



VITA
Spa®
GRAPHIC SERIES
OWNER'S MANUAL

VITA INTERNATIONAL
2320 N.W. 147th Street Miami, Florida 33054

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OWNER'S RECORD

DATE PURCHASED: _____

DATE INSTALLED: _____

DEALER: _____

ADDRESS: _____

TELEPHONE: _____

* SERIAL #: _____

MODEL #: _____

To contact our Technical Service Department, please write to Vita International, 2320 NW 147th Street, Miami, FL 33054 or call 1-305-685-2063, during normal business hours, Monday through Friday, 8:30 am to 5pm, EST.

*The Serial Number is located along the base of the spa. Please verify that the serial number is noted on your dealer's purchase contract.

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Congratulations!

Thank you for the purchase of your new VITA SPA. You are now the proud owner of one of the most comfortable and therapeutic spas in the world.

This Owner's Manual has been designed to familiarize you with your Vita Spa operations and general maintenance. We suggest that you take some time to carefully review it. Please keep this manual available for reference.

If you have any questions regarding your Vita Spa set-up, operations, or maintenance, please contact your Authorized Vita Spa Dealer.

Consumer satisfaction is important to us. We welcome your comments and suggestions. Please share them with us via telephone, letter, or E-mail us at vaspa@dmindustries.com.

Sincerely,

Eric Dormoy

President

DM Industries, Ltd.

IMPORTANT SAFETY INSTRUCTIONS

WHEN INSTALLING AND USING THIS ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

WARNING – To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

DANGER – RISK OF ACCIDENTAL DROWNING. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children can not use the spa unless they are supervised at all times.

A ground terminal (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 8 AWG (8.4 mm²) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within five feet (1.5m) of the unit.

DANGER – To reduce the risk of injury to persons, DO NOT remove suction fittings. The suction fittings on 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 that the flow rates are compatible. Never operate the spa 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.

Install the spa – so proper drainage is provided for the compartment containing electrical components.

DANGER – RISK OF ELECTRICAL SHOCK – Install at least 5 feet (1.5 m) from all metal surfaces. (A spa may be installed within 5 feet of a metal surface if each metal surface is permanently connected by a minimum No. 8 AWG (8.42 mm²) solid copper conductor attached to the wire connector on the terminal box that is provided for this purpose). National Electrical Code ANSI/NMFP A70-1993.

DANGER – RISK OF ELECTRICAL SHOCK- Do not permit any electrical appliances, such as a light, telephone, radio, or television within 5 feet (1.5 m) of the spa.

WARNING – TO REDUCE THE RISK OF INJURY:

- A.** The water in a spa should never exceed 40 degrees Celsius (104 degrees F). Water temperatures between 38 degrees C (100 F) and 40 degrees C (104 F) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 minutes) and for young children.
- B.** 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 spa temperature to 38 degrees C (100 F).
- C.** Before entering a spa, the user should measure the water temperature with an accurate thermometer, since the tolerances of water temperature regulating devices vary.
- D.** The use of alcohol, drugs, or medication, before or during spa use, may lead to unconsciousness with the possibility of drowning.
- E.** Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulation system problems, or diabetes, should consult a physician before using a spa.
- F.** Persons using medication should consult a physician before using a spa since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure and circulation.

SAVE THESE INSTRUCTIONS

DO'S AND DON'TS

- DO** — Make sure the spa is connected to a Ground Fault Circuit Interrupter (GFCI) protected circuit. This GFCI is required by the National Electrical Code (NEC) and must be installed by a licensed electrician. Test the GFCI monthly.
- DO** — Test the water with your hand before entering the spa to be sure it is comfortable.
- DO** — Remember that wet surfaces can be slippery. Take care when entering and exiting the spa. Only enter by way of the steps in the spa. Do not step on spa edges or filter lids.
- DO** — Use the thermal cover when the spa is not in use, empty or full.
- DO** — Take steps to prevent the intrusion of sand and dirt into the spa.
- DO** — Maintain proper water chemistry.
- DO** — Clean the filter cartridge weekly.
- DON'T** — Use the spa for long periods of time at temperatures over 104° F.
- DON'T** — Operate the spa without water. Turn the circuit breaker off before emptying the spa and while it is empty.
- DON'T** — Store chemicals in the spa's equipment compartment.
- DON'T** — Open the electrical box. There are no user serviceable parts inside.
- DON'T** — Operate the pump(s) on hi-speed for extended periods of time with the cover on. Extended hi-speed pump operation will cause a slow heat build-up due to water friction, which could trip the spa's hi-limit thermostat.

WARNINGS

Prolonged immersion in water that is warmer than normal body temperature can result in a dangerous condition known as HYPERTHERMIA. The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 degrees F. The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit the spa, (4) physical inability to exit the spa, (5) fetal damage in pregnant women, and (6) unconsciousness resulting in a danger of drowning.

WARNING – The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in spas. Persons taking medications that induce drowsiness such as tranquilizers, antihistamines or anticoagulants should not use the spa. Pregnant women and persons with a medical history of heart disease, circulatory problems, diabetes or high blood pressure should consult their physician before using the spa.

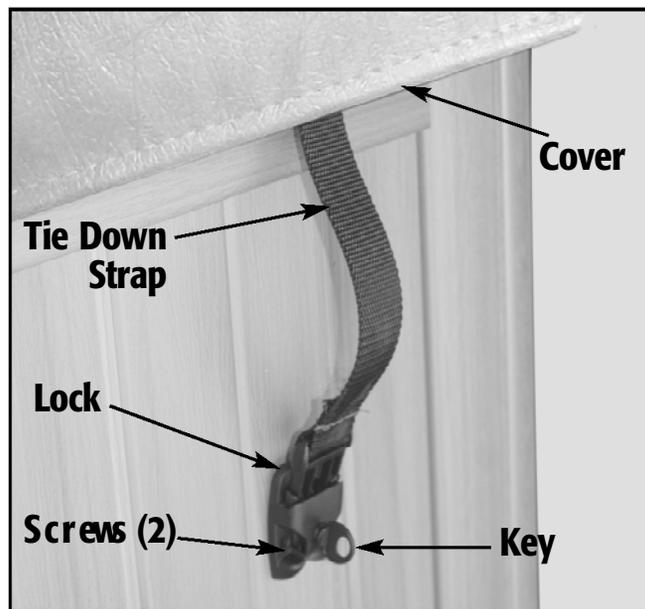
Children are especially sensitive to hot water. At no time should children have unsupervised access to the spa. The use of elevated decking may encourage children to climb onto the thermal cover – **IT IS NOT DESIGNED AS A SAFETY OR CHILD RESISTANT COVER!**

Every Vita Spa comes with a thermal cover which is provided with locking straps. **Install the locks for your child's safety.**

ALL WIRING TO THE SPA SHOULD BE IN ACCORDANCE WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES. ALL WIRING SHOULD BE PERFORMED BY A LICENSED ELECTRICIAN KNOWLEDGEABLE IN THE OPERATION AND WIRING OF A GFCI PROTECTED SYSTEM.

1. The spa must be permanently connected (hardwired) to the power supply. No extension cords or plug-type connections are to be used in conjunction with the operation of the spa. Failure to supply power to the spa that is not in accordance with these instructions could create a potential health hazard and will void both the manufacturer's warranty and the independent testing agency listing.
2. **The National Electrical Code (NEC) requires that the power supply to this spa must be a dedicated, ground fault circuit (GFCI) protected circuit with no other appliances or lights sharing power on this circuit.**
3. Refer to the wiring diagram posted inside the electrical equipment door to determine the current, voltage, and wire size requirements for your spa.
4. THHN type wire is recommended. The wire size for the distance of the wire run must conform to NEC and local electrical codes.
5. To ensure proper connections use copper conductors only.
DO NOT USE ALUMINUM WIRE.
6. The spas' power terminal strip is located within the electrical control box.
7. **Feed supply conductors through power supply inlets provided on the spa and install into the control box. Modifications to the electrical equipment box are not permitted. Drilling holes in the electrical control box to provide access for wires in areas other than those provided for will void the manufacturer's warranty and the independent testing agency listing.**
8. Connect wires to terminal block (TBI) color for color. All wires must be connected or damage may result. **TIGHTEN SECURELY!**

COVER INSTALLATION



INSTALLING THE SPA COVER

1. Position the cover squarely over the spa.
2. Position the locks for the tie-downs on the sides of the spa. You should allow approximately 1/2" to 3/4" slack in the straps for ease of insertion into the locks and to allow for material shrinkage during temperature changes.
3. Using the screws provided, attach the locks and insert the cover tie-down straps. Utilizing the cover anytime the spa is not in use will reduce heat loss and thereby reduce the amount of running time required to make up that loss by the heating system.

Keep cover fastened down at all times when not in use.

DANGER - RISK OF INJURY

To reduce the risk of potential injury:

1. **Never leave a spa uncovered or unattended.**
2. **Never leave a spa cover unlocked.**
3. **Do not stand, sit, or lie on the cover.**

ALWAYS REMOVE SNOW FROM THE COVER. THE COVER HAS NOT BEEN DESIGNED TO SUSPEND THE WEIGHT OF WET SNOW.

OPERATING INSTRUCTIONS

Welcome and congratulations on your purchase of the newest and latest technological topside control for hot tub performance and personal comfort.

Before we start getting to know the operations of the topside control, let's go over a few things. The six buttons alongside the display screen work in conjunction with the displayed boxes. Pressing any one of them will open or activate the item identified in each box.



The first step is to touch the button next to the **"DISPLAY"** box. This will open a screen that allows you to brighten or darken the display.



Use the **UP** or **DOWN** arrows to adjust the display to your preferred level of viewing.

Once that is accomplished, you may want to invert the screen to make it easier to read from your position inside or out of the hot tub.



Press the **"INVERT"** button and the screen will clear and reset itself. As with many computer screens, the change in display may take up to 30 seconds to be completed.

If at anytime you choose to change your viewing setting to the factory default, merely press **"RESET"** to return to the default settings



So now let's go back to the beginning by pressing the **"BACK"** button.

"Screen Saver" appears when display has been idling for more than 1 minute.

Press any button to restore display.



USING YOUR SPA



"Welcome" screen give you the option of going into any of the operations

Press **"Mood"** for spa options.

Press **"Help"** to view directions for this screen

Press **"Back"** to return to "Mood" display.



Press **"LIGHTS"** to cycle through light sequences.



Use **"ON/OFF"** button to activate lights

Use **"ARROWS"** to select color
The upper right button shows the level of brightness.

Press the button to cycle through **SOFT, NORMAL, or BRIGHT** lights.

Use "**BACK**" to return to "**MOOD**" display



Press "**MEDIA**" to enter stereo mode

Use "**SOURCE**" to cycle through Line, TV, AM, and FM



Use "**SELECT**" to change from media to "**VOLUME**" to "**BASS**"

Use "**ARROWS**" to adjust accordingly.

Press "**BACK**" to return to welcome screen.



Press "**DISPLAY**" to enter displaying mode.

Press "**THERAPY**" to operate the pumps.

Press "**SOAK**" to operate Low Speed on pumps 1 and 2

Press "**JET 1**" to operate high speed pump 1

Press "**JET 2**" to operate high speed pump 2

Press "**JET 3**" to operate high speed pump 3.

Press "**BLOWER**" to operate the aroma therapy option.



Press "**Back**" to return back to main screen.



Press **"SETUP"** to enter section.

The setup section will allow adjustments to
"TEMPERATURE"
"TIME / DATE"
"SKIM AWAY"
"CIRCULATION"
"LOCK SPA"
"FEHRENHEIT"
"CELCIUS"
"COUNTRY CODE"



Use **"UP"** and **"DOWN"** arrows to cycle past the selections. Use the **"SELECT"** key to choose your selection then adjust accordingly. Press **"BACK"** to return to main screen.



Let's continue so this may be personalized for you.



Press **"MY SPA"** to enter your personal settings.



After pressing **"EDIT"** you may now enter name then **"SAVE"**. You will notice your name displayed on main screen.

The name entered and all your own personal setting are saved on the system

The set programming name setting will appear on screen in the **"WELCOME"** area



The set programming name setting will appear on screen in the **"WELCOME"** area.



If there is an error that the spa has found it will flash "**RUN SELF TEST**" will flash on your screen.

You then press "**MAINT**" to enter the maintenance mode you will have to be in.



Press "**STATUS**" to view status of pump setting, amp draw, and other settings



Status screen, press any button to return



Press "**MAINT**" to enter servicing section.

Press "**TEST**" to enter systems check.

Press "**BEGIN**" to start 4:00 minute countdown for testing.



"ALL GOOD"
No problems found



"Error: "
Problem found will display

JET OPERATION

Your Vita Spa is designed with a unique jet system to allow you to select a wide variety of massage patterns. The following is a description of the various types of jets and their operation you may use to tailor your spa to your specific massage needs.



(A) SELECT-A-SWIRL™ JETS

The water flow direction is adjustable by rotating the directional jet nozzle. The amount of pressure can be adjusted by rotating the outer rim of the jet(s) clockwise for minimum pressure and counter-clockwise for maximum pressure. Pressure may also be varied by the use of the air control.

This jet can be removed for cleaning by turning the outer ring counter-clockwise until you feel it stop. Then slightly apply pressure in the same direction to overcome the "stop". The jet can then be pulled out of the jet body for cleaning. To install the jet, insert the jet back into the body and turn clockwise.



(B) PULSATOR JETS

Interchangeable with SELECT-A-SWIRL™ and QUAD STREAM™ jets. Water pressure can be adjusted by rotating the outer rim of the jet(s) clockwise for minimum pressure and counter-clockwise for maximum pressure. Pressure may also be varied by the use of the air control.

This jet can be removed for cleaning by turning the outer ring counter-clockwise until you feel it stop. Then slightly apply pressure in the same direction to overcome the "stop". The jet can then be pulled out of the jet body for cleaning. To install the jet, insert the jet back into the body and turn clockwise.

(C) QUAD STREAM™

Interchangeable with SELECT-A-SWIRL™ and PULSATOR JETS. It is one powerful jet, whose force, redirected into four different directions, results in strong, even vibrations to soothe those overworked calf muscles.



(D) TURBO JET

The Turbo Whirlpool Jet is not individually adjustable. To adjust the flow, you must open or close air control valve.

The Turbo Whirlpool Jet utilizes a high flow design to create a powerful whirlpool current throughout the spa. It's great for working out the hard to relieve knot. For cleaning purposes, the Turbo Jet face can be removed by turning the face counter clockwise. Re-install by pushing the face in and turning clockwise.



(E) THREE-WAY POWER DIVERTER VALVE

This valve is functional when the primary or secondary, two-speed pumps are operating. Water may be diverted to two individual sections of jets or a combined operation of both sections.

Do not adjust when pump is set at high speed.

For the operation of a specific spa, review the following:



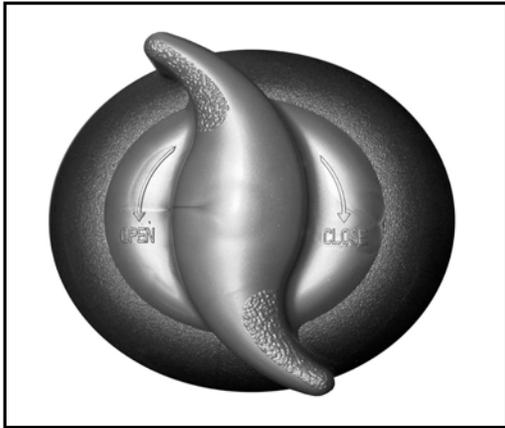
(F) CLUSTER JET

These jets work as a team, that's why they're usually found in groups of two or more. They can deliver vigorous pinpoint action for a therapeutic effect, or you can turn into soothing massage with just a twist of your finger.



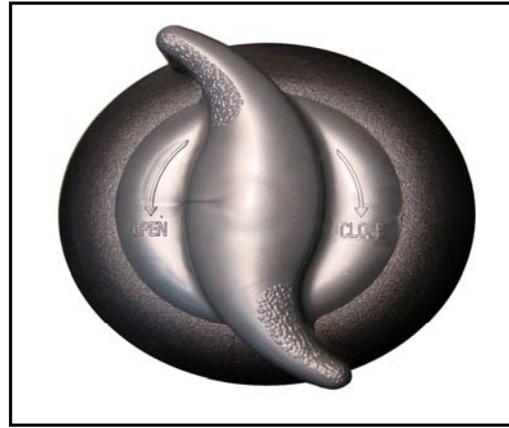
(G) MIDI DIRECTION & MIDI SWIRL (TENSION EASE™)

Creates a powerful massaging action that penetrates deep into your upper back, neck and shoulders—the areas most commonly afflicted by tension. Adjust the pressure to your own comfort level.



(H) AIR CONTROL

The Air Controls are used to introduce air into the water jet stream. They allow the user to increase (open) jet pressure or decrease (close) jet pressure as desired.



(I) WATERFALL OPERATIONS

On the Nuage and Romance model spas. This valve increases or decreases volume of water from the waterfall. On the Nuage, a second valve of this type increases or decreases the volume of water from the Colorado River Jet.™



(J) FRAGRANCE INJECTORS

These injectors blow thousands of air bubbles while at the same time allowing the VitAroma scents to be released.



VITAROMA

INJECTION SYSTEM

VitAroma therapy offers the unique benefits of combining Aroma and Hydrotherapy. Simply defined, aromatherapy is the practice of using pure essential oils – the highly concentrated extracts of plants, herbs, and flowers – to improve one’s feelings of well being through the acute sense of smell.

Your spa is equipped with a unique “Above the Water” aromatherapy induction system. To activate VitAroma, insert one of Vita Spa’s exclusive aromatherapy scents and turn on the VitAroma Induction System. The system is activated when the air blower button is depressed. This system dispenses aromatherapy through the small ports adjacent to the spa pillows and through the underwater air injection system. Experience the wonder and pleasure of aromatherapy. It will soothe your senses and invigorate your spirit.

To extend the lifespan of the VitAroma beads, it is recommended that they be removed from the spa and stored in the resealable packet after each use. VitAroma aromatherapy scents are available exclusively from Vita Spa Dealers.

WATER PURIFICATION SYSTEM

VITAZONE

Located in the equipment compartment, the VitaZone ozonator converts O₂ into O₃. In such form, it acts as an oxidizer, and reduces the need for sanitation (bromine or chlorine).

BIOZONE

The L700C series spas are equipped with our exclusive BiOzone purification system. BiOzone is the combination of ozone (a strong oxidizer) and Sparkle Clear, our trademarked mineral sanitation system.

SPARKLE CLEAR (L700C Series)

The cartridge is housed in your filter attached to the filter cap. It works in conjunction with the Vitazone ozonation system. Sparkle Clear sanitation procedures are different than conventional means, therefore you must carefully follow the Sparkle Clear instructions.

PURIFIER START UP

Upon filling your spa, balance the water per dealer guidelines. Add 1 teaspoon of dichlor to the spa per 250 gallons.

EVERY DAY

No action required.

BEFORE EACH USE

Add 1 tablespoon of potassium peroxymonosulfate (MPS) to spa per 250 gallons

ONCE A WEEK (if required)

Per "Brand" guidelines, shock with a chlorine or bromine shock.

EVERY 4 MONTHS

Drain and refill spa.
Replace SPARKLE CLEAR cartridge.

AS NEEDED

If water looks hazy, shock treat with 1 teaspoon of dichlor per 250 gallons.

NOTE: Potassium peroxymonosulfate may cause a lowering of the pH and total alkalinity of your spa water. Please monitor pH and total alkalinity at least once per week and adjust accordingly.

SPA MAINTENANCE

Your Vita Spa is manufactured with the highest quality and most durable materials available. A spa care and maintenance program is recommended to increase your comfort, maintain the spa's reliability, and protect your investment.

FILTER MAINTENANCE

Vita Spas are designed with the most efficient top loading filtration system in the industry. Filter maintenance is the most critical factor in keeping your spa water clean.

TO CLEAN THE FILTER:

(NOTE: Never run the spa without a filter installed)

Remove the cartridge and spray it with a garden hose. It will be necessary to rotate the cartridge while spraying so as to thoroughly remove the debris lodged between the filter pleats.

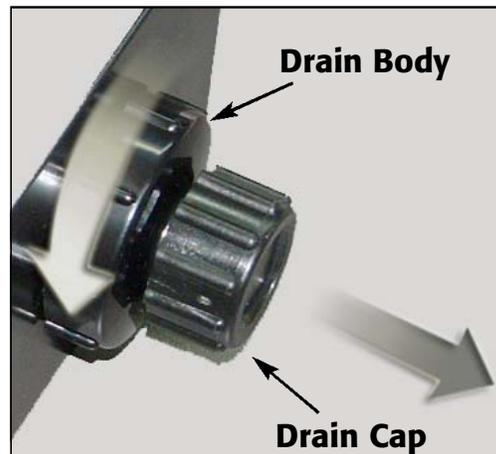
After allowing to dry, inspect the cartridge for calcium deposit (scaling) or an oil film. Rapid mineral build-up from hard water, or oil build-up from the use of oil-based water scent or body oil may coat the filter cartridge. A filter cleaner to soak the cartridge is available from your Vita Spa dealer and should be used as part of your spa maintenance. Use a rag to remove any debris at the bottom of the filter housing and inside the filter screen. Replace the cartridge in the filter housing. We recommend the use of a spare filter. This way one can be soaking and cleaning while you continue to enjoy the use of your spa.

DRAINING YOUR SPA

Detergent residues from bathing suits as well as soap film from your body may gradually accumulate in the water. Foam inhibitors will suppress the foam but will not remove the soap from the water. Eventually, the soap build-up in the water will concentrate enough to leave an unclean feeling on the user's skin, causing sudsing and make the water impossible to clarify. Depending on the amount of soap input, the spa water should last between two and three months.

TO DRAIN YOUR SPA

Turn the power off at the GFCI breaker. To locate drain look at the front base of the spa. Once located remove cap by turning it counterclockwise. Attach a garden hose to the bib that is located directly behind the cap, once removed. Route the outlet of the hose to an appropriate draining area. Twist body then pull. The spa will empty by gravity. Siphon or scoop out the balance of the water.



IMPORTANT: Spa water with a high sanitizer level may harm plants and grass. If you are draining your spa for the winter, be sure to fully drain water from the pipe by disconnecting the two unions at the gate valves found by each of the two speed pumps and the two unions found by the circulation pump. Drain the water pumps by removing the pump plug. Then reinstall the pump plugs. Remove the filter and clean as required. Inspect the spa shell and clean as required.

Refill the spa BEFORE restoring power to it.

SPA MAINTENANCE

WINTERIZING YOUR SPA

Your Vita Spa has been designed and engineered for year-round use in any climate. If the spa will not be used for prolonged periods of time, contact your local authorized service station to properly drain and protect your spa.

EXCEL-PLUS CABINET MAINTENANCE

The exterior of your Vita Spa cabinet is made from a newly formulated high strength material that is factory stained and sealed. Depending on the location and exposure of the spa to nature's elements, it is recommended that you clean the cabinet once or twice a year with warm water and a mild soap.

COVER MAINTENANCE

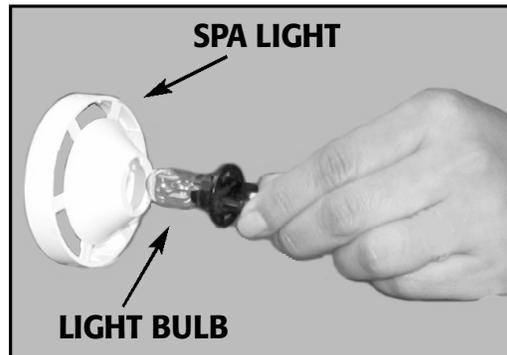
Your cover is manufactured from a durable marine grade, UV resistant material. Even so, monthly cleaning and periodic conditioning is recommended to maintain its beauty. To clean and condition the vinyl cover: Lightly spray the cover with a garden hose to rinse it and remove the debris. Using a large sponge or soft cloth and a mild soap solution (1 teaspoon dish washing liquid with 2 gallons of water), scrub lightly in circular motion. Then rinse it thoroughly with plenty of water. Condition the vinyl after cleaning by applying a thin film of vinyl conditioner. NOTE: To remove tree saps, use lighter fluid (not charcoal lighter but the kind used in cigarette lighters). Use sparingly and rinse with mild soap solution afterwards. Wipe dry.

CARE OF ACRYLIC SURFACE

To maintain the surface of your spa, simply clean with a soft damp cloth (a mild detergent is okay) or with any glass cleaner. DO NOT clean the surface with any type of abrasive as it will dull the surface and natural luster of the acrylic. DO NOT use any type of oil based solvent. Such products can be very harmful to the surface of the spa and will void the surface warranty of the spa.

SPA LIGHT COLORED LENS REMOVAL

In your owners packet you will find colored lenses for your spa light. They can easily be installed or removed by placing them over the spa light and gently pushing on the outer edges to install and pulling along the edges to remove.



LIGHT BULB REPLACEMENT

1. Turn off the power to the spa.
2. Remove the front panel of the spa.
3. Locate the spa light.
4. Turn the bulb counter - clockwise 1/4 turn to remove from its socket
5. The replacement bulb is locked into place by turning it clockwise 1/4 turn
6. Close up the cabinet and turn the power back on.
7. Check the Top Side display and adjust the time.

CARE OF SPA PILLOWS

The spa pillows will provide years of comfort if treated with care. Each pillow has been positioned above the water level to minimize the bleaching effects of chlorinated water and other spa water chemicals. It is recommended that pillows be removed and cleaned each time the spa itself is cleaned. A mild soap and warm water works best in removing body oils. ALWAYS rinse the pillows off thoroughly after applying any type of soap to assure that no residue remains. If you are winterizing your spa or do not plan on using it for a while, it is best to remove the pillows until the next use. Pillows should always be removed whenever the spa is being superchlorinated.

SPA MAINTENANCE

DIVERTER VALVE

Over a period of time sand or grit may intrude into your spa. The diverter valves may become difficult to turn. It is important that the debris be removed as soon as possible to avoid damage to the valve.

1. Turn off the power to the spa.
2. Remove the diverter handle by pulling upward and gently rocking it.
3. Grasp the collar and turn it counter-clockwise.
4. Lift the valve body up.
5. Wipe the valve body and interior walls of the valve with a soft cloth.
6. Inspect the valve and valve walls for any grooves caused by the debris.
7. Using a fine grit sandpaper, smooth down any deep furrows.
8. Wipe the valve and wall down with a damp cloth and remove any debris left behind.
9. Lubricate the valve body with a waterproof lubricant.
10. Reassemble the valve and restore the power to the spa.
11. Check the Top Side display and adjust for time.

PRIMING THE PUMP

Every so often after a spa is filled or refilled a pump is operating but the water is not flowing from any of its jets. This is a sign that the pump did not properly prime.

To correct, please perform the following:

1. Turn off the power to the spa.
2. Remove the front cabinet panel.
3. Turn the power back on and locate the pump by listening to the pumps and cycling them to determine which pump is not primed.
4. Turn the power back off.
5. Locate the union on the top of the pump and loosen it to allow the air to escape. When water begins to flow out of the union, hand tighten the union.
6. Turn the power back on to the spa. Activate the pump and check to make sure that the union is tight enough to keep from leaking.
7. Reinstall the cabinet panel and adjust the Top Side display for time.

Fountain Jet (L700C)

1. Remove cover off of Fountain Jet
2. Using a pair of needle nose pliers pinch the nozzle and pull.
3. Remove bottom of nozzle
4. Using warm soap & water to clean any debris found.
5. Put pieces back together
6. Slide nozzle into jet over the light and push as far as possible.
7. Replace cover back on jet.

WATER QUALITY AND MAINTENANCE

GENERAL GUIDELINES FOR WATER QUALITY MAINTENANCE

Maintaining water quality within specific limits will enhance your enjoyment and prolong the life of the spa. Safe, comfortable and clean spa water is a fairly simple task to achieve, but it does require attention because of the numerous factors that can alter it. There is no one formula to be followed because of the variables, i.e. quality of the water used to fill the spa, water temperature, user load, etc. For specific guidelines for water quality maintenance, consult your Vita Spa dealer who can assist you to develop a program based on your specific needs. Disregard for water maintenance will result in poor soaking conditions, damage your spa investment, and possibly void your warranty.

SPA WATER MAINTENANCE CONSISTS OF THREE SEPARATE, EASILY DEVELOPED PROGRAMS:

Sanitizing and maintaining a safe level of sanitizer in the spa water. Balancing the pH and maintaining the recommended mineral content level. Achieving and maintaining water clarity.

SANITIZING

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. The use of ozone as an oxidizer has proven to be an effective method to help maintain water cleanliness, but a residual chemical sanitizer such as bromine, the most common sanitizer used in spas, must be used in conjunction with ozone. Do not drop bromine tablets directly in the spa. The use of a floater is required to dispense safely and properly the right amount of bromine in the spa water. A bromine residual of 2 to 3 PPM is generally considered desirable. A two-part bromine system or granular chlorine (Dichlor) are also acceptable sanitizers.

pH CONTROL

pH is a measure of acidity and alkalinity of the spa water. The recommended pH for spa water is 7.4 to 7.6 PPM. Below 7.0 (considered neutral), the spa water is acidic and can cause damage to the heating system. Above 7.8 the water is too alkaline and can result in cloudy water and scale formation on the spa shell, heater and cover.

IMPORTANT: NEVER USE CHLORINE TABLETS (TRICHLOR) IN YOUR SPA.

This chemical can have an extremely corrosive effect on certain materials in the spa. Also, the use of liquids, chlorine or acid, are not recommended. Damage caused by use of any chemical, is not covered under the spa warranty.

OZONE WATER PURIFICATION SYSTEM

The use of Ozone has become very popular in spas as a water treatment method. In addition to being a strong oxidizer, Ozone makes spa waters easier to maintain, creates "softer" water with no skin or eye irritation, reduces chemical sanitizer by up to 70% and helps provide a pleasant, sparkling environment.

Used in conjunction with a residual chemical sanitizer such as bromine, Ozone provides the safest and most effective way to ensure maximum water quality.

Your spa comes equipped with a 24-hour BIOZONE water purification system, the most efficient and effective system to introduce ozone in spa water. After being filtered and heated, the spa water goes through a venturi ozone injector known as a "Vitazone Injector". The Vitazone Injector draws ozone from a high efficiency ozone generator and mixes it under pressure with the water. The ozonated water travels around the spa before it is discharged into the main body of water. The Vitazone injector and travel time provide optimum ozonation effectiveness with minimum undissolved ozone release.

IMPORTANT WATER MAINTENANCE PROCEDURES

DAILY

3 days a week

Check water level. Keep water above bottom of skimmer door and a minimum of 1" above highest jet.

Check and adjust chlorine level to 1.0 to 3.0 ppm if chlorine is used as sanitizer. If Sparkle Clear is used, check weekly.

WEEKLY

Once a week

Test the spa water using 3-way water test strips

Adjust pH and total alkalinity. pH: 7.4 to 7.6 (ideal 7.6).

Total Alkalinity: 80 to 120 ppm

Maintain 1.0 to 3.0 ppm bromine or free chlorine.

Add 1 ounce of additive, such as "Spa Defender," to prevent calcium build-up.

Calcium hardness: 120 to 250 ppm.

Spray filter element to remove loose particles.

MONTHLY

Four to six weeks

Inspect and clean the spa filter cartridge. It is important to maintain your spa filter cartridge and keep it clean and free of particles which can restrict water flow. If the filter is not cleaned on a regular basis, the filter may clog and restrict water flow, which causes improper filtration and poor jet performance. See "Filter Cleaning" instructions.

Two to three months

Drain your spa. Follow the procedures outlined in "Draining Your Spa" page 22 and clean it following the procedures on page 23. When refilling your spa, be sure to follow the procedures outlined in "Balancing Your Spa Water" on the next page.

WATER MAINTENANCE

BALANCING THE SPA WATER

Water treatment is an important factor in the enjoyment of your Vita Spa. Proper water sanitation is essential to your health as well as permitting years of trouble-free use of your spa. The most common water chemistry problems that can damage your spa are:

1. Improper pH maintenance. pH balance is critical to proper water maintenance. Too low of a pH level will result in corrosion of the spa's components.
2. Not pre-dissolving chemicals before adding to the water.
3. Use of improper chemicals.
4. Over chlorination. Sodium dichlor is the recommended type of sanitizer. Sodium dichlor dissolves easily and has a neutral pH, which minimizes the effect that the addition of a sanitizer has on a pH balance. Trichlor compounds are not recommended because they have a very low pH, and are very potent and difficult to dissolve.

BALANCING YOUR SPA WATER

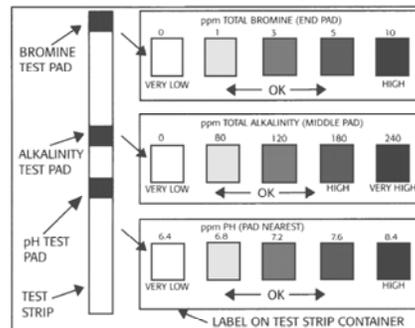
The instructions below will assist you with balancing the spa water for the first time. You will need the following items to balance your spa water.

1. "3-WAY TEST STRIPS"
2. "PH-UP" and "PH-DOWN" for pH control.
3. "MINERAL SURFACE PROTECTOR" for Calcium and Scale control.
4. "METAL INHIBITOR" for breakdown of mineral deposits.
5. "POTASSIUM PEROXY-MONOSULFATE" for shock treatment.
6. "BROMINE" or "CHLORINE" for sanitizing the spa water.

Please read "WATER MAINTENANCE" then follow these easy steps:

1. Fill your spa until the water level is 1 inch above the highest jet. It is NOT advisable to use softened water in your spa, as may become corrosive.
2. Add a 1/2 pint of Spa Metal Inhibitor to prevent iron or copper deposits from staining the finish of your spa. If your water is known to contain high concentrations of these metals it may be necessary to add an additional quantity of Spa Metal Inhibitor.

3. Use a 3-Way Spa Water Test Strip or test kit to measure the pH and Alkalinity of your water. The following instructions utilize test strips for testing. Immerse the test strip in the spa water, following the instructions on the test strip container label. Compare the strip to the label to determine the condition of the spa water.



4. If the Alkalinity is not within the acceptable range (80 to 120 ppm) it should be adjusted first. If it is low, raise the alkalinity by adding PH-UP 1 oz. at a time, retesting until the alkalinity reaches 120 ppm. If the alkalinity is high, it should be lowered by using PH-DOWN 1 oz. at a time.
5. After the alkalinity is properly adjusted, the pH is next. If the pH is above 7.8, use PH-DOWN (1 oz. at a time) to lower it to the acceptable range. It is extremely important to NEVER allow the pH of your spa water to be under 7.0, as this can severely damage your equipment and will void the warranty.
6. Add Sanitizer, either chlorine or bromine. For Chlorine: Follow the directions on the bottle. Chlorine dissolves rapidly; you should get a reading on the test strip within minutes of application. For Bromine: Follow the directions on your floating brominator. It is necessary to add sodium bromine only when the spa is being filled. Bromine tablets erode slowly, and it may take several hours before you will get a reading on the test strip. It may be necessary to adjust the floating brominator.
7. To properly maintain the chemical balance of your spa, follow the 3 day a week program outlined on pages 27 and 29.

BALANCING THE SPA WATER

3 DAY A WEEK SPA CARE PROGRAM

MONDAY

1. TEST THE WATER USING "3-WAY SPA WATER TEST STRIPS".
2. Adjust pH and total alkalinity - Refer to pH and total alkalinity on label of "PH-UP" and "PH-DOWN".
3. Maintain 1.0 to 3.0 ppm Bromine or free Chlorine.
4. Add 1 ounce of "METAL SURFACE PROTECTOR" to prevent calcium build up.
5. Shock treat with 2 ounces of "POTASSIUM PEROXY MONOSULFATE", a non-chlorine shock, every week as needed.

WEDNESDAY

1. Nothing required if Bromine is used as sanitizer. Check and adjust Chlorine level if Chlorine is used.

FRIDAY

1. Nothing required if Bromine is used as sanitizer. Check and adjust Chlorine level if Chlorine is used.

Note: The above table is an example only. Actual spa usage will determine the amount of chemicals required to maintain proper chemical balance.

ALKALINITY

VERY LOW	0	ADD SODIUM BICARBONATE TO INCREASE
ACCEPTABLE ZONE	80	IDEAL
	120	
HIGH	180	ADD SODIUM BISULFATE TO DECREASE
VERY HIGH	240	

pH LEVEL

TOO ALKALINE	8.4	ADD pH DECREASER TO LOWER pH
SCALING ZONE	8.2	
	7.8	
COMFORT ZONE	7.6	IDEAL
	7.4	
	7.2	
TOO ACIDIC	7.0	
CORROSIVE ZONE	6.8	ADD pH INCREASER TO RAISE pH

SANITIZER LEVEL

ppm	DO NOT USE SPA UNTIL TEST KIT READING IS BELOW 5.0 ppm
5.0-	RECOMMENDED LEVEL SAFE
4.0-	
3.0-	
2.0-	DO NOT USE SPA ADD SANITIZER TO REACH RECOMMENDED LEVEL
1.0-	
0-	

WATER MAINTENANCE DO'S AND DON'TS

DO Add all chemicals slowly with the hydro jets operating in high speed.

DO Use care when handling chemicals.

DO Store granulated chlorine in a cool, dry place to maintain the chlorine's freshness. Granulated chlorine will degrade if stored improperly or for a long period of time. Do not store in sunlight.

DO Maintain total alkalinity level within the recommended range of 80 to 120 ppm. The calcium hardness level should be maintained in the 120 to 250 ppm range.

DO Maintain the pH level within the recommended range of 7.4 to 7.6.

DO Maintain proper chemical balance to reduce the risk of catching or spreading infection.

DO Use granulated chlorine/bromine produced specifically for portable spas.

DO NOT Use swimming pool chemicals in your spa.

DO NOT Use household bleach (liquid sodium hypochlorine).

DO NOT Use swimming pool (muriatic) acid to lower pH. Many swimming pool water care products can cause damage to spa and equipment.

DO NOT Allow anyone to be in the spa while chemicals are being added or dissolving.

DO NOT Use incorrect products such as Trichlor, which has a very low pH (2.6), dissolves very slowly, is highly concentrated, and was designed for concrete or plaster swimming pools. It will cause damage to your spa!

CHEMICAL SAFETY INSTRUCTIONS

When using chemicals, read labels carefully and follow directions precisely. Though chemicals protect you and your spa when used correctly, they may be hazardous in a concentrated form. Observe these guidelines:

DO Accurately measure and use the exact quantities specified, never more.

DO Handle all containers with care. Store in a cool, dry, well ventilated place.

DO Keep chemical containers closed at all times when not in use. Replace caps on proper containers.

DO Allow only a responsible person to handle spa chemicals. Keep them out of the reach of children.

DO Follow the emergency advice on the product label in case of accidental contact, or if the chemical is swallowed. Call a doctor or local Poison Control Center. If a doctor is needed, take the product container along so that the substance can be identified.

DO NOT Inhale fumes or let chemicals come in contact with your eyes, nose or mouth. Wash your hands after use.

DO NOT Let chemicals get on surrounding surfaces or landscaping. Don't use a vacuum cleaner to clean up chemical spills.

DO NOT Smoke around chemicals. Fumes may be highly flammable.

SPA WATER TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	SOLUTIONS
Cloudy Water	Inadequate filtration/dirty filter	Clean filter with a filter cleaner or degreaser.
	Excessive oils/organic matter	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Improper sanitation	Increase sanitizer to recommended level.
	High pH and/or high alkalinity	Adjust pH; add "PH-DOWN".
	Suspended particles/organic matter	Use clarifier
	Overused or old water	Drain the spa, clean and refill.
Water Odor	Excessive Organics Too many chloramines bromamines - insufficient free available chlorine	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Improper sanitation	Increase sanitizer level to recommended level.
	Low pH	Raise pH with "PH-UP".
Chlorine Odor	Too many chloramines-insufficient free available chlorine	Shock the spa with "POTASSIUM PEROXY MONOSULFATE".
	Low pH	Adjust pH; raise pH with "PH-UP"
Musty Odor	Bacterial or algae growth	Shock the spa. If problem is visible, draining and cleaning may be required.
Foaming	Buildup of body oils, lotion and chemicals resulting in soap or detergent	Add defoamer, or drain and refill.
	Overused or old water	Drain and refill.
	Excessive organics	Shock with "POTASSIUM PEROXY MONOSULFATE".
Organic Buildup/ Scum Ring Around The Tub	Body oils and dirt	Wipe off scum with a clean rag or use mild detergent. If needed, drain, refill spa, and adjust water.
	Inadequate filtration	Clean filter with a filter cleaner or degreaser.

SPA WATER TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	SOLUTIONS
Algae	High pH	Shock with "POTASSIUM PEROXY MONOSULFATE", adjust pH.
	Low free chlorine/bromine	Shock with "POTASSIUM PEROXY MONOSULFATE", maintain sanitizer at recommended level.
Eye Irritation	Low pH	Raise pH with "PH-UP".
	Insufficient free available chlorine/bromine	Shock with "POTASSIUM PEROXY MONOSULFATE."
Skin Irritation/Rash	Unsanitary/polluted water.	Maintain recommended sanitizer residual at all times; super-chlorinate.
	Chlorine/bromine level too high (above 5ppm FAC).	Allow chlorine/bromine level to drop below 5 ppm before using spa.
Stains	pH or total alkalinity too low.	Adjust pH and total alkalinity; use sequestering agent; drain and clean with appropriate product.
Scale	High iron or copper in water source.	Use sequestering agent for metals; adjust water
	Too much calcium dissolved in water pH.	Adjust total alkalinity and pH levels by adding the appropriate sodium bisulfate product; with concentrated scale deposits, drain the spa, dean the liner (as outlined in Liner Clean Up), refill the spa and balance the water.

DIAGNOSTIC & TROUBLESHOOTING

<u>SYMPTOM</u>	<u>MEANING</u>	<u>ACTION</u>
Spa Inoperative	Power failure outside of spa.	Check power source Breaker and GFCI; Reset breaker/GFCI. Call Electrician if it will not start.
Top Side Inoperative	Top Side could be locked.	Press unlock button 4 times.

IF ANY ERRORS ARE FOUND, THE FOLLOWING REPLACEMENT MESSAGES MAY BE DISPLAYED:

<u>MESSAGE</u>			
BLO	<i>BLO</i>	Blower Error	Check fuse 3 and then verify that the blower motor is plugged in.
CP	<i>CP</i>	HEET pump may be faulty.	Check that HEET pump is plugged in.
CS	<i>CS</i>	Current Sensor	Check that current sensor board is plugged into circuit board.
F1 or F2	<i>F1 / F2</i>	Blown Fuse	Replace fuse 1 or fuse 2
HC	<i>HC</i>	Heater Error	Replace heater
HP	<i>HP</i>	High Voltage	High power (voltage) observed. Check power connections and rerun diagnostic test
LB	<i>LB</i>	Light Error	Replace underwater light bulb
LP	<i>LP</i>	Low Voltage	Low Power (voltage) observed. Check power connections and rerun diagnostic test
O3U	<i>O3U</i>	Ozonator Error	Replace ozonator
P1 or P2	<i>P1 / P2</i>	Pump 1 or Pump 2 Error	Check plug for Pump 1 or Pump 2
PS	<i>PS</i>	Pressure Switch Error	Replace Pressure Switch or Flow Switch
LS	<i>LS</i>	Water Sensor	Replace Sensor
SS	<i>SS</i>	Heater Sensor	Replace Sensor
HILI	<i>HILI</i>	High Limit Sensor Detects Temperature Rise Above 112F	Allow Spa to Cool, Power Down Spa, Turn Power Back on and Reset Spa Side Control
FLO	<i>FLO</i>	Lack of Flow:Heater disabled	Remove filter. If "FLO" disappears, clean filter.
REL	<i>REL</i>	Faulty relay	Check power board for sticking relay.
BUS	<i>BUS</i>	Communication Error	Reboot Power Board.

IF ANY PROBLEMS PERSIST, CALL YOU LOCAL VITA DEALER FOR SERVICE.

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