashing and begin to display the current spa temperature. The spa will then begin heating (or cooling) in order to reach the set temperature that you have selected.

**PUMP**

Press “Pump” to turn the pump on or off, and to shift between low and high speeds (if equipped). If left running, the pump will turn off after a preset length of time. Low speed may run automatically at times as part of your spas filtration cycles, during which it cannot be deactivated from the panel, however you will still be able to control the high speed setting. The ozone generator (if installed) will activate anytime low speed is running.

**AUX (PUMP 2)**

If an additional pump or blower is installed. Press “Aux” to turn the device on. If your additional device is a dual speed pump, pressing “Aux” again will activate the pumps high speed. Pressing “Aux” again will turn off the device/pump.

**LIGHT**

Press “Light” to operate the spa light. Turns off after 4 hours. If your hot tub is equipped with a multicolor lighting package, then pressing the “Light” button consecutively will toggle the lights through different colors modes.

**MODE**

Mode is changed by pressing “Temp” then “Light”. Press the “Temp” button to toggle through the available modes. Press “Light” to exit programming.

**Standard Mode** maintains set temperature. “St” will be displayed momentarily when you switch into Standard Mode.

**Economy Mode** heats the spa to the set temperature only during filter cycles. “Ec” will display when water temp is not current, and will alternate with water temp when the pump is running.

**Sleep Mode** heats the spa to within 20°F/10°C of the set temperature only during filter cycles. “SL” will display when water temp is not current, and will alternate with water temp when the pump is running.

**PRESET FILTER CYCLES**

The first preset filter cycle begins 6 minutes after the spa is energized. The second preset filter cycle begins 12 hours later. Filter duration is programmable for 2, 4, 6, 8 hours, or C for Continuous (all day). The default filter time is 2 hours. To program, press “Temp” then “Pump”. Press “Temp” to adjust. Press “Pump” to exit programming.
### DIAGNOSTIC MESSAGES

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>RECOMMENDED ACTION</th>
</tr>
</thead>
</table>
| **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. | |
| **Temperature unknown.** | After the pump has been running for 2 minutes, the current water temperature will be displayed. | |
| **“Overheat” - The spa has shut down.” One of the sensors has detected 118°F/47.8°C at the heater.** | DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If the spa does not reset, shut off the power to the spa and call your dealer or service organization | |
| **“Overheat” - The spa has shut down.” One of the sensors has detected that the spa water is 110°F/43.5°C.** | DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F/41.7°C, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization | |
| **Spa is shut down.” The sensor that is plugged into the Sensor “A” jack is not working.** | If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition) | |
| **Spa is shut down.” The sensor that is plugged into the Sensor “B” jack is not working.** | If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat condition) | |
| **Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.** | If the problem persists, contact your dealer or service organization. | |
| **A significant difference between temperature sensors has been detected. This could indicate a flow problem.** | If the water level is normal, make sure all pumps have been primed. If problem persists contact your dealer or service organization. | |
| **Persistent low flow problems. (Displays on the fifth occurrence of message within 24 hours.) Heater is shut down, but other spa functions** | Follow action required for (HFL) message. Heating capability of the spa will now reset automatically. You may press any button to reset. | |
| **Possible inadequate water, poor flow, or air bubbles in detected in the heater. Spa is shut down for 15 minutes.** | If the water level is normal, make sure all pumps have been primed. If problem persists contact your dealer or service organization. | |
| **Inadequate water detected in heater. (Displays on third occurrence of message.) Spa is** | Follow action required for (dr) message. Spa will not automatically reset. Press any button to reset manually. | |
| **“Ice” - Potential freeze condition detected. *Even when spa is shut down, some equipment will turn on if freeze protection is needed.*”** | No action required. All equipment will automatically activate regardless of spa status. The equipment stays on for 4 minutes after the sensors detect that the spa temperature has risen to 45°F/7.2°C or higher. An optional freeze sensor may be added to protect against extraordinary freeze conditions. Auxiliary freeze sensor protection is advisable for colder climates. See your dealer for details. | |
Navigation
Navigating the entire menu structure is done with 2 or 3 buttons on the control panel. Some panels have separate UP and DOWN buttons, while others have a single Temperature button. In the navigation diagrams Temperature buttons are indicated by a single button icon. Panels that have two Temperature buttons (Up and Down) can use both of them to simplify navigation and programming where a single Temperature icon is shown. The MENU/SELECT Button is used to choose the various menus and navigate each section. Typical use of the Temperature button(s) allows changing the Set Temperature while the numbers are flashing in the LCD. The menus can be exited with certain button presses. Simply waiting for a few seconds will return the panel operation to normal.

Priming Mode
This mode will last for 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed. Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically starts normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the “Jets” or “Aux” buttons.

Priming the Pumps
As soon as the above display appears on the panel, push the “Jets” button once to start Pump 1 in low-speed and then again to switch to high-speed. Also, push the “Jets 2” or “Aux” button, if you have a 2nd pump, to turn it on. The pumps will now be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat the process. Note: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the spa and call for service. Important: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

Dual Temperature Ranges
This system incorporates two temperature range settings with independent set temperatures. The High Range designated in the display by a thermometer and an “Up” arrow, and the Low Range designated in the display by a thermometer and “Down” arrow. These ranges can be used for various reasons, with a common use being a “ready to use” setting vs. a “vacation” setting. The Ranges are chosen using the menu structure below. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.
For example:
• High Range might be set between 80°F and 104°F.
• Low Range might be set between 50°F and 99°F.

Changing the Temp Range:
Press and release the “Menu” button until “TEMP” is on the screen. Press and release the “Up” or “Down” button to adjust High Range “▲” or Low Range “▼”. Press and release the “Menu” button to save the Temp Range.

Mode – Ready and Rest
In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the “primary pump.”
If the primary pump is a 2-Speed Pump 1, Ready Mode (indicated by R) will circulate water periodically, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling.”

Rest Mode (indicated by ) will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the primary pump has been running for a minute or two.
In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

Changing the Mode:
Press and release the “Menu” button until “MODE” appears. Press and release the “Up” or “Down” button to switch the Mode

Continued on the next page
Elite Topside Quick Reference Card

to “Ready” or “Rest”. Press and release the “Menu” button to save the selected Mode.

Ready-in-Rest
Mode appears in the display if the spa is in Rest Mode and “Jets” is pressed. It is assumed that the spa is being used and will heat to set temperature. The primary pump will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Mode Menu and changing the Mode.

Show and Set Time-of-Day
Be sure to set the Time-of-Day Setting the time-of-day can be important for determining filtration times and other background features. When in the TIME menu, SET TIME will flash on the display if no time-of-day is set in the memory.

Setting the Time:
Press and release the “Menu” button until “TIME” appears. Press and release the “Up” or “Down” to adjust the Hour. Press the “Menu” button to save the hour and move on to the Minutes. Press and release the “Up” or “Down” to adjust the Minutes. Press the “Menu” button to save the Minutes.

Note: If Time of Day is not actually programmed due to a power cycle, SET TIME will appear in the menu instead of just TIME.

Hold (Standby)
Hold Mode is used to disable the pumps during service functions like cleaning or replacing the filter. Hold Mode will last for 1 hour unless the mode is exited manually.

Selecting Hold Mode:
Press and release the “Menu” button until “HOLD” is on the screen. Press and release the “Up” or “Down” button to activate “Hold Mode”. The screen will display HOLD, ING, FOR, and the time remaining.

Flip (Invert Display): Invert the display.

Changing the Screen Orientation:
Press and release the “Menu” button until “FLIP” is on the screen. Press and release the “Up” or “Down” button to invert the display. Press and release the menu button to save this setting.

Restricting Operation
The control can be restricted to prevent unwanted use or temperature adjustments. Locking the panel prevents the controller from being used, but all automatic functions are still active. Locking the Temperature allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted.

Temperature Lock allows access to a reduced selection of menu items. These include Set Temperature, FLIP, UTIL, INFO and FALT LOG.

Restricting Operation:
Press and release the “Menu” button until “LOCK” is on the screen. Press and release the “Up” or “Down” button to enter the menu. Press and release the “Menu” button to switch from “TEMP” to “PANL”. Note: Pressing and releasing the “Menu” button again will take you back to the beginning of the “LOCK” menu. With “TEMP” or “PANL” selected press and release the “Up” or “Down” button to change the menu selection to the “OFF”/“ON” option. Press and release the “Up” or “Down” button to change the menu option from “OFF” to “ON” to lock either the “TEMP” to “PANL”. Press and release the “Menu” button to save the “LOCK” setting.

Unlocking
This Unlock sequence may be used from any screen that may be displayed on a restricted panel.

Unlocking instructions:
While pressing and holding the Temperature Button (UP button or Up button), slowly press and release the “Menu” button two times.

Adjusting Filtration
Filter cycles are set using a start time and a duration. Start time is indicated by an “A” or “P” in the bottom right corner of the display. Duration has no “A” or “P” indication. Each setting can be adjusted in 15-minute increments. The panel calculates the end time and displays it automatically.

How to adjust the Filtration:
Press and release the “Menu” button until “FLTR” 1 or 2 appear on the screen. Press and release the “Up” or “Down” button to enter the menu, “BEGN” should appear. Press and release the “Up” or “Down” button to set the start time (Option 1) or Press and release the “Menu” button to set the duration (Option 2). Pressing and releasing the “Menu” Button again during the “RUN”-“HRS” will display which filter cycle is being set and the end time. Press and release the “Menu” once more to save the settings.

Option 1: Setting the Start Time
With “BEGN” on the screen press and release the “Up” or “Down” button, use the “Up” or “Down” buttons to adjust the starting hour. When satisfied press the “Menu” to proceed to the Minutes. Use the “Up” or “Down” buttons to adjust the starting Minutes. When complete press the “Menu” button to save the starting time.

Option 2: Setting the Duration
With “BEGN” on the screen press and release the “Up” or “Down” button to set the starting time (Option 1, please see above) or press the “Menu” button to proceed to “RUN”-“HRS”. Use the “Up” or “Down” buttons to adjust the hours of duration. Press the “Menu” button to start the minutes. Use the “Up” or “Down” buttons to adjust the duration minutes. When complete press the “Menu” button to save the duration time.
Filter Cycle 2 - Optional Filtration
Filter Cycle 2 is OFF by default. It is possible to overlap Filter Cycle 1 and Filter Cycle 2, which will shorten overall filtration by the overlap amount.

Purge Cycles
In order to maintain sanitary conditions, secondary Pumps and/or a Blower will purge water from their respective plumbing by running briefly at the beginning of each filter cycle. If Filter Cycle 1 is set for 24 hours, enabling Filter Cycle 2 will initiate a purge when Filter Cycle 2 is programmed to begin.

Additional Information
Preferences:
Press and release the “Menu” button until “PREF” appears. Press and release the “Up” or “Down” button to enter the Preferences menu. Use the “Menu” button to scroll through the options (listed ahead) and the “Up” or “Down” buttons to enter that section. While in a section use the “Up” or “Down” buttons to toggle the options and the “Menu” button set each option in the memory.

**F / C (Temp Display)**
Change the temperature between Fahrenheit and Celsius.

**12 / 24 (Time Display)**
Change the clock between 12 hr and 24 hr display.

**RE-MIN-ackers (Reminders)**
Turn the display of reminder messages (like “Clean Filter”) On or Off. Note: Reminders continue to run in the background even when not displayed. So turning the display of Reminders On or Off does not reset any Reminder counts.

**CLN-UP (Cleanup)**
Cleanup Cycle Duration is not always enabled, so it may not appear. When it is available, set the length of time Pump 1 will run after each use. 0-4 hours are available.

**M8**
(This message may not appear on all systems.) On systems that have M8, it is enabled by default. It can be disabled (or re-enabled) here. M8 reduces polling intervals when the water temperature in the spa is steady.

**DOL-PHIN-AD-DRES (Dolphin II and Dolphin III)**
Applies to RF Dolphin only. (This message may not appear depending on the configuration) When set to 0, no addressing is used. Use this setting for a Dolphin Remote which is factory set for no address by default. When set between 1 and 7, the number is the address. (See the Dolphin manual for details.)

INFO (System Information sub-menu)
The System Information Menu displays various settings and identification of the particular system.

**SSID (Software ID)**
Displays the software ID number for the System. MODL (System Model) Displays the Model Number of the System. SETP (Current Setup) Displays the currently selected Configuration Setup Number.

**Heater Voltage (Feature not used on CE rated systems.)**
Displays the operating voltage configured for the heater.

**Heater Wattage as Configured in Software (CE Systems Only.)**
Displays a heater kilowatt rating as programmed into the control system software (1-3 or 3-6).

**H _ (Heater Type)**
Displays a heater type ID number.

**SW _ (Dip Switch Settings)**
Displays a number that represents the DIP switch positions of S1 on the main circuit board.

**PANL (Panel Version)**
Displays a number of the software in the topside control panel.

**GFCI (GFCI Test)**
(Feature not available on CE rated systems.)
GFCI Test is not always enabled, so it may not appear. This screen allows the GFCI to be tested manually from the panel and can be used to reset the automatic test feature. If the GFCI Test Feature is reset, the device will trip within 7 days.

**A / B (A/B Sensor Temperatures)**
When this is set to On, the temperature display will alternate to display temperature from Sensor A and Sensor B in the heater.

**FALT LOG (Fault Log)**
The Fault Log is a record of the last 24 faults that can be reviewed by a service tech.

**DEMO (Demo Mode)**
Demo Mode is not always enabled, so it may not appear. This is designed to operate several devices in a sequence in order to demonstrate the various features of a particular hot tub.

Utilities and Information
Press and release the “Menu” button until “UTIL” appears. Press and release the “Up” or “Down” button to enter the Preferences menu. Use the “Menu” button to scroll through the options (listed ahead) and the “Up” or “Down” buttons to enter that section. While in a section use the “Up” or “Down” buttons to toggle the options and the “Menu” button set each option in the memory.
Primming the Pumps
As soon as the Primming Mode screen appears on the panel, select the “Jets 1” button once to start Pump 1 in low-speed and then again to switch to high-speed. Also, select the other pumps, to turn them on. The pumps should be running in high-speed to facilitate priming. If the pumps have not primed after 2 minutes, and water is not flowing from the jets in the spa, do not allow the pumps to continue to run. Turn off the pumps and repeat the process. Note: Turning the power off and back on again will initiate a new pump priming session. Sometimes momentarily turning the pump off and on will help it to prime. Do not do this more than 5 times. If the pump(s) will not prime, shut off the power to the spa and call for service. Important: A pump should not be allowed to run without priming for more than 2 minutes. Under NO circumstances should a pump be allowed to run without priming beyond the end of the 4-5 minute priming mode. Doing so may cause damage to the pump and cause the system to energize the heater and go into an overheat condition.

Exiting Priming Mode
The system will automatically enter the normal heating and filtering at the end of the priming mode, which lasts 4-5 minutes. You can manually exit Primming Mode by pressing the “Exit” button on the Primming Mode Screen. Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump(s) have been primed by this time. Once the system has exited Primming Mode, the top-side panel will display the Main Screen, but the display will not show the temperature yet, as shown below. This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it.

Navigation
Navigating the entire menu structure is done by touching the screen. When a text item is shown in white on the main screen, it is selectable. The menu selections on the right side of the screen can be selected. Select one of these to enter a different screen with additional controls. Most menu screens time out and revert to the main screen after 30 seconds of no activity. The only item that can be changed on the left side of the Main Screen is the Set Temperature. Touch either the set temperature line or the water temperature to go to the Set Temperature screen.

Time-of-Day
Be sure to set the Time-of-Day Setting the time-of-day is important for determining filtration times and other background features. “Set Time” will appear on the display if no time-of-day is set in the memory. On the Settings Screen, select the Time-of-Day line. On the Time-of-Day screen, simply select the Hour, Minutes, and 12/24 Hour segments. Use the Up and Down Buttons to make changes.

Note: This only applies to some systems: If power is interrupted to the system, Time-of-Day will be maintained for several days.

Jets
The Spa Screen shows all available equipment to control, as well as other features, like Invert. The display shows icons that are related to the equipment installed on a particular spa model, so this screen may change depending on the installation. The icon buttons are used to select and control individual devices. Some devices, like pumps, may have more than one ON state, so the icon will change to reflect the state that the equipment is in. Below are some examples of 2-speed Pump indicators. If the Spa has a Circ Pump, a Circ Pump Icon will appear to indicate its activity, but outside of Priming Mode, the Circ Pump cannot be controlled directly. Note: The icon for the pump that is associated with the heater (Circ or P1 Low) will have a red glow in the center when the heater is running.

Settings
The Settings Screen is where all programming and other spa behaviors are controlled. This screen has several features that can be acted on directly. These features may include Temp Range, Heat Mode, Hold, and Invert Panel. When one of these items is selected, it will toggle between two settings. All other menu items (with an arrow pointing to the right) go to another level in the menu.

Dual Temperature Ranges (High vs. Low)
This system incorporates two temperature range settings with independent set temperatures. The specific range can be selected on the Settings screen and is visible on the Main Screen in
the upper right corner of the display. These ranges can be used for various reasons, with a common use being a “ready to use” setting vs. a “vacation” setting. Each range maintains its own set temperature as programmed by the user. This way, when a range is chosen, the spa will heat to the set temperature associated with that range.

- High Range can be set between 80°F and 104°F.
- Low Range can be set between 50°F and 99°F.

**Heat Mode – Ready vs. Rest**

In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the “heater pump.” The heater pump can be either a 2-speed pump (Pump 1) or a circulation pump. If the heater pump is a 2-Speed Pump 1, Ready Mode will circulate water every 1/2 hour, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling.” Rest Mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two. When the heater pump has come on automatically (for example for heating) you can switch between low speed and high speed but you cannot turn the heater pump off.

**Restricting Operation**

The control can be restricted to prevent unwanted use or temperature adjustments. Locking the Panel prevents the controller from being used, but all automatic functions are still active. Locking the Settings allows Jets and other features to be used, but the Set Temperature and other programmed settings cannot be adjusted. Settings Lock allows access to a reduced selection of menu items. These include Filter Cycles, Invert, Information and Fault Log. They can be seen, but not changed or edited.

The Lock option can be accessed from the “Settings” menu.

**Unlocking**

The same steps are used to Lock and Unlock. To lock either Settings or Panel first select Settings (if it says “Unlocked”) or Panel (if it says “Unlocked”), than press the word “Lock” for at least 5 seconds. To unlock either Settings or Panel first select Settings (if it says “Locked”) or Panel (if it says “Locked”), than press the word “Lock” for at least 5 seconds.
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With the Balboa Wi-Fi Module installed in your spa follow the steps below to setup/configure the device.

**Step 1:** Download the app from the Google Play store or the iTunes store. The app will be titled “Coast Spas—Spa Remote” (Google) or Coast Spas—Remote Spa Control (iTunes).

**Step 2:** Make sure your Wi-Fi on your device is enabled. Check your device’s instructions on how to access Wi-Fi Settings.

**Step 3:** While standing at the spa select the Wi-Fi Module from the list of available devices from your device’s Wi-Fi menu. The Wi-Fi device will appear as BWGSpa_XXXXX in the list.

**Step 4:** Once connected to the Wi-Fi Module directly open the Coast Spas app. The Coast Spas app will allow you to control and interact with the spa while you are still with in range.

Selecting “Controls” will open a list of installed components like pump(s), blower, lights, etc.

**Note:** This screen will vary depending on installed components.

Selecting “Settings” will open the settings menu. While connected to the spa will be able to set the temperature, change the degrees between °F or °C, alter the heat mode (Ready/Rest), select the temperature range (low or high), set the time of day, input filter cycles (time start and duration) and have access to the advanced menu.

For more information on the various settings please refer to the selection in the owner’s manual for your topside control.

**Connecting to the Home Network**

**Note:** You can only connect the Wi-Fi app to the house network when connected directly to the Wi-Fi Module. See “Getting Started” to connect directly to the Wi-Fi Module.

Once connected to the Wi-Fi Module navigate to Settings ► Advanced ► Wi-Fi Settings.

**Step 5:** Select your routers security setting. This will vary and if the wrong setting is selected the app will not be able to access the spa.

**Step 6:** Set your home network. Each router will have its own unique SSID (Service Set Identifier).

**Step 7:** Enter your key. The key will be the passkey used to sign in on your network.

Note: If you do not know or need assistance locating any of the information above please contact your locale service provider.
PRV 19 STEREO SYSTEM

POWER
- Power
  On/Off
  Short push for the first time to turn unit on.
  With unit powered on, short push for MUTE feature.
  Press and hold for more than 2 seconds to turn the unit off.

MODE
- Mode Function.

SEL
- Switches amongst Radio, USB, and Auxiliary.
  SEL stands for SELECT.

BAND
- In Radio mode, this works Band Function.
  In MP3 playing mode, it works Play/Pause function

VOL +
- Volume Increase

VOL -
- Volume Decrease

▼
- Track Down/Tune Down/Reverse

▲
- Track Up/Tune Up/Fast Forward

GENERAL OPERATION
- SEL button
  Press and hold this button to enter into SELECT function, then repeatedly short push in succession results in the following menu options: Bass, Treble, Balance, Fader, Loud, EQ, Beep, Initial Volume, Area.
  Press VOL + or VOL - to adjust the options.
- LOUD
  Choose between Loud ON or OFF
- EQ
  Choose between Classic, Pop, Rock, Jazz and EQ off.
- Beep
  Choose between Beep ON, Beep 2ND, Beep OFF.
- Initial Volume
  Refers to the loudness level upon start of the receiver.
- Area
  Choose between USA and European.

RADIO OPERATION
A. Press ► || button (BAND function) to access FM and AM.
   There are three FM bands and two AM bands.
B. Tuning
   A short press of the ▼ or ▲ button results in a search of the station and stops at next sufficient signal strength. A long press results in manual tuning mode.

USB OPERATION
A. Insert a USB stick into the USB slot. * Songs must be of the mp3 or wma format. *
B. ► || button
   Press it to pause the track. Press it again to resume play.
C. ▼ and ▲ button (Track Up / Track Down)
   Short press Track Up or Track Down button to select the next or previous track.
   Press and hold Track Up or Track Down button to go fast forward and rewind the current

BLUETOOTH OPERATION
The Media device must Bluetooth capability in order to stream music.
A. To pair your Bluetooth device, press the MODE button on the stereo until BT AUDIO appears.
B. Press and hold the BAND button until PAIRING appears.
C. Next, go to settings on the Bluetooth device and turn the Bluetooth option to "on".
D. Select the "PRV19" from available devices. If you are prompted for a passcode enter “1234”. If the stereo does not immediately pair press the BAND button. This will allow the pairing process to finalize. A noise will alert you that the devices are paired.
   The display will also read “CONN OK” (Connection Okay).

Note: To disconnect your device press and hold the BAND button. The display will read "DISCONN" to alert you the disconnection is complete.

Note: While playing BT Music press the ► || to pause or resume playback.
Power On
Press the ON/OFF button.

Red Light: Power to the docking station is ON, but the unit is in standby mode.

Blue Light: The unit is powered ON and looking for an audio source.

Handheld Remote Control Charging
The remote has a built-in Polymer Lithium rechargeable battery and comes with a charging cable. Connect one end of the charging cable to the charging connection on remote control and connect the USB end of the charging cable to any USB charger (5V DC) for charging. Make sure the remote has been charged before used.

Handheld Remote Control Synchronizing
The remote should already be paired from the factory, but if you need to synchronize the remote, follow the steps below.

1. Make sure Digital Media Locker is powered ON (red LED) the place the remote within 0.5 meter of the Digital Media Locker.
2. Press and hold MODE on remote control until the LCD shows “Pairing in Progress”. Release the button.
3. Within 2 seconds, the LCD will show “Paired”. If it fails to pair, the LCD will show “Retry again”. If this happens, wait 5 seconds and repeat steps above.

Listening via USB
1. Attach your USB thumb drive or devices USB cable to the female USB socket of the Digital Media Locker.
2. Press MODE to select USB mode.
3. Press PLAY to play or pause the music.
4. Press FAST REWIND / FAST FORWARD once play previous / next song file.
5. Press and hold FAST REWIND / FAST FORWARD to fast forward / fast rewind the song file.
Listening via Bluetooth Device
1. Bluetooth mode will be activated once a Bluetooth device is paired in any mode. Use MODE to change to the Bluetooth mode to listen to music.
2. Play the song from device and the sound will play through the Digital Media Locker.
3. Press PLAY/PAUSE to play/pause the song.
4. Press FAST REWIND/FORWARD buttons to play previous/next song file.
4. Press and hold FAST REWIND/FORWARD buttons to fast forward / fast rewind the song file.
5. Previous/next track and volume up/down can be controlled directly from your Bluetooth device or directly from the Digital Media Locker remote control.

Bluetooth Multi-link
A second Bluetooth device can pair to the Digital Media Locker even when it has been paired to another Bluetooth device. The second Bluetooth device will be able to play once the first device has stopped playing.

Listening to FM Radio
Press MODE on remote control to switch to FM radio mode.

Scan or Seek FM Radio Channels
1. Press FAST REWIND or FAST FORWARD to seek another station.
2. Press and hold either FAST REWIND or FAST FORWARD for manual tuning back or forward.

Saving Radio Channel to Memory
To save the current frequency into memory, press and hold 1, 2 or 3 for more than 2 seconds. The station will be stored into relevant button.

Listening to Saved Radio Memory
Press the 1, 2 or 3 preset button once to listen to the station stored in that button.
• Ozone will turn on during the programmed filter cycles and pump# 1 operation.

• Verify that the green light on the Ozone turns on when activated.

• Check the spa drain (at the bottom of the spa) to verify that small ozone bubbles are coming out.

• Verify that one way check valve is installed on the ozone tubing and it is working as intended.
IN.CLEAR—GETTING STARTED
See video: http://www.inclear.ca/inclearstartupprocedure
For more information: http://www.inclear.ca/inclearwater

1. CLEAN THE SPA
It’s important to completely clean the spa to remove all residues accumulated on the surface and inside or around the jet area. After draining the spa, use spa cleaning products only. Household cleaners contain additives such as phosphates which may affect the bromine production.

2. TDS (TOTAL DISSOLVED SOLIDS) CHECK
check the TDS (Total Dissolved Solids) of the water you’ll use to fill the spa. Verifying the TDS range can be done by your spa selling dealer. The TDS range should be within 50 and 400 PPM. When you’re certain the water is within the proper TDS range, fill your spa. If the TDS is higher than 500 PPM, ask your spa dealer for additional information to help reduce initial TDS. DO NOT use water from a “Salt Water Softener” system. Make sure there is adequate flow and that no airlocks are trapped in the unit’s plumbing. If airlocks are formed, start the pump and follow the instructions in the owner’s manual.

3. ADJUST WATER CHEMISTRY IN THE SPA
Proper chemical maintenance of a spa is essential for the health of bathers. Maintaining the quality of the spa water within these specified values will enhance your enjoyment of the spa and prolong the life of the In.Clear system.

For best results, adjust to the following water chemistry parameters. Check these parameters periodically. Calcium hardness (TH): between 150 and 200 PPM Total Alkalinity: between 100 and 120 PPM pH: between 7.2 and 7.8

Water chemistry should be balanced before adding sodium bromide into the water. It’s essential that the water chemistry parameters are within the proposed range to obtain optimal system performance. High Calcium Hardness may lead to faster calcification of the electrolytic plates.

4. ADD SODIUM BROMIDE (SUCH AS BROMICHARGE)
Water temperature between 32° and 38° C (90° and 100° F) helps dissolve sodium bromide and facilitates the adjustment of the maintenance level. Start the pump on high speed to allow water to circulate and slowly add sodium bromide uniformly in the spa by simply pouring it from the container. Metric Calculation: Add 0.143 kg of sodium bromide which has a guarantee of at least a 98% active ingredient, such as BromiCharge, per 100 L of water to attain 1400 ppm TDS value (Total Dissolved Solids). Example, if your spa holds 1200 L of water, add 1.72 kg of sodium bromide (12 X 0.143 kg). Imperial Calculation: Add sodium bromide which has a guarantee of at least a 98% active ingredient, such as BromiCharge per 100 US gallons of water. Example, if your spa holds 300 US gallons of water, add 3.6 lbs of sodium bromide (3 X 1.2 lb).

Note: Your selling dealer can tell you how much water your spa holds (in liters or gallons).

MAINTENANCE MODE

Maintenance Mode keeps the bromine bank levels at a stable and acceptable range when the spa is not being used. Maintenance mode is the “everyday” mode and is automatically ON when the system is activated.

Press and hold the Program key for 2 seconds to change the maintenance mode level.
Use the Up and Down keys to adjust the maintenance level, ranges from 1 to 50.

Finding and setting the right maintenance level will keep the residual bromide level between 3 and 5 PPM (the recommended range). Once the proper maintenance level is determined, keep the same setting unless the spa conditions change (change in water temperature, spa location etc.).

BOOST MODE
The Boost Mode should be activated every time you use your spa. Boost mode increases the bromine generation rate to attack pollutants in the water and helps rebuild the necessary residual bromine in the water after each use of the spa.

• If water quality is not good after use, only boost level should be adjusted, not the maintenance level.

• Press the Boost key once while in maintenance mode to start a boost, or to adjust boost settings.

• Use the Up and Down keys to adjust the boost level, ranges from 1 to 8.

Note: Boost levels depend on the number of bathers using the spa. We recommend you validate the Boost level after each use to determine the ideal boost level for all numbers of bathers.
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 you chose to trust in a brand that is ISO 9001: 2015 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,

[Signature]

Patricia Diamente, CEO & President