# **Riptide Pools Owner's Manual**





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# **Riptide Model Range**



Hydros



Neptune



Oceana



DoggySwim S490



Titan



Manta



Manta Pro



Manta Super Pro



Poseidon



Atlantis Freestyle



Atlantis



Atlantis Pro



Nautilus Freestyle



Nautilus



Nautilus Pro



Nautilus Super Pro

## **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**. In standard form, the Riptide swim spa requires only one supply of 240 volts 32 amp or 42 amp, except the Poseidon model which is 23 amp and 42 amp. Please consult with a qualified electrician to verify current legislation

#### ALWAYS USE A QUALIFIED ELECTRICIAN TO CONNECT THIS Swim 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 swim spa unless they are supervised at all times.

**5. DANGER - risk of injury.** The suction fittings in the Riptide swim 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 swim 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 pools' own electrics.

#### 7. WARNING - to reduce the risk of injury:

a) Before entering the swim 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 pool and should maintain safe water temperatures.

c) The counter-current of the Riptide swim spa is extremely powerful and could cause injury if used incorrectly. Do not stand next to the counter-current nozzles when the motor is running. Ideally, you should be placed at least 1 meter from the nozzles. Never attempt to adjust the swim jet nozzles whilst the motor is running

d) The use of alcohol, drugs, or medication, before or during swim 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 swim spa.

f) Persons using medication should consult a physician before using the swim 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 swim 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 recognize the need to exit the pool;
- Physical inability to exit the pool;
  - Foetal damage in pregnant women; and
  - 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 swim spa.

**3. WARNING - risk of children drowning.** Although your Riptide swim spa cover is not rated as a safety cover, it is wise to always keep the swim spa cover securely fastened when not in use. This will help discourage children from attempting to enter the swim 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 swim spa. Surfaces can be very slippery when wet. Do not step or sit on head rests. Keep all breakable objects out of the swim spa area.

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

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

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

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

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

**11. CAUTION - risk of damage to pool or equipment.** By performing maintenance as described later in this Owner's Manual, the chance of damage to your swim spa and its equipment will be greatly reduced. Never block the air vents that lead to the equipment compartment. Doing so may cause the swim spa equipment to overheat.

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

# SELECTING A SITE FOR YOUR RIPTIDE SWIM SPA

Your Riptide swim 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 swim 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 swim spa). If installed on a suspended floor/deck, it should be capable of supporting your swim 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 swim spa structure. Do not shim or block up the swim 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 swim spa in a pit or low area where water may accumulate and damage the swim spa or its equipment. Choose a site where water will drain away from the swim spa and not towards it.

4. **Important:** with all installations, the Riptide swim spa must be located at least 150cm [5ft] from all electrical outlets, switches, and other permanently installed electrical devices.

considerations: Indoor There are several considerations when installing your Riptide swim spa indoors: the environment both around and below the swim spa should be water resistant. It must be capable of handling water splashed out from the swim spa as well as the possibility of a leak from the vessel ( a catch basin equivalent to the volume of your swim spa is recommended); it is recommended that the room you install the swim spa in has proper ventilation. This can usually be achieved by an exhaust fan or a dehumidifier if swim 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 swim 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 swim spa cover and cabinet. Lastly, avoid locating your swim spa in an area where debris could be blown into the swim spa. If sinking your Riptide swim 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 swim spas must be wired in accordance with all national electric codes. Always use a qualified electrician to perform the electrical installation.

#### WIRING DIAGRAMS

Please reference the wiring diagram specific to your Riptide swim spa's control system:

- Standard Riptide swim spa 32 amp / 42 amp model control system
- one input 240V 32 amp / 42 amp single phase.
- Poseidon Riptide swim spa 23 amp spa end, 42 amp pool end
- two inputs 240V, one 45 amp and one 25 amp single phase
- Riptide Oceana requires a 42 amp supply
- DoggySwim S490 requires a 25 amp supply.

#### 220/240 VOLT INSTALLATION

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

Your 220/240 Volt standard Riptide swim spa 32 amp / 42 amp model requires one fused and dedicated electrical circuit of 32 amp / 42 amp and a minimum supply wire size of 6mm. It is important that these circuits are dedicated (not being used by any other electrical appliance) or your swim spa may not function properly.

The 220/240V Riptide swim spa 42 amp model requires one fused and dedicated electrical circuit of 45 amp and a minimum supply wire size of 6mm. It is important that these circuits are dedicated (not being used by any other electrical appliance) or your swim spa may not function properly.

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

#### **IMPORTANT INFORMATION**

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

#### **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.

# CHECKLIST BEFORE FILLING YOUR SWIM SPA

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

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

**2. Check drain valves:** Check that the swim 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 pool:** Fill the swim spa to approximately the halfway point on the skimmers.

**Note 1:** The higher the water level, the less pool users it will take to cause the water to overflow the pool edge. Also, water will splash out more easily whilst swimming in the pool if it is over-filled.

**Note 2:** If you live in a hard water area you can fill the pool with a 50/50 mix of hard and soft water. The calcium balance should be between 250 and 500 parts per million.

**6. Check for leaks:** After the Riptide swim 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 SYSTEM FEATURES**

The fully programmable computer-based control system on Riptide swim spas allows total management of the water temperature, blower 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 swim spa experience.

#### **Heater control**

You can set the water temperature to suit the activity: hot for just relaxing, cooler for exercise. You can also set the water temperature in advance ensuring your swim spa is ready for use anytime you wish.

#### Jet and blower control

The speed of the jets and the power of the blower are fully adjustable via the simple to operate buttons on the control panel.

#### Audio system (optional)

The integrated audio system features 4 transducer speakers, a sub woofer speaker and an mp3 dock.

#### **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 swim spa operates safely. The control box is fully waterproof with International Protection Rating (IP) 55.

#### MAIN CONTROL PANELS





#### **KEYPAD FUNCTIONS**

#### Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

#### Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.



#### Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa.

When an accessory has more than two states, press the button until it reaches the desired setting.



#### Water temperature

The temperature shown at the bottom of the screen gives the actual water temperature. Use the up and down arrow buttons to set the desired temperature. The set point will appear in blue. After 3 seconds without any change to the set temperature value, the current water temperature will reappear.

When the set value is lower than the current temperature 'Cooling to xx.x' will appear below. When the set value is higher than the current temperature, 'Heating to xx.x' will be indicated under the value. Normally there is a short delay before the heating starts, during which 'Heating Suspended' is indicated under the value.



#### Settings

From the home page you can access the Settings, where you will find:

- Water Care
- Audio
- Date and Time
- Keypad Settings
- Electrical Configuration
- Factory Reset
- About

Use the up and down arrow buttons to navigate the list. To select an option, press the lit button beside it (Jets 2).

At any point you can press the Settings button to return to the home screen or the 'Jets 1' button to go back.





#### Water Care modes

**Away from home:** In this mode the spa will always be in economy; the set point will be reduced by 20° F and filtration will be reduced.



**Beginner:** The spa will never be in economy mode, and will run a normal 8 hours of filtration a day.

**Energy Savings:** The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.



**Super Energy Savings:** The spa will always be in economy mode during peak hours, every day of the week.



*Weekender:* The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

#### Water Care

The Water Care section will help you set up your ideal filtration and heating settings. Choose from Away from Home, Beginner, Energy Savings, Super Energy Savings and Weekender, depending on your need. Use 'Jets 2' button to choose your setting. A checkmark will appear on the selected icon to confirm.

In Energy Savings mode, the set point will be reduced by 20°F\*, which means the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

The filtration schedule shown on the screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to 'N/A' on the screen, and only the start time can be modified.

\*Default value



#### **Modifying schedules**

To modify a Water Care category, use the lit button to the right (Blower) to open the selected Water Care menu.

You can add schedules by scrolling down to Add, and selecting with 'Jets 2' button.

To delete a schedule, press the lit button next to the garbage can icon on the top right of the screen (Jets 4).

You can modify the programmed schedules by selecting one and adjusting it using the arrow keys. Use 'Jets 2' to move between parameters.

You have several possibilities for the schedule (*Mon-Fri, weekend, every day, or single days*). The schedules will be repeated every week. The time and duration are set in 30 minute increments. Once you have set the schedule, use 'Jets 1' to go back. Ensure you have selected the desired Water Care option in the main Water Care menu.



#### Audio

The control panel can be used with either the in.tune or in.stream audio system.The Audio section in the Settings menu gives you the option to disconnect or unpair your Bluetooth\* enabled device when using the in.stream. For more information on audio functions, see the in.tune or in.stream operation section.

\*Bluetooth connectivity is not standard, but can be added as an optional extra.

<b>(</b>		+	Date & Time		
Settings	Jets 1	Format:	AM	/PM	Jets 4
		Year:	20	)12	
	Jets 2	Date:	Dec	10	Blower
		Time:	10: 36	РМ	
Mode	Jets 3				Light

#### **Date and Time**

Here you can adjust the time format, and change the year, date, and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing the 'Jets 2' button. Use the arrow buttons to change the parameters, and 'Jets 2' to move between parameters.

'Jets 1' button will take you back to the main Settings menu.





# Image: Settings Settings Jets 1 Jets 2 Jets 2 Jets 3 No/Other audio Light



#### **Keypad Settings**

In this section you can change the temperature unit and language. Use the arrow keys, and move to the setting that you would like to change. Use 'Jets 2' button to change your selection.

#### **Electrical Configuration**

Please do not make changes in this section unless you are a qualified electrician.

In this section you can change the lowlevel configuration, number of phases, and input current. Once you are at the setting that you would like to change, use 'Jets 2' to move between parameters, and the arrow keys to change them.

Please refer to the in.k806 TechBook for your specific spa pack for details about the low level settings.

Once you have reached 'Number of phases' in the menu, you cannot use the arrow keys to go back up to 'Low-level Configuration'. Please go back and re-enter the Electrical Config menu.

#### Factory Reset/Audio Configuration

When you select Factory Reset, you will be asked to confirm your choice. Doing so will reset all settings to factory default.

Following a reset, you will be asked to choose your audio source. Use the arrow key to choose between *in.stream*, *in.tune and no/other audio*.

This should only be done at installation or when replacing a part.

#### About

This section shows information about the control panel software number, and the revision numbers of the different components of your system.

#### in.tune operation



#### Press the Mode key to access your in.tune.

#### Turning power on/off

Press the Power key to turn the in.tune on or off.

#### Selecting the source

Press the Source key to choose between CD, Auxiliary input, and Radio.

If no source is selected, the in.tune will use the last selected source.

#### Play/Pause audio

Press the Play/Pause key to start or pause the audio.

#### Adjusting the volume

Press the Volume Up or Volume Down key to increase or decrease the volume.

#### **Changing tracks**

Use the Last Track and Next Track keys to change tracks for the CD or AUX input. When in Radio mode, the Last Track and Next Track keys will move through preset radio stations on the selected band. To change bands or preset stations, see your in.tune manual.

#### in.stream operation



#### Press the Mode key to access your in.stream.

If you are using a device with Bluetooth\* technology, it must be connected for functions to work.

Please note that the Play/Pause and Change Track functions apply to devices using Bluetooth technology only, and will not work when AUX is selected as the source.

#### Selecting the source

Press the Bluetooth key to select a device using Bluetooth wireless technology.

Press the Source key to use a device connected to the auxiliary cable.

If no source is selected, the in.stream system will use the last selected source.

\*Bluetooth connectivity is not standard but can be added as an optional extra.

#### Play/Pause audio

Press the Play/Pause button to start or pause the audio.

#### Adjusting the volume

Press the Volume Up or Volume Down key to increase or decrease the volume.

#### **Changing tracks**

Use the Last Track and Next Track keys to change tracks.

#### **Disconnect or Unpair Bluetooth**

These options can be found under the Audio section in the Settings menu.



#### **SPA CONTROL PANEL**

Fitted to the Poseidon model. the SPA control panel operation is the same as for the POOL control panel but features only 2 jets.



#### **PRO MODELS CONTROL PANEL**

Fitted to Pro and Super Pro models. Control panel operation is the same as for the POOL control panel. The panel features the VSD (Variable Speed Drive) button. This button needs to be pressed to activate the counter current jet.



#### **POWER POOL CONTROL PANEL**

Fitted to Oceana and DoggySwim S490 models. Control panel operation is the same as for the POOL control panel.

#### VARIABLE SPEED DRIVE AUXILIARY CONTROL PANEL

Fitted to Pro and Super Pro models, the Variable Speed Drive Auxiliary Control Panel operates the Variable Speed Drive (VSD) jet speed.

The Variable Speed Drive must first be turned on at the Main Control Panel and then turned on at the Auxiliary Control Panel. The counter current will then start up and go to power level 1. You can then increase the speed 1-10 and then back down 10-1.

#### **RISK OF DAMAGE WARNING:**

NEVER turn the Variable Speed Drive off at the Main Control Panel without first switching it off at the Auxiliary Control Panel.

#### **AUXILIARY CONTROL PANEL**

Fitted to Atlantis and Nautilus models, the Auxilliary Control Panel allows pool users to control the jets and lighting from within the pool. If the pool has 4 jet pumps, Jet 3/4 button will control Jets 3 and 4. First press of Jets 3/4 button operates pump 3, second press operates pump 3 and 4, third press controls pump 4 and fourth press will turn both Jets 3 and 4 off.





#### **OTHER FUNCTIONS**

#### **JETS**

Press the Jets button once to turn the pump on or off. If left running the pumps will turn off after a time-out period.

#### **BLOWER**

Press the Blower button once to turn the blower on or off. If left on, the blower will automatically turn off after a time-out period.

#### LIGHT

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Press the Light button to turn on the LED lighting. Press the button once again to turn it off.

#### **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.

#### **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.

#### **DIVERTER CONTROLS**

The Diverter Controls (if fitted) can be found along the top face of your swim spa, one on each side. By turning these controls you can divert the water current between the spa jets and the counter current jets.



For example, you can divert more of the water current power to the counter currents creating more force to swim against.

# **TROUBLESHOOTING GUIDE**

#### **DIAGNOSTIC MESSAGES**

Control Panel Message	Definition	Action required
No message on display	Power has been disconnected from the spa	The control panel will be disabled until power returns. The clock time may have to be reset after reconnection. All other spa settings will be preserved.
OH	Overheat - the spa will have shut down. One of the sensors has detected that the heater has reached a temperature of 47.8°C.	DO NOT ENTER THE WATER. Remove the spa cover and allow the water to cool. Once the heater has cooled, reset by pushing any button on the control panel. If the spa does not reset, disconnect from the power and call your dealer for assistance.
OAH	Overheat - the spa will have shut down. One of the sensors has detected that the spa water is 43.3°C.	DO NOT ENTER THE WATER. Remove the spa cover and allow the water to cool. At 41.7°C the spa should automatically reset. If the spa does not reset, disconnect from the power and call your dealer for assistance.
PR	A substantial difference between the temperature sensors has been detected. This could indicate a water flow problem.	Check water level in spa. Add water if necessary. If the water is at the correct level, make sure the pumps have been primed. Press any button to reset.
FLO	Persistant low water flow problems (will display the FLO message within 21 hours). The heater will have shut down, but other spa functions will continue to operate normally.	Check water level in spa. Add water if necessary. If the water is at the correct level make sure the pumps have been primed. Press any button to reset.
FLO	Insufficient water detected flowing through the heater, spa will have shut down.	Check water level in spa. Add water if necessary. If the water is at the correct level make sure the pumps have been primed. Press any button to reset.
FLC	Pressure switch is closed.	Contact your dealer.
HR	Hardware failure.	Contact your dealer if message appears on more than one power-up.
UPL	Firmware install problem.	Contact your dealer if message appears on more than one power-up. Contact your dealer.
F1 F2 F3	Fuse 1 is blown Fuse 2 is blown Fuse 3 is blown	Replace fuse. Replace fuse. Replace fuse.

#### WATER CHEMISTRY

Tap water that is safe to drink is not always right for your swim 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 swim 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 swim spa shell, equipment, and piping.

3. Clogged filters. With the swim spa please be aware that the chemical maintenance of your hot water spa section and the cooler pool section will be different and not always proportional to the volume of water.

**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 swim 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 swim spa, they may damage the swim spa, voiding your warranty.

#### 2. Weekly shock dose

As your swim 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.

#### 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 swim 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 swim 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 swim 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 swim 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 swim spa and it's 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 swim spa's surface as well as corrosion to the swim 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 swim spa water add a small amount of FOAM REDUCER.

## MAINTENANCE

#### 8. Clearing cloudy water

There are two basic reasons that swim 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 microparticulate wastes (dust, etc.) have contaminated the water. To remove these waste substances, use a WATER CLARIFIER.

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

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

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

On a weekly basis it is important to shock your spa/ pool with NON-CHLORINE SHOCK.

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

# STARTING YOUR SWIM SPA WITH NEW WATER

1. As your swim spa fills with tap water, add 10 teaspoons of STABILISED CHLORINE GRANULES to the pool end and in a swim spa add 2 and a half teaspoons to the spa end. This will provide the initial protection against bacteria in your pipes.

**Note:** If you live in a hard water area you can fill the pool with a 50/50 mix of hard and soft water. The calcium balance should be between 250 and 500 parts per million.

2. When the swim 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 SWIM SPA WATER**

#### Sanitizer and pH Levels

It is important to test and adjust the sanitizer and pH levels of your swim 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 swim spa is not in use, shock dose the spa water by adding the following:

Add four tablespoons of NON-CHLORINE SHOCK to the spa end and eight tablespoons of NON-CHLORINE SHOCK to the pool end, or if only one volume of water, eight tablespoons of NON-CHLORINE SHOCK into the pool.

#### 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 swim spa water is cloudy call your Riptide dealer for advice.

#### WATER CHEMISTRY TROUBLESHOOTING

Prior to each swim 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 swim 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	Additions based upon:	: 2.4kg Sodium Bisulphate reducing the TA by 2.0kg Sodium Bicarbonate Increasing the TA by	• TA by the TA by	20.00mg/L 20.00mg/L	20.00mg/L per 50.00 cubic metres 20.00mg/L per 50.00 cubic metres	per 50.00 cubic metres per 50.00 cubic metres	etres etres					
Volume	Alkalinity	Chemical Addition				Total alk	Total alkalinity adjustment required in mg/L	tment requi	red in mg/L			
(Metre <sup>3</sup> )	Effect		10	20	30	40	50	60	70	80	06	100
HYDROS	S											
4.602	Reduce	Sodium Bisulphate 'pH Reducer'	110.45g	220.90g	331.34g	441.79g	552.24g	662.69g	773.14g	883.58g	994.03g	1104.48g
4.602	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	92.04g	184.08g	276.12g	368.16g	460.20g	552.24g	644.28g	736.32g	828.36g	920.40g
NEPTUNE	Щ											
4.981	Reduce	Sodium Bisulphate 'pH Reducer'	119.54g	239.09g	358.63g	478.18g	597.72g	717.26g	836.81g	956.35g	1075.90g	1195.44g
4.981	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	99.62g	199.24g	298.86g	398.48g	498.10g	597.72g	697.34g	796.96g	896.58g	996.20g
<b>OCEAN</b>	<b>OCEANA / DOGGYSWIM S490</b>	VIM S490										
7.500	Reduce	Sodium Bisulphate- 'pH Reducer'	139.20g	278.40g	417.60g	556.80g	696.00g	835.20g	974.40g	1113.60g	1252.80g	1392.00g
7.500	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	116.00g	232.00g	348.00g	464.00g	580.00g	696.00g	812.00g	928.00g	1044.00g	1160.00g
TITAN												
7.475	Reduce	Sodium Bisulphate 'pH Reducer'	179.40g	358.80g	538.20g	717.60g	897.00g	1076.40g	1255.80g	1435.20g	1614.60g	1794.00g
7.475	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	149.50g	299.00g	448.50g	598.00g	747.50g	897.00g	1046.50g	1196.00g	1345.50g	1495.00g
POSEID	<b>POSEIDON Pool End</b>											
4.981	Reduce	Sodium Bisulphate 'pH Reducer'	119.54g	239.09g	358.63g	478.18g	597.72g	717.26g	836.81g	956.35g	1075.90g	1195.44g
4.981	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	'99.62g	199.24g	298.86g	398.48g	498.10g	597.72g	697.34g	796.96g	896.58g	996.20g
POSEID	POSEIDON Spa End											
1.491	Reduce	Sodium Bisulphate- 'pH Reducer'	35.78g	71.57g	107.35g	143.14g	178.92g	214.70g	250.49g	286.27g	322.06g	357.84g
1.491	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	29.82g	59.64g	89.46g	119.28g	149.10g	178.92g	208.74g	238.56g	268.38g	298.20g
ATLANTI	ATLANTIS / ATLANTIS PRO	S PRO										
6.500	Reduce	Sodium Bisulphate 'pH Reducer'	156.00g	312.00g	468.00g	624.00g	780.00g	936.00g	1092.00g	1248.00g	1404.00g	1560.00g
6.500	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	130.00g	260.00g	390.00g	520.00g	650.00g	780.00g	910.00g	1040.00g	1170.00g	1300.00g
NAUTILL	JS / NAUTILL	NAUTILUS / NAUTILUS PRO / SUPERPRO										
9.500	Reduce	Sodium Bisulphate 'pH Reducer'	228.00g	456.00g	684.00g	912.00g	1140.00g	1368.00g	1596.00g	1824.00g	2052.00g	2280.00g
9.500	Increase	Sodium Bicarbonate 'Alkalinity Increaser'	190.00g	380.00g	570.00g	760.00g	950.00g	1140.00g	1330.00g	1520.00g	1710.00g	1900.00g
MANTA	/ MANTA PRO	MANTA / MANTA PRO / SUPERPRO										
7.500	Reduce	Sodium Bisulphate- 'pH Reducer'	180.00g	360.00g	540.00g	720.00g	900.00g	1080.00g	1260.00g	1440.00g	1620.00g	1800.00g
7.500	Increase	Sodium Bicarbonate – 'Alkalinity Increaser'	150.00g	300.00g	450.00g	600.00g	750.00g	900.00g	1050.00g	1200.00g	1350.00g	1500.00g

## MAINTENANCE

#### **CHANGING YOUR SWIM 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. For the pool section we recommend that you replace a third of your pool water every 4 months.

#### Steps to drain your swim spa:

- 1. Disconnect electrical power supply.
- 2. open door to equipment compartment.
- 3. Drain water from spa by completing the following:
- a). Locate drain valve at floor level.
- b). Open drain valve by twisting ball valve.
- c). Allow to drain by gravity only.

d). At the end of the procedure re-close the ball valve by reversing the instructions.

e). For swim spas with two volumes of water, to drain the spa end of the swim spa follow the same procedures as above but using the ball valve dedicated to the spa end.

**Note 1:** Drain water to an area that can handle the water volume of your swim 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 swim spa shell refer to 'SWIM SPA SHELL CARE'.

#### Steps to refill your swim spa:

1. Check that the drain valves are fully closed.

2. Close door to equipment compartment.

3. Refill swim spa with tap water. Fill the swim spa to the midway level of the skimmer in each section. The depth should be approximately 150mm -190mm  $(6-71/2^{"})$  down from the top rim of the swim 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 pool with a 50/50 mix of hard and soft water. The calcium balance should be between 250 and 500 parts per million.

4. Restore electrical power supply.

5. See 'Starting Your Swim 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 two years or when necessary. Only use genuine Riptide filter cartridge replacements.

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

#### SWIM SPA SHELL CARE

Your Riptide swim spa surface is durable and easy to clean:

#### Swim 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 swim 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 swim spa shell and void your warranty.

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

# CLEANING AND PROTECTING THE HEADRESTS

Clean on a regular basis with soap, water and a clean cloth. Use 303<sup>®</sup> 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 swim spa you must expect colour loss and gradual breakdown of headrest material due to the corrosive effect of chlorine and ozone.

#### **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 swim spa:

Debris from wind, trees and spa users will occasionally accumulate on the bottom of your swim spa. Your swim 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 Pool Buster. 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 swim spa as often as expected. For these Low-use or Nouse periods, we recommend the following:

#### Low-use:

If your swim spa is being used less than once per month, then you may wish to lower the temperature setting of the spa section by approximately 5°C. Lowering the temperature on your spa will cut your cost of operation if you are not using the swim spa for extended periods. However, you will need to adjust the temperature setting approximately 120 minutes before each use to heat the spa section to the desired level.

#### No-use for 1-2 weeks:

If you plan to not use your swim spa for 1-2 weeks, then we suggest that you not make any changes in operating your swim spa.

#### No-use for 2-6 weeks:

If you plan to not use your swim 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 swim spa for over 6 weeks, then it is suggested that you winterize your swim spa by taking the following steps:

#### SWIM SPA WINTERIZATION

1. Drain the water from the swim spa (see 'Steps to drain your swim spa' under 'Changing your swim spa water' in this Owner's Manual).

2. Drain the swim 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 swim spa shell (see 'Swim 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 swim spa

#### SWIM SPA DE-WINTERIZATION

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

**Note:** If your swim 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 swim spa and its equipment. If there is no one available to take care of the swim spa on a weekly basis, then it is recommended that you winterize your swim 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.

## SERVICE

#### **GUARANTEE SERVICE**

If your Riptide swim spa fails within the guarantee period and within the scope of its guarantee, contact your authorised dealer and schedule a service call.

**Note:** Damage caused by repairs made by someone other than an authorised Riptide technician will not be covered by your warranty.

#### **NON-GUARANTEE SERVICE**

We recommend having an authorised Riptide technician perform all repairs on swim spas that fail outside of warranty coverage or beyond the warranty period. If you are not able to use an authorised Riptide technician, we encourage you to request and use genuine Riptide replacement parts.

If you are not able to obtain service in your area, call us on 01245 265036.

#### **PURCHASE INFORMATION**

YOUR SWIM SPA SERIAL NUMBER

PURCHASE DATE

DELIVERY DATE

Riptide Pools Limited 41 Robjohns Road Chelmsford Essex CM1 3AG United Kingdom

Company No. 06356472 VAT No. 921 904 829



# $\mathbf{5}$ Year Structural / $\mathbf{5}$ Year Surface Warranty

Riptide warrants the galvanised steel sub frame not to crack or fracture for a period of five years from delivery date. Additionally, the Aristech surface material of the Riptide Swim Spa is warranted not to peel, crack, wrinkle, blister, yellow, efface or delaminate for a period of five years from the Exercise Pool/Swim Spa's delivery date. The Aristech surfaces are nonpermeable and will not absorb odours, bacteria or pollutants.

## **3** Year No Leak Warranty

Riptide warrants the Riptide Swim Spa not to leak for a period of three years from its delivery date. This warranty specifically covers leaks from the wall fittings, jet fittings, internal plumbing, internal glue joints, freeze drains and all bonded parts including the filter chamber, light lens and counter currents.

## **2** Year Lavaflow 3000 Warranty

Riptide warrants the Lavaflow 3000 heater against fault in manufacture or faulty workmanship.

### **3** Year UV Resistant Synthetic Wood Cabinet Warranty

Riptide warrants the UV Resistant Synthetic Wood cabinet material not to peel, crack, wrinkle, blister or delaminate and to be free from defects in workmanship for a period of three years from the Swim Spa's delivery date. This warranty specifically covers the cabinet's structural integrity, including all glue and integral bonded joints.

## **2** Year Component Warranty

Riptide warrants the electrical components, pumps, ozone generators, and other Riptide Swim Spa components against malfunction or defects in workmanship for a period of two years from its delivery date. Filter cartridges, light bulbs, spa pillows and cover locks are not included in this warranty, but are warranted to be free from defects in materials or workmanship at the time of delivery to the original consumer purchaser.

#### **1** Year Trim (Tile) and Cover Warranty

Riptide warrants the cosmetic trim and Swim Spa cover to be free from defects in materials and workmanship for a period of one year from the Swim Spa's delivery date.

Riptide Pools Limited United Kingdom

#### **Extent of warranty**

This warranty extends only to the original consumer purchaser of the Riptide swim spa when purchased and originally installed or relocated in the boundaries of the country of purchase. The Riptide swim spa warranty terminates upon any transfer of ownership or if the swim spa is installed or relocated outside the country of purchase. The customer must register their purchase with Riptide. at the below address to benefit from this warranty.

#### Warranty performance

In the event of a malfunction or defect covered under the terms of this warranty, an authorised service agent of Riptide will repair the Riptide swim spa. To obtain service, contact the authorised service agent who sold you the swim spa. There is no charge for parts or labour to repair the swim spa or its components. Service agents reserve the right to assess reasonable call out fees or travel based upon their individual policies. If the swim spa is installed outside of the normal servicing area of the selling dealer, or if normal access to the swim spa is not possible, extra travelling expenses and costs of access will be charged. These costs are not covered by this warranty.

Riptide maintains an extensive service network. In the event the consumer purchaser should not be able to either obtain service or satisfactory service from an authorised service agent, notify the service department of Riptide. Written notice of any malfunction or defect must be given within ten (10) days of the time the malfunction is discovered, and must be accompanied by the original consumer purchaser receipt of the swim spa, which shows the date of purchase. Notice must be given Riptide Pools Limited, 41 Robjohns Road, Chelmsford, Essex, CM1 3AG, UK Tel 01245 265036

#### Acts invalidating warranty

This warranty is void if this Riptide swim spa has been improperly installed, subjected to alteration, misuse or abuse, or if any repairs on the swim spa are attempted by anyone other than an authorised representative of Riptide. Alteration shall include component or plumbing change, electrical conversion or the addition of any non-approved sanitation or water purification device or heating system which contributes to a component or unit failure or unsafe operating system. Misuse and abuse shall include: any operation of the swim spa other than in accordance with Riptide's printed instructions, or use of the swim spa in an application for which it is not designed. Specifically: use of the swim spa in a non-residential application; damage caused by the operation of the swim spa outside the specified voltage requirements (230 + / - 10%), operation of the swim spa at water temperatures outside the ranges of 1°C and 42°C; damage caused by voltage spikes or "brown-out" conditions; damage caused by dirty, clogged or calcified filter cartridges; damage caused by the use of trichloro chlorine, chemical tablets in a floater, acid or by any other spa / pool chemicals or cleaners which are not recommended by Riptide; damage caused by allowing undissolved sanitizing chemicals to lie on the swim spa surface (no swim spa can withstand this kind of abuse); damage to components or surface caused by improper pH balance or other improper water chemistry maintenance; and damage to the swim spa surface caused by leaving the swim spa uncovered while empty of water and in direct exposure to sunlight (causing solar heating distress) are considered abuses and will invalidate warranty.

The standard swim spa covers are not designed to support heavy weight loads and should not be used as a seat. In extreme cases the lid could crack and break. This occurrence is considered abuse and is not covered under this warranty.

#### **Disclaimers**

Riptide shall not be liable for loss of use of the Riptide swim spa or other incidental, consequential, special, indirect or punitive costs, expenses or damages, which may include but are not limited to the removal of a permanent deck or other custom fixture or the necessity for crane removal. Any implied warranty shall have a duration equal to the duration of the applicable warranty stated above. Under no circumstances shall Riptide or any of its representatives be held liable for injury to any person or damage to any property however arising.

Riptide Pools Limited United Kingdom