

Urban LITE

Spas for wellness and modern living

OWNER'S MANUAL



SUMMER 2019

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The Urban Lite™ Collection model range

Boulevard 2 Person



Skyline 2 Person



Uptown 5 Person



Parkside

4 Person



Metro

6 Person



Mayfair

4 Person



IMPORTANT SAFETY INFORMATION

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS.

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

3. Electrical Supply. Spa models with 2kw heaters only require a 13amp waterproof outside socket. Spa models with a 3 kw heater require a 16amp wall mounted commando socket with a dedicated supply terminated at an RCD protected consumer unit fitted with a type C breaker. Alternatively you could fit a rotary isolator and have your own electrician hardwire directly into the Hot tub control box.

ALWAYS USE A QUALIFIED ELECTRICIAN TO CONNECT THIS SPA TO YOUR ELECTRICITY SUPPLY

4. DANGER - risk of accidental drowning. Extreme caution must be exercised to prevent unauthorised access by children. To avoid accidents, ensure that children cannot use the Riptide Urban Lite spa unless they are supervised at all times.

5. DANGER - risk of injury. The suction fittings in the Riptide 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 Riptide spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated lower than the flow rate marked on the original suction fitting.

6. DANGER - risk of electric shock. Do not permit any electrical appliance, such as a light, telephone, radio, or television, within 5 feet (1.5m) of the unit. These units have an integral ground fault circuit interrupter, but this only covers the spas' own electrics.

7. WARNING - to reduce the risk of injury:

- a) Before entering the spa check the temperature.
- b) Since excessive water temperatures have a high potential for causing foetal damage during the early months of pregnancy, pregnant or possibly pregnant women should seek advice before using a spa and should maintain safe water temperatures.
- 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, circulatory system problems, or diabetes, should consult a physician before using a spa.
- f) Persons using medication should consult a physician before using the spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure and circulation.

ADDITIONAL SAFETY INSTRUCTIONS:

1. WARNING - risk of fatal hypothermia.

- a) The use of alcohol, drugs, or medication can greatly increase the risk of fatal Hypothermia in a spa.
- b) The causes, symptoms, and effects of Hypothermia

may be described as follows: Hypothermia occurs when the internal temperature of the body reaches a level several degrees below the normal body temperature of 37°C (98.6°F). The symptoms of Hypothermia include an decrease in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of Hypothermia include:

- Unawareness of impending hazard
- Failure to perceive cold
- Failure to recognise the need to exit the spa
- Physical inability to exit the spa
- Foetal damage in pregnant women
- Unconsciousness and danger of drowning.

2. WARNING - risk to infants, the elderly, and women planning pregnancy or during pregnancy. Please consult your physician if the above applies to you or anyone using your spa.

3. WARNING - risk of children drowning. Although your Riptide spa cover is not rated as a safety cover, it is wise to always keep the spa cover securely fastened when not in use. This will help discourage children from attempting to enter the spa when not supervised by an adult.

4. WARNING - risk of drowning. Use caution when bathing alone. Overexposure to hot water may cause nausea, dizziness, and fainting.

5. WARNING - risk of injury. Always use extreme caution while entering or exiting the spa. Surfaces can be very slippery when wet. Do not step or sit on head rests. Keep all breakable objects out of the spa area.

6. WARNING - risk of injury. Never use the spa immediately after strenuous exercise.

7. WARNING - risk of injury. Individuals with infectious diseases should not use the spa

8. WARNING - risk of injury. Maintain water chemistry in accordance with chemical manufacturer's instructions.

9. WARNING - risk of shock. The spa must not be operated in severe weather conditions, i.e. electrical storms.

10. CAUTION - unauthorised access. Secure the spa area against unauthorised access. Make sure all barriers meet local codes. Keep the spa cover on spa when not being used.

11. CAUTION - risk of damage to spa or equipment. By performing maintenance as described later in this Owner's Manual, the chance of damage to your spa and its equipment will be greatly reduced.

12. CAUTION - non-approved accessories. Using accessories not approved by the manufacturer could void your guarantee or cause other problems. Please consult with your authorised Riptide dealer.

13. CAUTION - location of your Riptide spa.

Locate your Riptide spa on a surface that can withstand the weight bearing requirements of the spa (see Selecting a Site for your Riptide spa in this Manual). Also, locate your spa in an environment that can withstand repeated exposure to water and the possibility of a major spill.

INSTALLATION & SET-UP

SELECTING A SITE FOR YOUR RIPTIDE SPA

Your Riptide spa is designed for either indoor or outdoor use. In either case, please adhere to the following guidelines:

1. Select a site that is stable and capable of supporting the weight of your spa, its water, and the people using it (refer to the model brochure or contact an authorised Riptide dealer for the filled weight of your spa). If installed on a suspended floor/deck, it should be capable of supporting your spa. If you have concerns on this matter, please contact a qualified, licensed contractor.
2. The surface needs to be flat and level as it must provide continuous support for the entire bottom of the spa structure. Do not shim or block up the spa creating voids below the base framework. If you do not intend to use a pit please ensure you have adequate drainage or a soak away.
3. Avoid installing the spa in a pit or low area where water may accumulate and damage the spa or its equipment. Choose a site where water will drain away from the spa and not towards it.
4. **Important:** with all installations, the Riptide spa must be located at least 150cm [5ft] from all electrical outlets, switches, and other permanently installed electrical devices.

Indoor considerations: There are several considerations when installing your Riptide spa indoors: the environment both around and below the spa should be water resistant. It must be capable of handling water splashed out from the spa as well as the possibility of a leak from the vessel (a catch basin equivalent to the volume of your spa is recommended); it is recommended that the room you install the spa in has proper ventilation. This can usually be achieved by an exhaust fan or a dehumidifier if spa is used for less than one hour per day.

Note: Typical indoor surfaces include, but are not limited to: concrete; wood; non-slip tile or linoleum.

Outdoor Considerations: When selecting an outdoor site, several things should be considered. Firstly, avoid selecting a site where excessive water may contact the spa such as from sprinklers or a roof edge without rain gutters. If possible, avoid areas of direct, prolonged sunlight. The ultraviolet rays of sunlight will tend to fade and damage your Riptide spa cover and cabinet. Lastly, avoid locating your spa in an area where debris could be blown into the spa. If sinking your Riptide spa into the ground a suitable drainage system must be installed to avoid the risk of hydrostatic pressure from rising ground water.

Note: Typical outdoor surfaces include, but are not limited to: concrete; brick; non-slip tile; wood-decking; pea shingle or sand.

ELECTRICAL REQUIREMENTS and CONNECTIONS

All Riptide spas must be wired in accordance with all national electric codes. Always use a qualified electrician to perform the electrical installation.

Wiring installation

Spa models with 2kw heaters only require a 13amp waterproof outside socket.

Spa models with a 3 kw heater require a 16amp wall mounted commando socket with a dedicated supply terminated at an RCD protected consumer unit fitted with a type C breaker.

Alternatively you could fit a rotary isolator and have your own electrician hardwire directly into the Hot tub control box.

220/240v Installation

Use only a qualified, licensed electrician to make 240 Volt electrical installations.

Your 220/240v standard Riptide spa model requires one fused and dedicated electrical circuit of 13 amp supply with a wire size of 1.5mm-2.5mm. It is important that these circuits are dedicated (not being used by any other electrical appliance) or your spa may not function properly.

Position your Riptide spa at least 150cm [5ft] from all electrical outlets or devices.

Electrician's Instructions

We strongly recommend that a suitable seal cable guide is installed to retain the water tight seal of the control boxes. The incoming power line must be suitably fused and protected to a C.E. minimum standard and any national specific regulations required.

IMPORTANT INFORMATION

Never, under any circumstances, install your Riptide Spa on an electrically heated floor.

INSTALLATION & SET-UP

CHECKLIST BEFORE FILLING YOUR SPA

Important: The equipment should **never** be operated without water in the spa. Serious damage to the equipment will occur.

1. Installing your cover: Your Riptide spa cover comes with tie-down straps and locking hardware to attach the cover to the spa cabinet or decking.

2. Check drain valves: Check that the spa drain valve is fully closed.

3. Tighten equipment fittings: In the equipment compartment, hand-tighten all PVC pipe unions, pump bleed valve and pump drain plugs to prevent the possibility of leakage (sometimes these fittings loosen during shipment). Check also that all fittings on the filter are closed (HAND TIGHT ONLY!).

4. Check Valve: Verify that all valves aside from the drainage valves described previously are in the fully open position. A valve that is half closed will result in a noisy pump due to lack of water flow.

5. Fill the spa: Fill the spa to approximately the halfway point on the skimmer.

6. If you live in a hard water area and have access to a water softener we recommend you fill the spa with softened water. The calcium balance of the spa water should be approximately 40-250 ppm.

6. Check for leaks: After the Riptide spa is full, but before turning the power on, check all the fittings and equipment in the equipment compartment for signs of leakage. If a leak is detected, except from fittings that can be hand-tightened, call your authorised Riptide dealer.

CONTROL PANEL OPERATIONS

CONTROL SYSTEM FEATURES

The fully programmable Gecko In.ye-3 control system on Riptide spas allows total management of the water temperature and jet power at the touch of a button. Also included is an automatic timer switch and operational safety features to ensure a safe and relaxing spa experience.

Heater control

You can set the water temperature to your personal preference. You can also set the water temperature in advance ensuring your spa is ready for use anytime you wish.

Jet control

The speed of the jets is fully adjustable via the simple to operate buttons on the control panel.

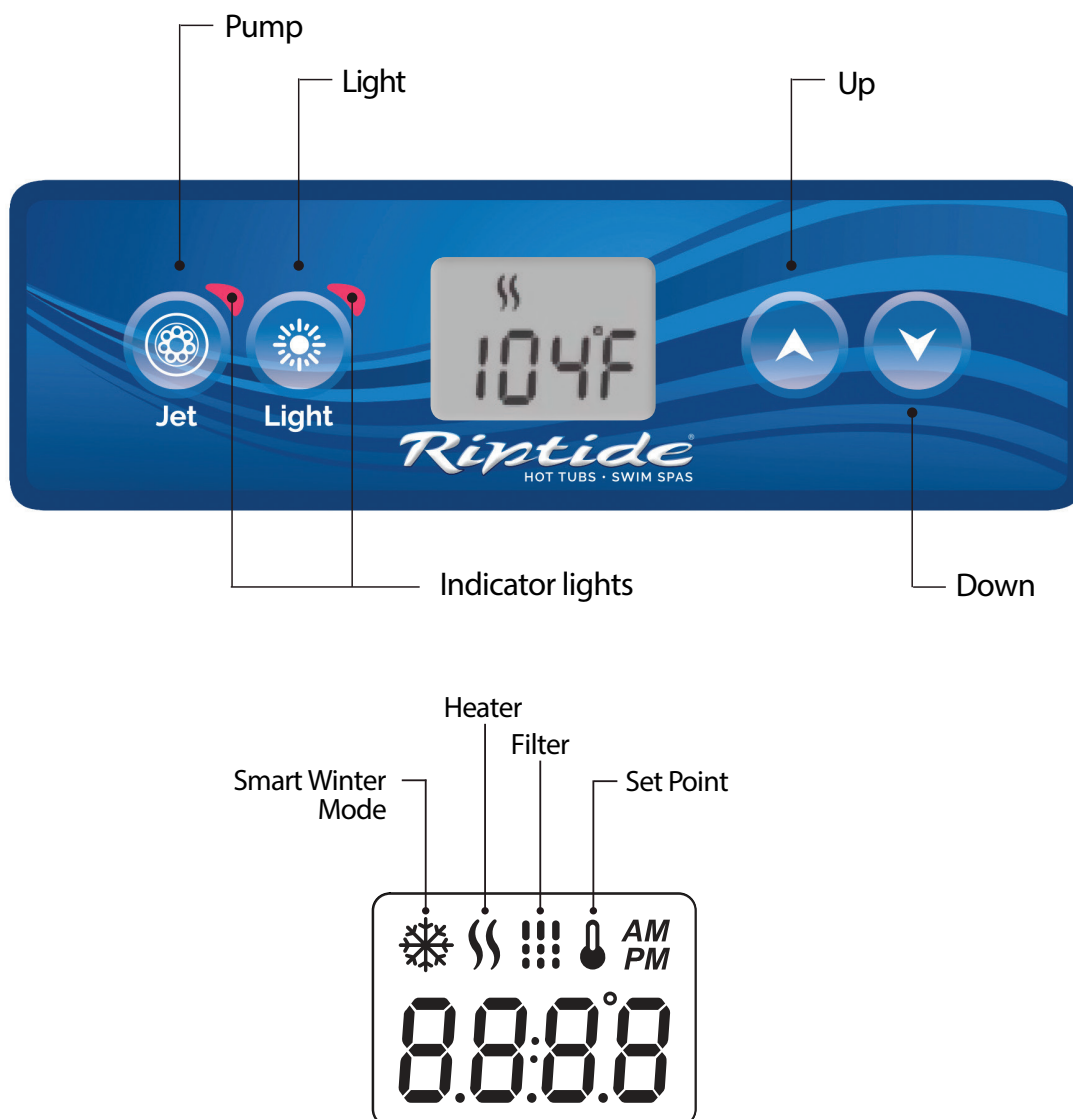
Audio system

If your Urban Lite Spa has a audio system fitted please refer to the seperate manual.

Safety features

The control system has multiple safety features including water flow protection, high and low voltage protection, high and low temperature protection and anti dry heating protection to guarantee the spa operates safely. The control box is fully waterproof with International Protection Rating (IP) 55.

IN.K300 MAIN CONTROL PANEL
keypad layout



CONTROL PANEL OPERATIONS

Spa Functions



Off Mode

Pressing the Jet key for 5 secs will enable the Off mode. This mode allows you to stop all outputs including automatic functions such as filter cycle, heat request and smart winter mode for 30 minutes to perform quick spa maintenance. When Off mode is active, the display will toggle between the "OFF" message, the clock and the water temperature.

The spa light will flash for a few seconds before the end of the 30 minutes to warn you that the system is about to resume its normal operation. Press the Jet key to restart the system before the expiration of the 30 minute delay. When the system resumes its normal operation, the display shows "On" for 3 seconds.



Jet



Press the Jet key to turn the pump on. Press the Jet key again to turn pump off. A built-in timer automatically turns pump off after 20 minutes, unless pump has been manually deactivated first.

The Jet indicator lights up when the Pump is on.



Up/Down keys



Use Up or Down key to set desired water temperature. The temperature setting will be displayed for 2 seconds to confirm your new selection.

2 pump spas have a combined Up / Down key. Hold the button to increase the parameter and release the button to stop. Hold the button again to decrease the parameter.



The "Set Point" icon indicates that the display shows the desired temperature, NOT the current water temperature!



Light key



Press Light key to turn light on. A second press turns light off. A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated first.

The "Light" indicator lights up when light is on.

CONTROL PANEL OPERATIONS

Programming Steps



Program menu

The program menu is accessible by holding down the Light key for 5 seconds. In the program menu the following parameters can be set: clock, the filter or purge cycles, economy mode and temperature units. While you are in the program menu, use the Up or Down key to adjust the parameters and use the Light key to jump to the next parameter. The changes will be saved after the confirmation of

the last parameter only. If there is no action taken for 10 seconds, the system will exit the program menu without saving any changes.



Setting the clock

Enter the program menu by holding down the Light key for 5 seconds. The display will show the current clock setting with the hour flashing.

Depending on factory settings your system may be set to 24-hour time or 12-hour time.

Setting the hour: Use the Up or Down keys to adjust the hours. Press the Light key to jump to the next parameter, the minutes.

Setting the minutes: Use the Up or Down keys to adjust the minutes. Press the Light key to jump to the next parameter, the filter or purge start time (FS).

Programming the filter/purge cycles

Depending on system configuration your spa will perform either a filter or a purge cycle. The filter cycle menu consists of the following parameters: the start time (FS), the duration (Fd) and the frequency (FF). The purge cycle menu consists of the following parameters: the start time (FS) and the frequency (FF).

A filter cycle consists of starting all the pumps and blower in high speed for 1 minute (purge step) then, the pump associated with the filter will run in low speed for the remaining duration of the filter cycle (clean step).

A purge cycle is used when the spa is equipped with a 24 hour circulation pump which provides a continuous clean step. It consists of starting all the pumps and blower in high speed for 1 minute.



Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). The display will show F or C.

Use the Up or Down key to change the setting. Use the Light key to save all the parameters.



Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.

The "SWM" indicator lights up when freezing is detected and flashes when the purge is active.

Cooldown

After heating the spa water to the desired Set Point, the heater is turned off, but its associated pump (Pump 1 low-speed or CP) remains on for a predetermined period of time to ensure adequate cooling of the heating element, prolonging its useful life.

CONTROL PANEL OPERATIONS



Setting filter or purge cycle start time

The display will show FSxx, "xx" representing the starting hour of the cycle. Use the Up or Down key to adjust the hours. Use the Light key to jump to the next parameter, filter duration (Fd).



Setting filter cycle duration

(not available on purge systems)

The display will show Fdxx, "xx" representing the duration in hours of the filter cycle. Use the Up or Down key to adjust the duration. Use the Light key to jump to the next parameter, filter or purge frequency (FF).



Setting filter or purge cycle frequency

The display will show FFxx, "xx" representing the number of cycles per day. Use the Up or Down key to adjust the frequency. Use the Light key to jump to the next parameter, economy mode (EP).

The "Filter cycle" indicator lights up when filter is on and flashes when suspended.

0 = no filtration
24 = continuous filtration

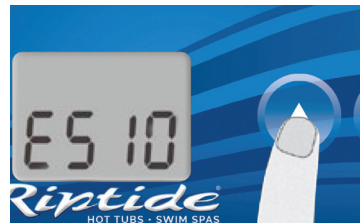
It is not recommended to set this to "0".



Setting economy mode

This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day.

The display will show EPx, "x" representing the state of the programmed economy (0 = disabled, 1 = enabled). Use the arrow keys to enable or disable economy mode. Use the Light key to jump to the next parameter, economy start time (ES).



Setting economy start time

The display will show ESxx, "xx" representing the hour at which the economy mode will become active. Use the Up or Down key to adjust the hour. Use the Light key to jump to the next parameter, economy duration (Ed).

When the Economy mode is ON, the display will toggle between the "Eco" message, the time, and the water temperature.



Setting economy duration

The display will show Edxx, "xx" representing the duration in hour of the economy mode. Use the Up or Down key to adjust the hour. Use the Light key to jump to the next parameter, temperature unit.

24 = continuous economy

Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.

FUNCTIONS

Lighting

In-spa lighting has seven colour and three sequencing options including a gentle rotation through the spectrum. Using the key pad you can select your favourite colour.



Bar Top Controls

By turning Diverter Control you can divert the water current between the different spa jets. You can also adjust the Air Control to allow more air to join the spa water, creating a stronger massage.



Install optional hand held massage jet

Select any convenient 4" jet, then using two hands, unscrew the jet anti clockwise and remove. Connect Hand held massage to jet fitting and install by turning clockwise.



Compartment Door

For easy access, all components in Urban Lite Spas are positioned on the same side as the compartment door. In the event that an engineer needs to get inside your spa all that is needed is to pull away the steps and open the cabinet.

Clean Cycle

At the beginning of the filtration cycle, a pump will automatically operate for 1 minute to clean the spa water.

Circulation Pump

The circulation pump operates during filtration and when the heater is in operation.

Ozone generator

The ozone generator will operate during filtration cycles.

Freeze Protection

If the sensors within the heater detect a very low temperature, the pumps and blower automatically activate to provide freeze protection. The pumps and blower will run continuously or periodically depending on the conditions.

TROUBLESHOOTING GUIDE

DIAGNOSTICS - OPERATION

Once commissioned, your Riptide Spa should operate normally when properly set up. If, however, you encounter operating problems please use this general guide. If this guide does not help you solve the problem please contact your dealer.

OPERATING PROBLEM	ANALYSIS	ACTION REQUIRED
Spa can't start in any mode.	<ul style="list-style-type: none">• Power is off.• Electric control failure (display shows error message).	Check the power supply to the spa. Check the error message on pages 10-12 and contact your dealer.
Water jets turns off automatically when using the spa.	<ul style="list-style-type: none">• The default time setting has switched off the jets.• The pump motor is overheating.	Press the pump button to restart the pump. Stop running pump for 1 hour until cool and then restart the pump
The water pumps are operating but no water is coming out of the jets.	<ul style="list-style-type: none">• The water pump has an airlock.	Try to restart the jet. Introduce water into the filter opening to clear any possible air block.
Spa water is heating slowly and / or not reaching required temperature.	<ul style="list-style-type: none">• Filter cartridge needs cleaning• There is no cover on the spa creating heat loss.• Heater is faulty.	Re-set the temperature. Clean or replace the filter. Put the cover on the spa. Contact your dealer.
The power of the jets is low.	<ul style="list-style-type: none">• The jets are blocked.• The water pump's air valve is not fully open.	Check whether there are foreign bodies inside the jets. Check if water pump's valve is fully open.
The jet water power fluctuates.	<ul style="list-style-type: none">• Filter is blocked.• There is not enough water in the spa.	Check whether there are foreign bodies inside the filter. Add more water to the spa.







FAULT-FINDING

For fault-finding and other technical help with your in.ye-3 control system please visit the Gecko online resource at: www.geckodocs.com/yseries

TROUBLESHOOTING GUIDE

Troubleshooting section

Should an error occur, the display will show one of the following error messages toggled with the clock and the water temperature.

in.xe error codes	Description
	Hr An internal hardware error has been detected in the in.xe. Contact dealer or service supplier.
	HL The system has shut the heater down because the temperature at the heater has reached 119°F (48°C). Do not enter the water! Remove the spa cover and allow the water to cool down, then shut power off and power your spa up again to reset the system.
	AOH Temperature inside the spa skirt is too high, causing the internal temperature in the in.xe to increase above normal limits. Open skirt and wait until error clears.
	FLO The system does not detect any water flow while the primary pump is running. Check and open water valves. Check for water level. Clean filter. If the problem persists, call your dealer or service supplier.
	Prr A problem is detected with the temperature probe. Call your dealer or service supplier.
	OH The water temperature in the spa has reached 108°F (42°C). Do not enter the water! Remove the spa cover and allow the water to cool down to a lower temperature. Call your dealer or service supplier if problem persists.

MAINTENANCE

WATER CHEMISTRY

Tap water that is safe to drink is not always right for your spa. Normal tap water usually contains minerals and micro-contaminants that are not visible to the naked eye. Properly testing and treating your spa water is essential for the health of your spa as well as the people who use it.

Proper chemical maintenance can control and help prevent the following:

1. Bacteria, algae and fungi, which can spread disease and infection to humans.
2. Staining and scale build-up on your spa shell, equipment, and piping.
3. Clogged filters.

Note 1: When using chemicals, always follow the instructions provided on the manufacturer's labels.

Note 2: Use an accurate test kit to perform all chemistry tests.

Note 3: Never mix chemicals.

Note 4: Always add chemicals directly to the spa water, evenly spreading the chemicals over the surface. Run the Filter Pump for 15 or more minutes after applying any chemical. To help with the mixing of chemicals you can turn on your massage system as well.

OVERVIEW OF WATER CHEMISTRY

1. Sanitation

Sanitizers kill bacteria and keep the water clean. Effective and safe Sanitizers include any of the following: STABILISED CHLORINE GRANULES (sodium dichloro isocyanurate dihydrate), or BROMINE GRANULES.

Note: Trichlor chlorine tablets and/or non-dichlor granular chlorines must not be used in your spa, they may damage the spa, voiding your warranty.

2. Weekly shock dose

As your spa is used, non-filterable wastes, including perspiration, oils, hair sprays, etc, will build up in the water. These substances make the water unattractive in appearance and odour, and can also interfere with sanitizer effectiveness. Normal sanitation does not eliminate these waste substances but shock dosing does. Shock dosing is achieved by 'shocking' the spa water with a weekly dose of NON-CHLORINE SHOCK or double dose of CHLORINE GRANULES.

3. pH Control

Proper pH balance is extremely important in controlling bacteria, providing water that's comfortable for the user, and in preventing damage to the spa and its equipment. Using the scale of 0-14, pH is the measure of acidity and alkaline in the water. pH levels under 7.0 are acidic while pH levels over 7.0 are alkaline. The proper pH range for a spa is 7.2 to 7.6.

High pH levels (over 7.6) can cause the following:

Scale build-up on the spa and its equipment; cloudy water; a prematurely dirty filter; and less effective chlorine sanitation. To correct high pH levels, add a pH REDUCER.

Low pH levels (under 7.2) can cause the following:

Discomfort to the user and corrosion to the spa and its equipment. To correct low pH levels, add a pH INCREASER.

Note: Never use muriatic or hydrochloric acid to adjust pH as it can damage your spa shell and surroundings.

4. Total alkalinity (TA)

Total Alkalinity (TA) is the measure of carbonates and bicarbonates in the spa water. Low TA can cause pH to be unstable, bouncing from one level to another, causing the water to be corrosive or scale forming to the spa and its equipment. To correct low TA, add a TOTAL ALKALINITY INCREASER. High TA can cause scale build-up, cloudy water, as well as other pH problems. To correct high TA, contact your authorised Riptide dealer.

5. Calcium hardness (CH) 250-500 PPM

Calcium hardness (CH) is the measure of dissolved calcium in the water. Low CH (soft water) can result in staining to the spa's surface as well as corrosion to the spa and its equipment. To correct low CH, add a CALCIUM HARDNESS INCREASER. High CH (hard water) can cause cloudy water as well as rough scale build-up on the spa's surface and equipment. To correct or manage high CH, contact your authorised Riptide dealer.

6. Stain & scale control

Stain and scale problems are common in hot water environments. To help prevent and control staining and scaling, add a SCALE INHIBITOR.

7. Foam control

Water emulsifies shampoo, soap and detergents, and combined with high water temperatures, can cause surface foaming. To prevent and control foam on the surface of the spa water add a small amount of FOAM REDUCER.

8. Clearing cloudy water

There are two basic reasons that spa water becomes cloudy. First, non-filterable liquid wastes (perspiration, etc.) have contaminated the water. To remove these waste substances, shock the water (as described previously). Second, non-filterable micro-particulate wastes (dust, etc.) have contaminated the water. To remove these waste substances, use a WATER CLARIFIER.

MAINTENANCE

9. Sanitizing with Non-Chlorine Shock (potassium peroxymonosulfate)

When sanitizing your spa with Non-Chlorine Shock you should add the correct dose directly to the spa water with the jets running.

Non-Chlorine Shock will give up to two hours of safe bathing. If you use the spa for more than two hours it will be necessary to re-dose.

On a weekly basis it is important to shock your spa with NON-CHLORINE SHOCK or double dose of CHLORINE GRANULES.

Note: Use only branded Hot Tub Barn chemicals to ensure premium performance.

STARTING YOUR SPA WITH NEW WATER

1. As your spa fills with tap water, add 2 and a half teaspoons of STABILISED CHLORINE GRANULES to the spa water. This will provide the initial protection against bacteria in your pipes.

Note: If you live in a hard water area, fill the spa with soft water if available. The calcium balance should be between 250 and 500 ppm.

2. When the spa is completely filled with water complete the following.

3. If possible, have your authorised Riptide dealer test the Calcium Hardness (CH) of your water and adjust as per your dealer's recommendation (the correct level of CH depends on your overall water conditions).

4. Test and adjust the Total alkalinity (TA) to the range of 125-150 PPM (parts per million).

5. Test and adjust the pH to the range of 7.2-7.6.

6. After the water has circulated for approximately a quarter of an hour, retest the chlorine level in your water and add the correct amount to raise the level to between 3—5 PPM.

Start-up water chemistry is now complete. However, it may take several days for the filter to completely clear the water.

MAINTAINING SPA WATER

Sanitizer and pH Levels

It is important to test and adjust the sanitizer and pH levels of your spa on a daily basis.

With each sanitizer test, use STABILISED CHLORINE GRANULES to maintain the following levels:

With ozone

Chlorine Level: 3—5 PPM

To maintain the above sanitizer level with CHLORINE, please refer to your authorised Riptide dealer for assistance.

Shock dose

Once a week, and when the spa is not in use, shock dose the spa water by adding the following:

Add four tablespoons of NON-CHLORINE SHOCK to the spa water.

Stain and scale control

Use a SCALE INHIBITOR as per the instructions on the manufacturer's label.

Foam control

As required, use FOAM REDUCER as per the instructions on the manufacturer's label.

Cloudy water prevention and control

Use a WATER CLARIFIER as per the instructions on the manufacturer's label. If the spa water is cloudy call your Riptide dealer for advice.

WATER CHEMISTRY TROUBLESHOOTING

Prior to each spa use, check the water. If the water appears cloudy or off-colour, has significant surface foam or smells of chlorine, then there is a problem with the water and it needs to be treated or drained. Using the spa of the spa section in these conditions could result in a skin rash or other irritation.

For assistance in handling water chemistry problems, consult your authorised Riptide dealer or another service centre capable of performing a detailed Water Analysis.

RIPTIDE TOTAL ALKALINITY (TA) ADJUSTMENT

Additions based upon: 2.4kg Sodium Bisulphate reducing the TA by 20.00mg/L per 50.00 cubic metres
2.0kg Sodium Bicarbonate Increasing the TA by 20.00mg/L per 50.00 cubic metres

Volume Alkalinity Chemical Addition (Metre³) Effect			Total alkalinity adjustment required in mg/L									
			10	20	30	40	50	60	70	80	90	100
BOULEVARD												
0.700	Reduce	Sodium Bisulphate- 'pH Reducer'	16.80g	33.60g	50.40g	67.20g	84.00g	100.80g	117.60g	134.40g	151.20g	168.00g
0.700	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	14.00g	28.00g	42.00g	56.00g	70.00g	84.00g	98.00g	112.00g	126.00g	140.00g
SKYLINE												
0.700	Reduce	Sodium Bisulphate- 'pH Reducer'	16.80g	33.60g	50.40g	67.20g	84.00g	100.80g	117.60g	134.40g	151.20g	168.00g
0.700	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	14.00g	28.00g	42.00g	56.00g	70.00g	84.00g	98.00g	112.00g	126.00g	140.00g
UPTOWN												
1.250	Reduce	Sodium Bisulphate- 'pH Reducer'	30.00g	60.00g	90.00g	120.00g	150.00g	180.00g	210.00g	240.00g	270.00g	300.00g
1.250	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	25.00g	50.00g	75.00g	100.00g	125.00g	150.00g	175.00g	200.00g	225.00g	250.00g
PARKSIDE												
1.000	Reduce	Sodium Bisulphate- 'pH Reducer'	24.00g	48.00g	72.00g	96.00g	120.00g	144.00g	168.00g	192.00g	216.00g	240.00g
1.000	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	20.00g	40.00g	60.00g	80.00g	100.00g	120.00g	140.00g	160.00g	180.00g	200.00g
METRO												
0.960	Reduce	Sodium Bisulphate- 'pH Reducer'	23.04g	46.08g	69.12g	92.16g	115.20g	138.24g	161.28g	184.32g	207.36g	230.40g
0.960	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	23.04g	46.08g	69.12g	92.16g	115.20g	138.24g	161.28g	184.32g	207.36g	230.40g
MAYFAIR												
1.250	Reduce	Sodium Bisulphate- 'pH Reducer'	30.00g	60.00g	90.00g	120.00g	150.00g	180.00g	210.00g	240.00g	270.00g	300.00g
1.250	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	25.00g	50.00g	75.00g	100.00g	125.00g	150.00g	175.00g	200.00g	225.00g	250.00g

MAINTENANCE

CHANGING YOUR SPA WATER

Depending on usage, your spa section water will need to be changed approximately every 4 months or whenever your spa water becomes difficult to manage..

DRAIN OPERATION



Drain open

Locate drain valve at floor level. To empty the water from the spa remove the screw-cap from pipe. Twist anti clockwise and pull pipe out. Water will now drain out - allow to drain by gravity only.

Drain closed

To fill the spa up with water, screw cap onto pipe. Push and turn clockwise to lock closed.

Note 1: Drain water to an area that can handle the water volume of your spa.

Note 2: If draining water onto vegetation, make sure that the sanitizer level (chlorine level) of your spa water is less than 5 PPM.

4. To clean the spa shell refer to 'SPA SHELL CARE'.

Steps to refill your spa:

1. Check that the drain is fully closed.
2. Close door to equipment compartment.
3. Refill spa with tap water. Fill the spa to the midway level of the skimmer. The depth should be approximately 150mm-190mm (6-7½") down from the top rim of the spa.

Note 1: The higher the water level, the fewer spa users it will take to cause the water to overflow the top of the spa.

Note 2: If you live in a hard water area you can fill the spa with a 20/80 mix of hard and soft water. The calcium balance should be between 40 - 250ppm.

4. Restore electrical power supply.
5. See 'Starting Your Spa with New Water' under 'Water Chemistry'.

CLEANING YOUR FILTERS

The filters are located inside the skimmer. Put your hand into the skimmer and remove each filter one at a time. On a regular basis it is important to remove excessive pollution and organic matter from the filters. It is recommend that on a regular basis the filters are either cleaned with INSTANT FILTER CLEANER or allowed to soak overnight in CARTRIDGE CLEANER. In either case, after degreasing use a high pressure hose or pressure cleaner to remove cleaner residue and calcium.

Filter replacement: Replace the filters every year or sooner if necessary. Only use genuine Riptide filter cartridge replacements.

CAUTION: Using a brush to clean a filter could damage it. Commercially available filter cleaners may be used and can be obtained from your authorised Riptide dealer.

SPA SHELL CARE

The spa surface is durable and easy to clean:

Spa shell surface: For normal cleaning use WATERLINE CLEANER solution. For surface marks, use SURFACE CLEANER. To apply these cleaners, use a soft, damp cloth or sponge. Rinse well and dry with a clean cloth.

General cleaning: With normal use of your spa, oils, lotions, and hairsprays will build up on the surface of the water, sometimes leaving a scum line around the perimeter of your shell. This scum line can easily be removed with SURFACE CLEANER.

To remove grease, oil, paint and ink stains, use 25% isopropyl (rubbing) alcohol in water.

Note 1: Never allow your spa surface to come in contact with acetone (nail polish remover), nail polish, dry cleaning solution, lacquer thinners, gasoline, pine oil, abrasive cleaners or any other harsh chemical. These chemicals can damage your spa shell and void your warranty.

Note 2: Avoid using cleaning agents that will leave suds in your spa water.

CLEANING AND PROTECTING THE HEADRESTS

Clean on a regular basis with soap, water and a clean cloth. Use 303® Protectant or it's equivalent once per month. This will maintain water resistance and lustre of the product. Between uses it is recommended to remove the headrests and store in a dry place.

Note: If headrests are left in the spa you must expect colour loss and gradual breakdown of headrest material due to the corrosive effect of chlorine and ozone.

MAINTENANCE

COVER CARE

Your cover has a one year warranty.

Basic instructions are provided below. It is important that you refer to the information that came with your cover, which provides detailed information on caring for it and what to do to protect its warranty.

Cleaning and conditioning your cover. On a monthly basis, complete the following:

1. Remove the cover and lay it down on a flat, clean surface near a garden hose.
2. Rinse the cover to remove any loose debris.
3. Using a soft bristle brush, clean the top (vinyl portion) of the cover with a mild solution of washing up liquid — about one teaspoon of soap to two gallons of water. Scrub the cover, using a gentle circular motion, being careful not to let any areas of the cover dry before rinsing with water.
4. Rinse the cover thoroughly and then dry with a clean cloth.
5. We recommend the use of 303 Protectant to give your cover a shiny appearance and UV protection.
6. Wipe and/or rinse any dirt from the bottom side of the cover.
7. Replace the cover and secure with cover locks.

MISCELLANEOUS CARE

Vacuuming the spa: Debris from wind, trees and spa users will occasionally accumulate on the bottom of your spa. Your spa's filtration system will remove the smaller debris. Debris that is too large or too heavy for the filtration system will have to be removed by the use of a spa vacuum, such as a Grit Gitter. If you do not have a spa vacuum, please contact your authorised Riptide dealer.

LOW USE OR NO-USE PERIODS

At certain times of the year you may not use your spa as often as expected. For these Low-use or No-use periods, we recommend the following:

Low-use: If your spa is being used less than once per month, then you may wish to lower the temperature setting. Lowering the temperature on your spa will cut your cost of operation if you are not using the spa for extended periods. However, you will need to adjust the temperature setting before each use to heat the spa to the desired level.

No-use for 1-2 weeks: If you plan to not use your spa for 1-2 weeks, then we suggest that you not make any changes in operating your spa.

No-use for 2-6 weeks: If you plan to not use your spa for 2-6 weeks, then you may wish to lower the temperature setting to approximately 26°C during the No-use period.

No-use for over 6 weeks: If you plan to not use your spa for over 6 weeks, then it is suggested that you winterize your spa by the following steps.

SPA WINTERISATION

1. Drain the water from the spa (see 'Steps to drain your spa' under 'Changing your spa water' in this Owner's Manual).
2. Drain the spa equipment. This is done by removing the drain plug from the pumps, loosening all PVC pipe unions and pump air bleed valves in the equipment compartment. On the base of the filter columns there is a drain plug which you need to unscrew.
3. Clean the spa shell (see 'Spa shell care' in this Owner's Manual).
4. Remove filter cartridge(s), clean filter (see 'Cleaning your filter' in this Owner's Manual), allow to dry, and then store inside your garage or home.
5. Re-attach and secure cover to the spa

SPA DE-WINTERISATION

De-Winterisation is completed by reversing the above procedure and then refilling the spa (see 'Steps to refill your spa' under 'Changing your spa water' in this Owner's Manual).

Note: *If your spa water is not emptied during periods of No-use, you should test and chemically treat the water approximately once per week. Not doing so may lead to corrosion, staining, and/or scaling to your spa and its equipment. If there is no one available to take care of the spa on a weekly basis, then it is recommended that you winterize your spa as described above.*

Before requesting service from your dealer, refer to the TROUBLESHOOTING GUIDE in this Owner's Manual to determine the necessary course of action. If you are not able to solve the problem using the troubleshooting guide, please contact your authorised Riptide dealer.



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