

OWNER'S MANUAL

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



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Introduction

Congratulations on the purchase of your new spa! With proper preparation and care, your spa will give you many years of enjoyment. We believe that your spa will become a special place in your garden that allows your family and friends to relax, have fun and enjoy time together in a soothing, natural water environment.

Please remember, your spa is a powerful piece of electrical equipment. It is extremely important that you have it properly installed to ensure safe use. To properly acquaint yourself with your spa, we suggest that you take the time to read through this owner's manual before installing and operating your spa. And it is also a supplement to the training that you should receive from your spa dealer when you purchase and start up your spa for the first time. Doing so will familiarize you with important operating and safety procedures, thereby ensuring an enjoyable experience right from the start.

If you have any questions regarding this manual, please call your spa dealer, who will be happy to further assist you.

Warning: This manual was written to ensure the proper use and installation of your spa. Any modifications to the procedures outlined in this manual may result in your warranty being void.

This manual and its contents are subject to change without notice. Although we have prepared this manual as accurate and precise as possible, we will not be liable for loss, injury or damages caused by im proper installation or im proper use of the spa.

Correct Disposal of this product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer from whom your product was purchased. They can take this product for environmental safe recycling.

Important Safety Instructions

Please take the time to read all of this warnings and cautions before installing and using your spa.

Please be a responsible spa owner. When installing and using your spa, please always follow these basic safety precautions. Be certain to explain the safety precautions to all new or occasional users of your spa.

Note: A licensed electrician may be required to upgrade your standard receptacle and/or circuit breaker.

Danger – Risk of child drowning & injury: To avoid accidents, ensure that children cannot use the spa unless they are supervised at all times. Make sure you always lock the cover after using your spa for children's safety. Lower water temperature are recommended for children. Children are especially sensitive to hot water.

Danger – Risk of injury: The suction fittings in this spa 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 the flow rates are compatible. Never operate the spa if the suction fitting or filter baskets are broken or missing. Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

Danger – risk of electrical shock: Install the spa at least 5 feet (1.5m) from all metal surfaces. As an alternative, the spa may be installed within 5 feet (1.5m) of metal surfaces when each metal surface is permanently connected by a minimum 6mm² solid copper conductor to the outside of the spa's control box. Do not permit any external electrical appliances, such as a light, telephone, radio, television and etc., within 5 feet (1.5m) of the spa. Never attempt to operate any electrical device from inside the spa.

Warning to reduce the risk of injury: The spa water should never exceed 40 °C (104 °F). Water temperature between 38 °C (100 °F) and 40 °C are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

High water temperature has a high potential for causing fetal damage during pregnancy. Women who are pregnant, or who think they are pregnant, should always check with their physician prior to spa usage. The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

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

Persons using medications should consult a physician before using the spa since some medication may induce drowsiness while others may affect heart rate, blood pressure and circulation.

Avoid risks of hyperthermia: Prolonged exposure to hot air or water can induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level 2 °C to 4 °C above the normal body temperature of 37 °C. While hyperthermia has many health benefits, it is important not to allow your body's core temperature rise above 39.5 °C. Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- » Failure to perceive heat
- » Failure to recognize the need to exit spa
- » Unawareness of impending hazard
- » Fetal damage in pregnant women
- » Physical inability to exit the spa
- » Unconsciousness

Warning: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

Avoid risks of burns: Before entering a spa, measure the water temperature with an accurate thermometer since the tolerance of temperature-regulating devices may vary by as much as ± 5 °F (2 °C). Test the water with your hand before entering the spa to be sure it's comfortable.

For spas Equipped with audio components: Audio components are optional and available on all spa models.

Warning: Do not connect any auxiliary components to the system—for example, cable, additional speakers, headphones, etc.

Caution: Do not leave audio compartment door open. Replace audio components only with identical components.

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.

General Spa Guidelines

Your new spa is meant to be enjoyable, healthful and relaxing. The following operating and maintenance instructions are very important and must be followed carefully.

- » Always check the water temperature by hand before entering your spa.
- » High water temperature can be hazardous to your health.
- » Children should not use spas without adult supervision.
- » Do not use your spa alone.
- » Keep all glass and other breakables away from the spa area.
- » Enter and exit the spa slowly. Wet surfaces can be slippery.
- » Prolonged immersion can be hazardous to your health.
- » Maintain water chemistry in accordance with manufacturer's instructions.

Your new spa has been engineered with a high-powered water pump that pushes water through various hydro-therapy jets, which will relax even the tightest muscles.

The filtering of the spa is very important. It will minimize cleaning time and the amount of chemicals needed to keep your spa water balanced. The two daily programmable filter cycles can be set for any duration up to 11 hours if the need arises. This can be accomplished through the topside control panel.

Important: Keep your spa securely covered when not in use!

- » Covered spas use less electricity while maintaining a set temperature.
- » Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- » You are required to keep the spa covered to maintain warranty coverage.
- » Covering your spa helps prevent children from drowning in the spa.

Your new spa comes equipped with an electric heater. Follow the instructions mentioned below will ensure the most efficient operation:

- » Keep the spa's operating temperature 2 °C below the desired usage temperature when not in use. One or two hours before use, set the temperature to the desired temperature.
- » If the spa usage exceeds two hours a week, the set temperature should remain at the desired usage temperature.
- » The air venture should be used sparingly. When open, water temperature drops quite rapidly and can also dissipate chemicals.

Note: This method is only for spa usage under two hours a week.

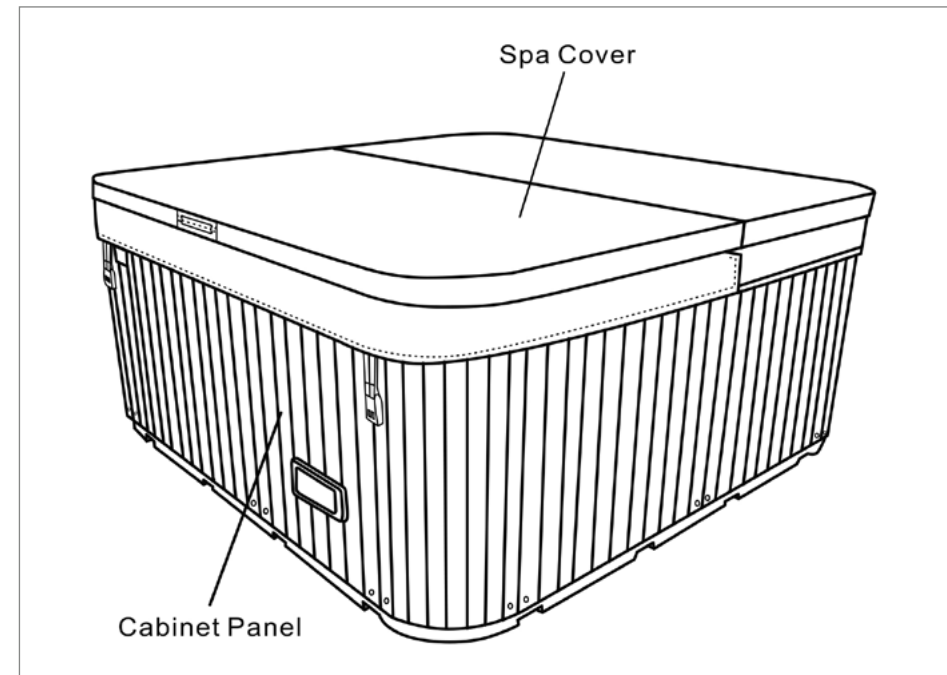
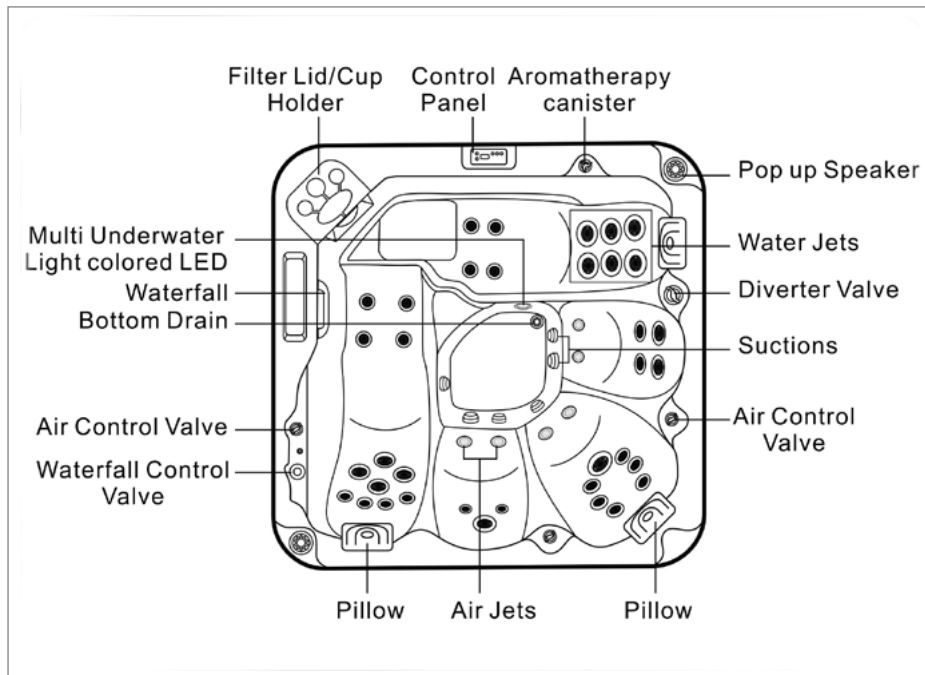
- » The filter needs to be cleaned or changed on a regular basis. This process takes only a few minutes and the result is increased water clarity and equipment longevity.
- » Water level is very important to the operation of your spa. If the water level is too low or too high, Your spa will not operate properly. The water level should be approximately 1" above the highest jet (or about half an hour below the pillow) when the spa is not being used.

- » We recommend that your spa water be changed every 2 to 3 months. You may find it necessary to change your spa water more frequently with heavy use. When empty, your spa should be cleaned with a non-abrasive cleaner then rinsed thoroughly.
- » When filling your spa, always fill through the skimmer filter canister. Use only regular tap water.
- » See instructions on draining your spa.

Warning: Do not use salt in your spa!

Calcium helps control the corrosive nature of the spa's water. The low calcium content of soft water is very corrosive to the equipment and can cause staining of the spa shell. The recommended calcium hardness is 150 - 200 ppm.

Refer to the following pictures for an explanation of your spa's controls, components, and technical terms. Please note that not all models have the features and components as shown in the following pictures.



Installation Instructions

Proper planning is an important consideration when installing your new spa. Site selection is a critical step and should be given some serious thought. Planning ahead, before the delivery of your spa, makes the installation process easier.

Site selection and preparation:

- 1) Place your spa on a structurally strong, solid and reasonably level surface that is large enough for the entire spa to fit. A filled spa is extremely heavy. Make sure that the location you choose can support the weight of your filled spa. Uneven settling could cause a spa to crack, or structural damage due to an improper foundation is not covered under warranty.
- 2) Be sure your spa will fit into the space you have chosen. Always comply with local building codes with respect to gates, fences, etc.
- 3) Ensure that the spa installation and location allow a clear and unobstructed access on ALL SIDES of the spa for normal servicing. Be sure your spa has proper access to all electrical components, circuit breakers, fuses, cabinet panels, etc. Failure to do so may result in additional charges or assessments to service and/or repair the spa.
- 4) Ensure that water drains away from the spa in order to keep water out of the equipment compartment and away from all electrical components. Remember, the electrical components inside your spa must be kept dry.
- 5) Provide adequate ventilation for the humidity created by your spa.
- 6) Check the load carrying capabilities of the floor on which the spa will reside. Most homes should meet the requirement of 80 pounds per square foot.

Electrical Installation Requirements

It is the responsibility of the spa owner to ensure that a qualified and licensed electrician performs the electrical installation. And this installation must be in accordance with the National Electrical Code; local and state electrical codes. The following information is provided for hooking up the electrical power supply to your new spa. Please refer to OPERATION MANUAL for details.

Initial Start-up Instructions

Important: Read these step-by-step startup procedures before starting your spa. Failure to follow any of the below mentioned instructions may result in damage to the equipment and may void your warranty.

Caution: Do not turn on the power to an empty or partially filled spa. Running the spa pump dry (without water running through it) can cause IMMEDIATE damage and will void the warranty! Be sure that the spa is installed properly in accordance with the installation instructions in this manual.

Inspection

You will have to inspect your spa before filling it with water. Go through the following steps to prevent common issues when hooking up your spa for the first time.

- 1) Turn off the power to the spa at the main breaker.
- 2) Remove the synthetic cabinet panels on the side of the spa to access the internal electrical components and equipments.
- 3) Rotate all the jets in the spa to a clockwise position (fully open position).
- 4) Be sure all ball valves are fully opened to the heater and all pumps.
- 5) Check the heater unions and pump unions to assure that they are tight to prevent the possibility of leakage in the equipment's area (Each pump has 2 unions and the heater has 2 unions, a newly delivered spa may have loose unions caused in transporting the spa). These are hand- tightened and do not need any kind of special tools to tighten them.

Caution: Do not use a wrench. Over-tightening may cause damage to unions and gaskets, which will not be covered under warranty.
- 6) Check that there are no obvious signs of loose wires or broken pipes.
- 7) Clean out any debris from within the service access area or inside of the spa itself.
- 8) Make sure that the drain valve is closed (see draining your spa).
- 9) Clean and polish the surfaces of your spa.

Filling your spa with water

Caution: DO NOT fill your spa with hot water straight out of your water heater or tap. This water may be as hot as 60 °C (140 °F) and will cause damage to the surface and plumbing of the spa. This will void your warranty. Level your spa before filling.

Now it's time to fill your spa with water. Do not turn on the power to the spa until your spa is completely filled. The following is the recommended method for properly filling your spa:

- 1) Remove the filter lid/cup holder and set it aside.
- 2) Remove the floating weir and basket. Then remove the filter cartridge by pulling it out from the filter canister.
- 3) Place a garden hose in the center of the filter canister.
- 4) Fill the spa with water from the circulation pump line until water level is above the foot-well.

Note: This will purge all the air out of the circulation pump. An air lock can cause damage to the circulation pump and this will void your warranty.

- 5) Once the water level is filled over the foot-well, you can pull the hose out of the filter canister and continue filling the spa from foot-well area of the spa shell.
- 6) Fill the spa until the water level is about 1" above the highest jet (or about 1/2" below the pillow). Do not over fill.
Note: Every person entering the spa will displace a given volume of water, so adjust water level to the number of people regularly using the spa.
- 7) Turn off the hose, and verify there are no leaks at the pump unions during filling your spa.
- 8) Reinstall the filter cartridge and basket into the filter canister.

Turning the power on

Warning: Do not turn on any pump until your spa is properly filled with water. Running any pump without water in your spa can cause IMMEDIATE damage, which will not be covered under warranty!

After filling your spa with water to a level of approximately 1" above the highest jet (or about 1/2" below the pillow), you can turn on the power to the spa at the main breaker. Verify that your spa has no error codes. If you encounter a problem, please refer to OPERATION MANUAL guide.

Testing the RCD breaker

Test the RCD breaker prior to first use and periodically when power to the spa is turned on. To test the RCD breaker, please follow these instructions (spa should be operating):

- 1) Press the „TEST“ button on the RCD. The RCD will trip and the spa will shut off.
- 2) Reset the RCD breaker by switching the breaker to the full „OFF“ position, wait a moment, then turn on the breaker back. The spa should have power again.

Danger – Risk of electrical shock: If the RCD breaker fails to operate as described, there is a possibility of an electrical shock if the spa is used. Turn off the power at the main breaker until the source of the problem has been identified and corrected by a licensed electrician or qualified spa technician.

Priming the pumps

When power is turned on, your spa is automatically programmed to start circulating the water through the circulation pump. If there is no water flowing from the jets, the pumps need to be primed to eliminate air lock.

Caution: Make sure that all pumps are free of air locks when power is turned on. Please be advised that air locking of the pumps may occur in this case. This is uncommon, but you need to bleed air from the pumps. To relieve an airlock situation, please follow the steps on the next page:

- 1) Turn off the pump by shutting off the power to your spa at the main breaker.
- 2) Remove the synthetic cabinet panels on the side of the spa to access the pumps.
- 3) Loosen the pump unions until you hear all the air escapes and water starts to drip out (see Figure 1).
- 4) Once water drips out in a continuous stream, hand tighten the unions until the water stops leaking.
- 5) Turn on the pump to make sure that there are no leaks.
- 6) Reinstall the cabinet side panel.

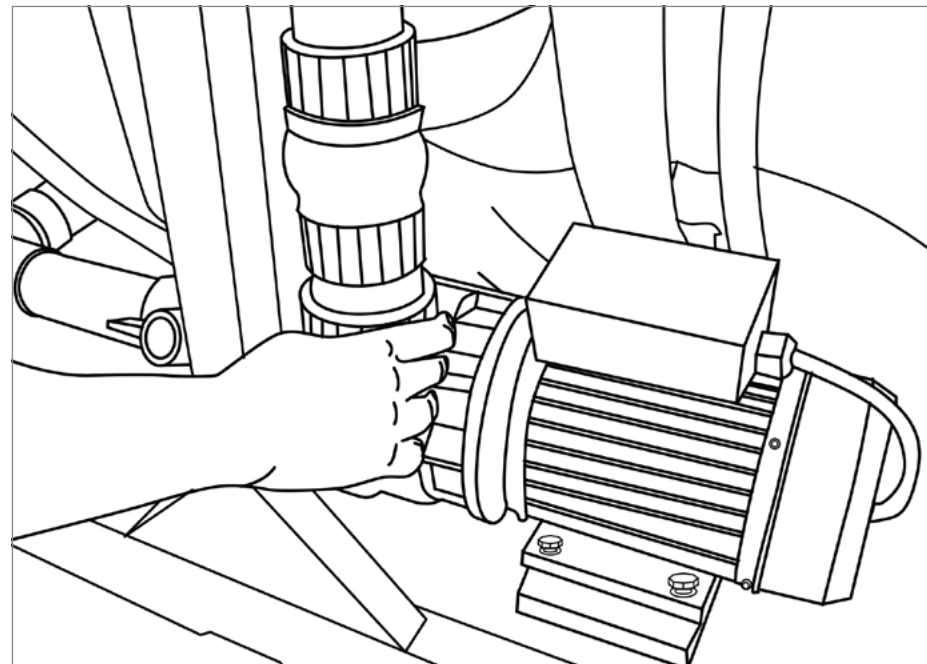


Figure 1

Feature Operations

Diverter valve

Your spa is equipped with a diverter valve (see Figure 2). This valve can be used to divert jet power from one area in the spa to another area. This valve is fully adjustable and can be used to suit the user's desired effect. The valve may be slightly harder to turn when the water pump is operating. This is normal due to high rate of water flow and pressure present in the valve.

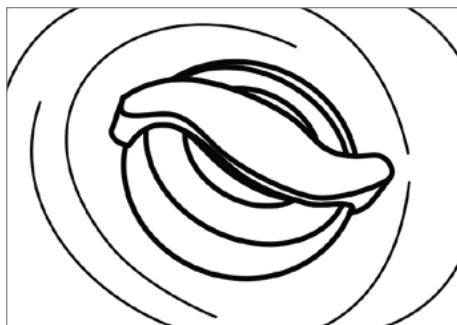


Figure 2 – Diverter valve

Air control valve

Your spa is equipped with some air control valves (see Figure 3). The air control valve is an on/off valve that allows air to be introduced into a specific jet configuration resulting in a more vigorous jet action. Turn the valve handle counterclockwise to turn the air on, and clockwise to turn the air off. Opening the valve increases jet pressure and closing the valve decreases the jet pressure.

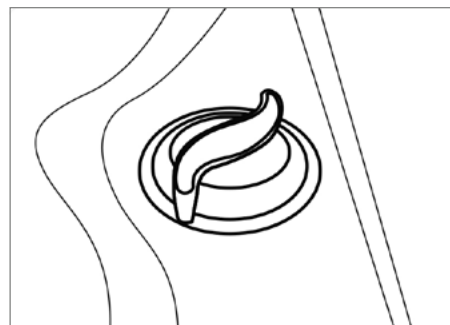


Figure 3 – Air control valve

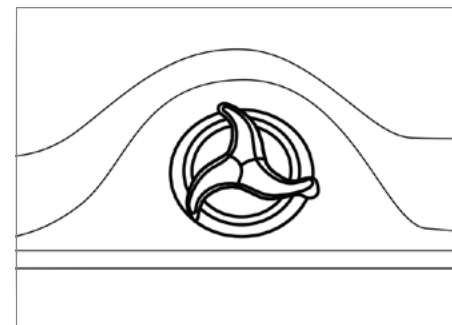


Figure 4 – Aromatherapy canister

Aromatherapy canister (optional)

Your spa is equipped with an aromatherapy canister (see Figure 4). This canister is to dispense your favorite fragrance via the champagne air bubble.

Waterfall/Fountain (optional)

Your spa may be equipped with a waterfall or fountain (see Figure 5) which is set into the top rim of the spa. Water from the spa circulation system flows into a closed end of a channel located in the top rim and along the channel to the open end located at the edge of the top rim on the inside wall to fall into the body of water in the spa.

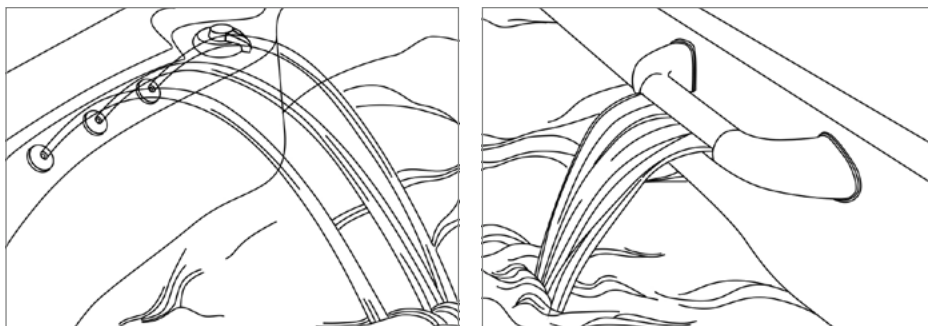


Figure 5 – Waterfall and fountain

Multi-Color of spa light

This feature allows the spa owner to retain a favorite color operation mode. There are 13 modes. And the color operation modes are available:

- » Spectrum Quick Dance: fade through all 8 colors, 1 second/color
- » Spectrum Slow Dance: fade through all 8 colors, 10 seconds/color
- » Color Burst: strobe effect change through all 8 colors, 5 seconds/color
- » Spectrum Slow Dance: fade through all 8 colors, 6 seconds/color
- » Spectrum Quick Dance: fade through all 8 colors, 0.05 second/ color
- » Red
- » Green
- » Blue
- » Yellow
- » Cyan
- » Orange
- » Purple
- » White

Draining your spa

Your spa needs to be drained, cleaned, and refilled approximately every 2 to 3 months. For heavier spa use, you may wish to change the water more frequently. The following is the recommended method for draining your spa.

- 1) Turn off the power to your spa at the main breaker.

Note: Do not leave an empty spa exposed for long periods of time in hot and sunny weather.

- 2) Remove the spa cover and allow the spa water to cool down.
- 3) Locate the drain valve (hose bib) of the spa (the drain valve is located behind the cabinet panel, see Figure 6 and Figure 7).

- 4) Grasp the hose bib cap and turn it counterclockwise. The hose bib fitting will then be able to be pulled out slightly and the cap can be removed. Attach a garden hose to the end of hose bib and allow the water to drain away from your spa. It will take most spas 3 to 4 hours to drain using the hose bib.
- 5) When all water has been evacuated, turn the hose bib fitting clockwise until it stops. Remove the garden hose, then screw the cap onto the end of hose bib.
- 6) Refill your spa; please follow the initial start-up procedures to reheat the spa.

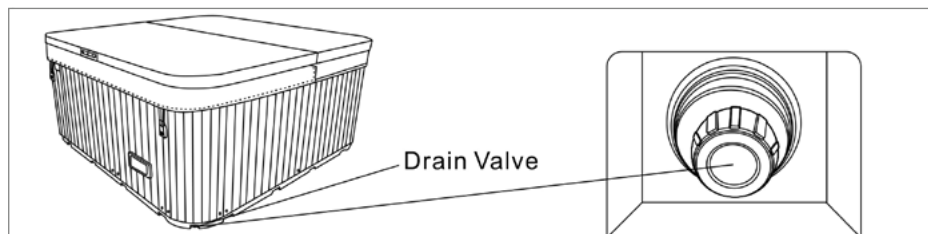


Figure 6

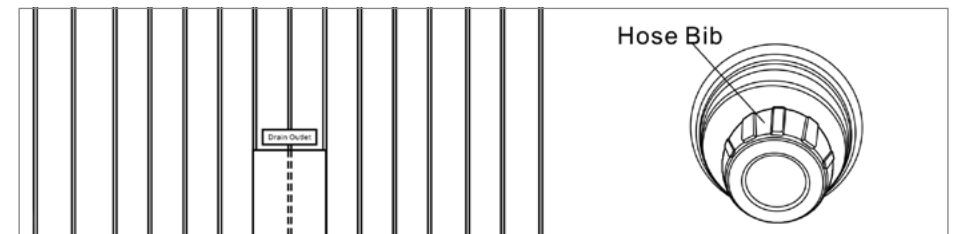


Figure 7

Spa Care and Maintenance

Filter cleaning

Your new spa has been designed for quick and easy filter maintenance. In initial start-up, the filter should be cleaned every other day for the first two weeks of operation. We recommend the filter to be cleaned once a week to avoid a decrease in jet performance. We also recommend having an extra replacement filter on hand, which is to install when cleaning the filter. To clean the filter, please follow the steps below:

- 1) Turn off the power to your spa at the main breaker.
- 2) Remove the filter lid / cup holder and set it aside.
- 3) Remove the floating weir and basket.
- 4) Remove the filter cartridge by pulling it out from the filter canister.
- 5) Clean the filter cartridge with a garden hose as follows:
 - a. Hold the filter cartridge vertically.
 - b. Spray the filter cartridge with a pressure nozzle, starting from the top and spraying down each pleat.
 - c. Turn over the filter cartridge and repeat step a & step b.

- 6) To reinsert the filter cartridge, please follow the steps in the reverse sequence.

Warning: Power to your spa must be turned off prior to removing and cleaning the filter. The suction at the filter is extremely strong and can cause injury if there is no filter. NEVER operate the spa without any filter in place or never use your spa without the filter properly installed. If done, damage will result to the pumps and other electrical components. Any damage to the electrical components due to this circumstance will not be covered under warranty.

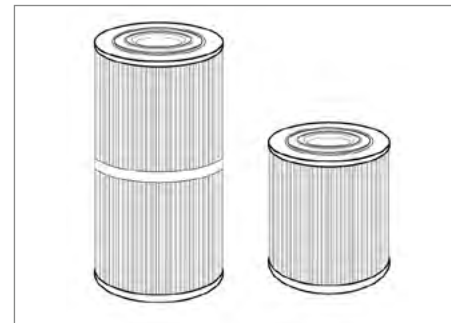


Figure 8 – Filter cartridge

Care for spa cover

Proper care and cleaning of your spa cover is an important part of routine maintenance. Dirt acts as an abrasive to the vinyl topcoat of spa cover, and can also cause wear to folds, seams, and stitching. Mildew growing on damp, dirty vinyl will begin to actually root in the fabric, accelerating failure. Your cover will last much longer if you heed the following suggestions:

- 1) Rinse the vinyl topcoat with cool water.
- 2) Spray with a gentle, non-foaming cleaner and wipe clean.
Never use laundry detergent, abrasives, alcohols, dish soaps or harsh cleaners.
- 3) These can actually remove some of the topcoat and cause premature vinyl failure.
- 4) For stubborn dirt, use a non-abrasive sponge.
- 5) Rinse the spa cover again thoroughly with water and allow it to dry completely.

Caution: Your spa cover is affected by the UV in sunlight. Periodic treatment with a liquid protectant will extend the life of your spa. The

wrong kind of protectant can be more harmful than no protectant at all. Keep any product away from your spa, which is labeled „flam-mable“ that contains any type of oil, or that leaves a waxy coating on your spa cover.

Note: Never stand or sit on the cover (The insulating foam in your cover is not designed to hold the weight of a person or an animal). Cracked foam in the cover is not covered under warranty! Never drag it over abrasive surfaces. Keep the spa covered when not in use! Doing so will be utilized to discourage unsupervised children from entering the spa and to minimize heat loss. Small locks are available for the cover tie downs.

Care for pillows

Remove and clean the pillows with soapy water and a soft cloth when needed. Use a vinyl conditioner once a month. Remove pillows when doing chemical shock treatment.

Warning: Do not use oil-based vinyl protectants on the pillows. These products will cause severe water clarity issues that are difficult to correct.

Care for jets

We recommend that you clean your jets when you drain your spa.

- 1) Remove the jet internal by turning it counterclockwise to the off position until it stops. Continue to turn the jet past the stop point to loosen it from the spa. The jet internal will now pull out.
- 2) Soak the jet internal in a mixture of one part vinegar to two parts warm water for 2 to 3 hours. Periodically rotate the spinner nozzle to break up residue in the jet.
- 3) Rinse the jet internal with warm water.
- 4) Reinstall the jet internal into the jet body and turn clockwise until fully seated, then tug to make sure it is seated properly. You can then continue to turn clockwise until it stops.

Care for spa surface

With a minimum amount of care and cleaning for the acrylic surface, your spa will look new for years.

After draining the spa, wipe the surface with a soft damp cloth (or sponge) using household soap or liquid detergent. Be sure to rinse detergent well as this will cause suds when refilling the spa.

Note: It is important that you do not use any abrasive cleaners or strong chemicals.

Any products with silicon or calcium should be used by caution, such as Shampoo and essential oil. As they will absorb dirty things in water, and then become stains on the surface of acrylic. Attention to clean the spa surface timely.

Care for spa cabinet

Your spa comes with a beautiful wood-looking synthetic cabinet. This synthetic cabinet requires little or no maintenance of any kind. To clean, simply wipe the cabinet panels with a clean towel and mild detergent soap solution.

Caution: Do not use any cleaning products containing abrasives or solvents since these could damage the surface of the spa cabinets and void your warranty.

Special cold weather instructions (winterizing)

Winter can be one of the most enjoyable times of the year to enjoy your spa. As it is difficult to get water out of the plumbing lines.

WE DO NOT RECOMMEND DRAINING YOUR SPA FOR THE WINTER.

A power outage can cause your spa equipment system to freeze quickly. During freezing conditions, check your spa frequently to ensure proper operation. Be sure to check your spa after any power failure to ensure the spa is operational.

However, if you decide not to use your spa during the winter, we recommend you winterize as follows:

1) If you drain your spa, turn off the main power to the spa. Drain as completely as possible. You may want to use a wet-vacuum or highpressure blower to evacuate as much water as possible.

2) When the spa is completely empty, loosen all pump unions and fittings to allow air and water to expand freely within the system. This should help prevent water from freezing and damaging pipes and fittings. The idea is to try to eliminate water from any sealed areas in the system.

For additional information on winterizing your spa, please contact your spa dealer.

Owner's Record

Model:

Serial number:

Shell colour:

Date delivered:

Date purchased:

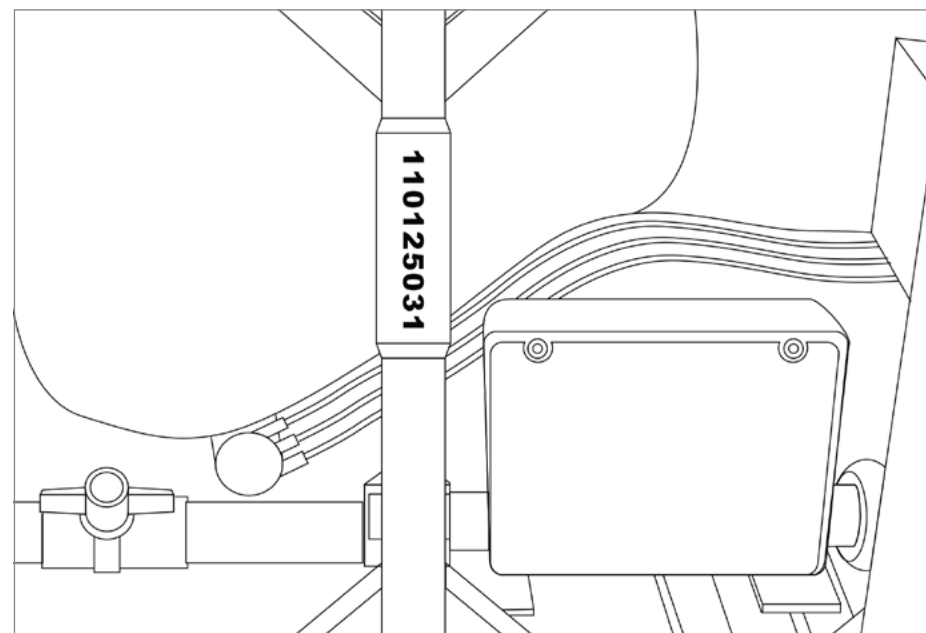
Date installed:

Dealer's name:

Dealer's address:

Dealer's telephone number:

Your unique spa serial number is written in blue on a wood block, which is located below the topside control panel behind the front access cabinet panel. Please record the serial number and model number of your spa along with the installation date in the space provided above. STORE THIS MANUAL WHERE YOU CAN EASILY FIND IT. When calling for service, have your spa serial number in hand to expedite its servicing.



Location of your serial number

Notes

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Impressum

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