



OWNER'S MANUAL

YOUR PERSONAL SPA RECORD

INSTALLATION DETAILS

DEALER _____

INSTALLER _____

DATE OF DELIVERY _____

SPA DETAILS

SPA _____

MODEL _____

SERIAL NUMBER _____

COLOUR _____

EQUIPMENT PACK _____

CIRCULATION PUMP FITTED NOT FITTED

SANITISER OZONE UV

JET PUMPS 1 2 3 4

HEAT PUMP FITTED NOT FITTED SIZE _____ KW



Dear Spa Buyer,

Congratulations on your purchase of a new Arcadia Spa. You now possess the ultimate passport to tranquility – a miniature vacation at home, ready and waiting for you in your own backyard!

We want you to enjoy your Spa. Many hours of research have gone into the design of your spa, to ensure the ultimate in hydrotherapy and relaxation. Only the highest quality components have been used, to ensure years of trouble-free operation. Your comfort and enjoyment has been designed into your Spa from the start.

Please take the time to read through this Owner's Manual. In it, you will find guidelines on caring for your spa, a complete explanation of the controls, safety instructions, a troubleshooting section, and lots more.

Once again, we welcome you to the family of Arcadia Spa owners.

Sincerely,
Andrew Pullen
General Manager
Arcadia Spas
Australia

SAFETY INSTRUCTIONS AND WARNINGS

When installing and using this electrical equipment, basic safety precautions should 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. **KEEP SPA COVER LOCKED WHEN NOT IN USE.**
3. **THIS APPLIANCE MUST BE INSTALLED BY A QUALIFIED SERVICE TECHNICIAN.** All electrical connections must be performed by a licensed electrician and must confirm to all national, state and local electrical codes in effect at time of installation.
4. The appliance must be connected to a suitably rated and weather protected power supply.
5. The supply line should be a dedicated power circuit and means for disconnection must be incorporated in the fixed wiring in accordance with your local wiring regulations.
6. Means for disconnection from the supply mains should have a contact separation in all poles that provide full disconnection under overvoltage category III conditions.
7. **The appliance should be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.**

8. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
9. The appliance is not intended for use by young children or infirm persons unless they have been adequately supervised by a responsible person to ensure they can use the appliance safely.
10. Young children should be supervised to ensure they do not play with the appliance.
11. In order to avoid the possibility of hyperthermia (heat stress) occurring it is recommended that the average temperature of the spa pool water should not exceed 40°C.
12. The control box, heater, pumps and other electrical items should only be serviced by a qualified spa service technician
13. Do not operate electrical appliances within 1.5m of the spa

NOTE: It is the owner's responsibility to display all required safety notices within view of the spa.

IMPORTANT GENERAL OPERATING INSTRUCTIONS

The following operating and maintenance instructions are very important and must be followed carefully. With proper care and maintenance your spa will provide you with years of satisfaction with minimum effort.

1. The filtration pump should be operated for a minimum of four (4) hours per day for cleaning and filtering of the spa water (your spa has been configured to 4hrs by default). Information on adjusting filter duration can be found in the control panel's instruction manual.
2. The length of time required to heat your spa to the desired water temperature will vary, depending on the air temperature, season, and wind velocity. Therefore, this is something each owner must adjust to their desired liking. We highly recommend using the hard cover to minimize heat loss and to protect your spa when not in use.
3. The spas filter cartridges should be removed and hosed down weekly using a water hose with pressure nozzle. Make sure all pumps are turned OFF before removing the cartridge(s) for cleaning. In addition, at least once a month the cartridges should be removed and soaked in a filter cartridge cleaning solution for a minimum 30 minutes (or as directed by the cleaning solution's instructions). After soaking the cartridges should be thoroughly rinsed using a water hose with pressure nozzle. The frequency of soaking required varies with amount of spa use. The more the spa is used the more often the filters should be cleaned.
4. Keep the spa water level at least 50mm above the skimmer at all times. Never allow the water level to drop below the bottom of the skimmer opening. If the water level is too low, the skimmer will allow air into the water lines of the pump, causing it to lose its prime (water - flow). **Running the pump without water flow will damage the pump seal assembly and could result in further equipment damage, which will not be covered by the product warranty.**

5. It is your responsibility to regularly check and maintain the chemical water balance of the spa pool to ensure it remains within reasonable pH (acid/alkaline) limits (7.4 - 7.6 pH). Unbalanced water chemistry greatly accelerates corrosion and may lead to early product or component failure. **Product or component failures caused as a result of poor water chemistry maintenance will NOT be covered by the product warranty.**

6. Your spa may be equipped with an ozone system to assist with water sanitization and filtration, however your spa water will still require regular treatment with some form of chemical spa sanitiser. Consult your local spa dealer for advice on regular water testing and treatment procedures.

7. You should empty and clean your spa at least every 3-4 months. Performing a pipe and jet degrease before draining is recommended. Drain the spa water and use a liquid cleanser free of abrasives to clean your spa. Fill with regular tap water and chemically treat the water before use, for a clean and healthy spa.

8. **CAUTION: Cover must be kept on spa at all times when spa is drained or winterized. When spa shell is empty, direct exposure to sunlight can damage plastic parts and interior surface, jets, or any other interior components. Damage resulting from the above will not be covered under the product warranty.**

BASIC INSTALLATION INFORMATION

Your new portable spa must be placed on a uniformly firm, flat, and level surface. A concrete pad 100mm thick is recommended. Your spa should be fenced with the fencing meeting relevant building and council standards. Gates must be self closing and self-latching. If your spa is located near sprinklers, adjust or cap them so as not to hit the siding of the spa.

If the spa is to be installed on a deck, the decking must be constructed to building standards and should be capable of supporting the expected load of the spa when filled. If decking is to be constructed around the sides of the spa the owner must remember to make provision and access for the side panels of the spa cabinet to be removed in case of the need for future servicing.

Initial start up procedure

1. 15 amp spas are supplied with a power cord but must be connected to a weatherproof 15A outlet. 32 amp – 60 amp spas must be hardwired directly to your house supply. All electrical connections must be performed by a licensed electrician and must confirm to all national, state and local electrical codes in effect at time of install.
2. **DO NOT turn power ON to the spa until it is filled with water.**
3. Remove the cabinet door panel on the electronic keypad side of the spa and check that the pump(s) and heater barrel unions are tightened (NOTE: It is possible for these connections to become loose during transportation). Also check that all T-handled gate vales are pulled UP in the open position.
4. Ensure that the external drain valve is firmly tightened and the jets are in the open position.

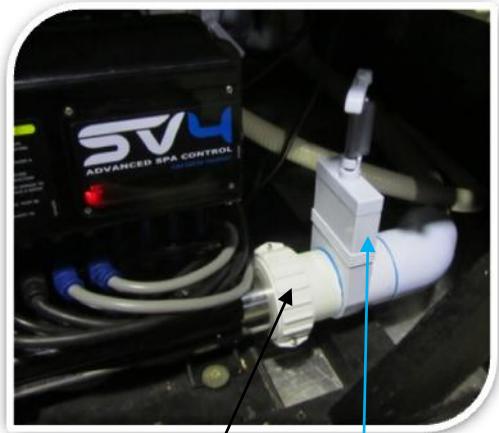
5. Remove the filters from the spa and fill the spa using a garden hose by inserting the hose down into the filter pipe. This will flood the pipe work during filling to help prevent air locks. If you have 2 x filters, alternate the hose into each filter for the first 5 minutes.
6. Spa should be filled until the water level is at least 50mm above the skimmer (a water fill level is marked on the side of the filter area). Maximum water depth in any part of the spa should not exceed 1100mm. Maximum water depth in any seat should not exceed 600mm.
7. Once spa has been filled with water to the correct level, plug the power cord into the power point and switch the power ON. If the spa is hardwired, switch the spa ON at the isolation switch. Any switches should be located within 2 metres of the spa.
8. The filtration pump will start immediately after the power is turned on. ENSURE THAT YOU SEE WATER CIRCULATING. If water is not visibly moving, switch the spa OFF, wait 30 seconds and try again, if you still do not have water flowing, turn the power off and refer to the troubleshooting section at the back of this manual for fixing an air lock.
9. Once you have the water circulating, adjust the water temperature to the desired level and set the time (please refer to separate instructions provided for the control panel).
10. Add and adjust your chemicals to the spa water following the chemical start up procedure supplied to you by your spa dealer.
11. Ensure that the hard cover is placed on the spa & locked as this will greatly reduce heat up time.

START UP OR REFILL CHECKLIST

Remove spa cabinet side panel (on keypad side) to access equipment bay

1. Check Barrel Unions are tight

Barrel unions are the connections between the pumps and heater and the plumbing of the spa. If they become loose, this can cause water loss. It is important to check the tightness of these unions periodically, and especially when spa is first delivered. The unions are designed to be retightened by hand. Rotate the locking nut clockwise to tighten. **NOTE:** If you see water escaping from beneath your spa, the barrel unions should be the first thing you check. LEAKS FROM BARREL UNIONS ARE NOT COVERED BY THE SPA'S WARRANTY.

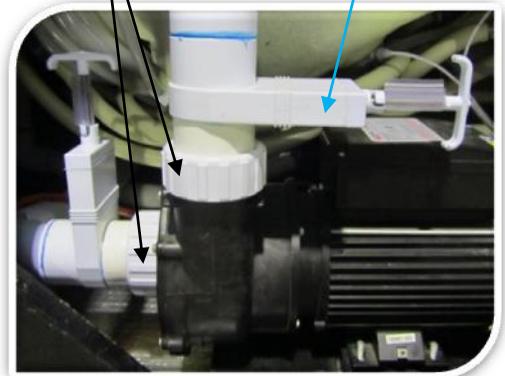


Valves (open)

Barrel Unions

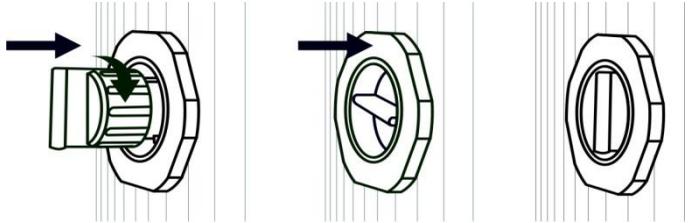
2. Check valves are open

T-handled valves enable the water flow to be closed to allow removal of spa equipment for servicing without the need to empty the spa water. The T handles must be pulled UP to be OPEN and allow water flow, and they should be secured open with clips.



3. Check drain valve is closed and firmly tightened

Please refer aside illustration showing the valve being closed.



4. Check all jets are open

Water flow to most jets can be turned on or off by rotating the jet face clockwise(on) or anti-clockwise(off). Check to ensure all jets are open before filling with water.



5. Fill water to correct level in spa

The spa should be filled until the water level is at least 50mm above the skimmer

NOTE: Always remember to remove the filters and fill spa through filter pipes

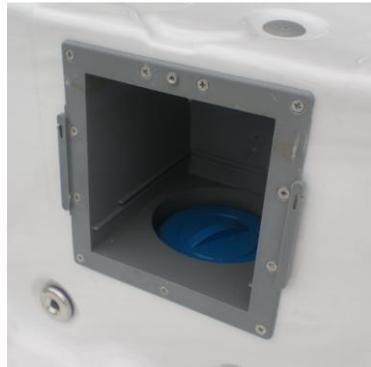


GETTING TO KNOW YOUR SPA

Your new Arcadia portable spa has many features to help adjust and customize the water flow to your chosen configuration and enjoyment. Individual jets can be turned on and off, aeration to water flow can be adjusted, water can be diverted to certain specific zones and jets of the spa or mixed throughout, and waterfalls and fountains can be turned on and off. The following pages and pictures will give you a brief overview of how to adjust and use some of the various features.

Filter Cartridges

Most Arcadia Spas are equipped with one or two filter cartridges (depending on pump configuration). Refer picture below depicting differences in filter cartridges.



NOTE: Filter cartridges may require replacement or cleaning more frequently depending on length and frequency of regular spa use.

Removing filters

To remove filters simply unscrew the cartridge in an anti-clockwise direction and pull out from spa pool.

Single style cartridge requires a tool to unscrew the face to access the filter. Ensure you use the screw to re-fit the filter face after cleaning for safety reasons.

Reinstalling filters

When reinstalling filters first hold the cartridge underwater until the air stops bubbling (at this point most air has been removed from the cartridge). Then screw the cartridge back into place in a clockwise direction.

NOTE: DO NOT screw the cartridge back into place excessively tight. Only screw the cartridge until it no longer spins freely. The suction from the pumps will pull the cartridges in further once operated. If the cartridge is screwed in place excessively tight before pump operation the cartridge may be difficult to remove or could even cause the filter thread connection to twist or break the next time the cartridge is removed and breakage is not covered by warranty.

Air Venturi Controls

Each seat in your spa will have an air venturi control. This regulates the amount of air that flows through the jet with the water. The more air, the more powerful the jet's stream. You can adjust the pressure in the entire seat by adjusting this air venturi control clockwise or anti-clockwise.

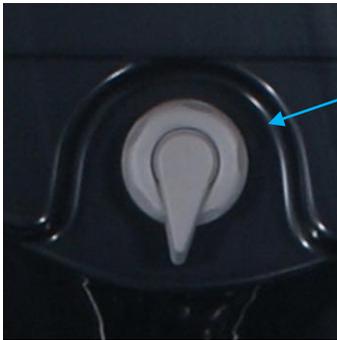


← Air Venturi Control

NOTE: Upon completion of spa use the air venturi controls should be turned back to the OFF position (no air through jets). This prevents air entering the spa and cooling the water when spa not in use.

Water Diverters

Your spa may be fitted with one or more water flow diverters. These diverters control the flow of water from each jet pump between various zones of the spa. You can have full pressure in one zone and no pressure in another zone by turning the diverter handle all the way to the left or right, or part pressure in each zone by setting the diverter handle to the middle position.

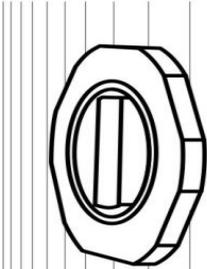


Water Diverter

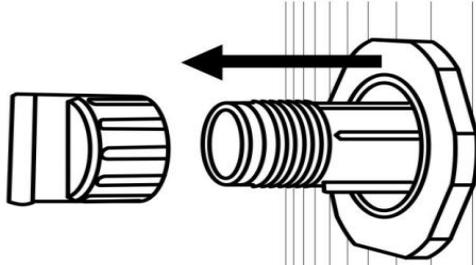
NOTE: It is important NOT to push these diverter handles past the natural stop point as breakage is not covered by the spa's warranty.

DRAIN VALVE INSTRUCTIONS

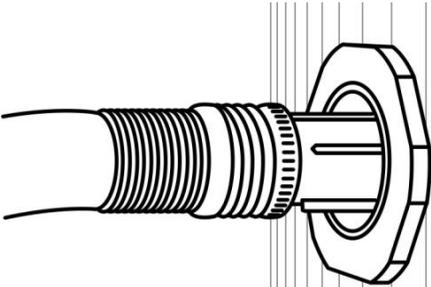
OPEN: How to open valve and connect hose



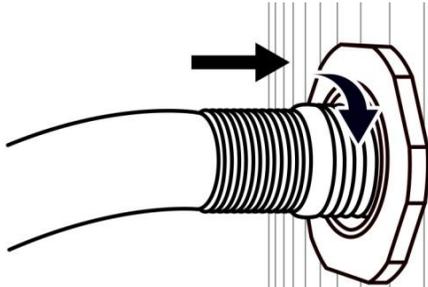
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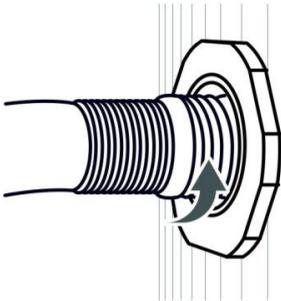


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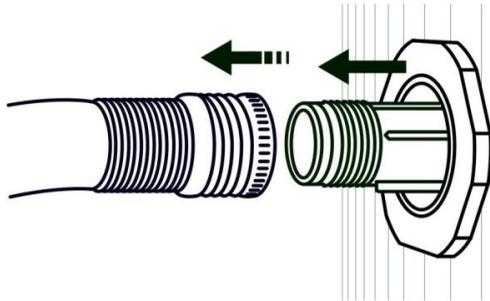


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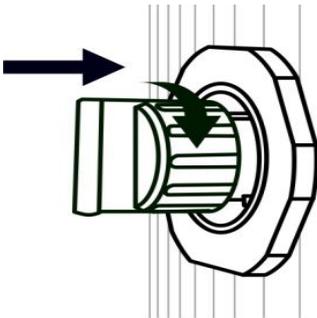
CLOSED: How to disconnect hose and close valve



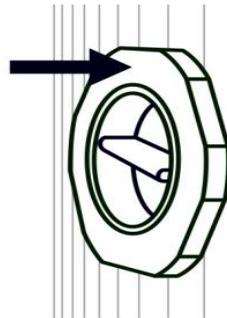
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SPA POOL MAINTENANCE

If you own a spa pool or hot tub, it is important to understand that it requires a certain amount of owner maintenance to ensure it operates properly and that the water remains clean and healthy. The water treatment requirements for a spa pool differ from those for a swimming pool, because you are dealing with hot water. Hot water requires different treatment to prevent the growth of bacteria and algae.

The correct use of chemicals will maintain the water in a clean and healthy condition. The parameters that need to be regularly checked are, total alkalinity, pH and sanitiser level. Your local spa retailer should be able to supply a suitable test kit and advise on its correct use. It is advisable to test the water on a daily basis.

Special note:

Do not mix chemicals

*Do not add water to the chemicals, **only** add chemicals to the water*

Changing the water

The spa water should be changed every three to four months, or remove and replace approx 30% or 1/3 of the volume of water every three to four weeks.

Total alkalinity

The total alkalinity should be in the range of 90 - 150 ppm (parts per million). A spa or hot tub with low total alkalinity would require constant adjustment of the pH. To raise total alkalinity, add sodium bicarbonate in small quantities. To lower the total alkalinity, add acid (Dry Acid – Sodium Bisulphate) in small quantities. Test in one hour.

The pH level

pH is the measure of the acid/alkaline level of the water. It is important to maintain the correct pH level as it affects the action of other chemicals. The pH is measured on a scale of 1 to 14. Seven is neutral, below seven is acidic, and above seven is alkaline.

Incorrect pH levels can cause poor sanitiser efficiency, eye and skin irritations, corrosion of metal fittings, cloudy water and formation of scale on the pool walls and fittings. The pH should always be above 7.0 (measured at room temperature, not hot) to avoid possible corrosion of equipment. However, it should not be higher than 7.8, as this would reduce the efficiency of the sanitiser.

If the pH level needs to be increased, add soda ash; to reduce the pH level, add dry acid. Wait for one-hour and test again.

Sanitising the spa

Sanitising your spa is essential for safe, healthy water, free of harmful micro-organisms. The most commonly used sanitiser for spa pools is a form of chlorine (Lithium Hypochlorite). Ozone may also be used, but because there can be no residual, a form of chlorine must be used in conjunction with it.

The amount of disinfectant required depends on a number of factors, including, water temperature, the frequency of use and the number of people using the spa. It is most important to always keep the sanitiser level at 2.00 to 3.00 ppm. In very hot water the sanitiser can be used up very quickly, and should be checked regularly whilst the spa is being used.

After heavy use of the spa or on a weekly basis, the water should be shock dosed with sanitiser. Be sure to check the level again before use. If the spa or hot tub is not being used, add sanitiser every second day to prevent contamination.

Recommended Levels

ITEM	LEVEL
Sanitiser (Chlorine)	2.0 – 3.0 ppm
Total Alkalinity	90 – 110 ppm
pH Level	7.4 – 7.6

It is important to note that if the right pH and sanitiser levels are maintained, viruses and bacteria should not survive in the water. In terms of general hygiene, it is important to keep the filter and pump clean. Clean the filter regularly and where ever possible always shower before spa use.

PUMP MAINTENANCE

The pumps in your spa are high performance motors that require regular checking. It is a requirement of your spa's warranty to check the pumps every four (4) months for signs of leaking or corrosion.

Any sign of leaking or calcium build up at the bottom of the pump between the plastic wet end and metal part of the motor indicates that the seals of your pumps are worn and need replacing. It is recommended that you contact your local spa dealer to arrange a service of your pump before the motor develops further problems.

Pump seal corrosion and wear is generally caused by incorrect pH and alkalinity levels within the spa, or heavy use /excessive dosage of sanitisers such as

Chlorine or Bromine. In order to avoid problems, please follow the water chemistry instructions provided to you by your dealer.

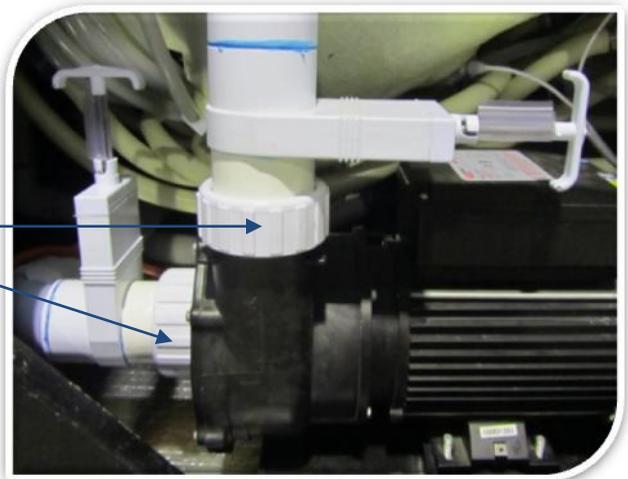
BARREL UNION MAINTENANCE

Barrels unions are the connections between the pumps and heater and the plumbing of the spa. They are used to enable easy removal of the spa equipment in the event of servicing. However over time with vibration from pumps and water flow, and ageing of o-ring seals, it is possible for the unions to work loose.

If they become loose, this can cause water loss. It is important to check the tightness of these unions periodically. The unions are designed to be retightened by hand. Rotate the locking nut clockwise to tighten.

NOTE: If you see water escaping from beneath your spa, the barrel unions should be the first things you check. LEAKS FROM BARREL UNIONS ARE NOT COVERED BY THE SPA'S WARRANTY.

BARREL UNIONS



TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
No power to spa	<ol style="list-style-type: none">1. Power cord unplugged2. Isolator switch OFF3. ELCB/RCD tripped4. Faulty power point5. Faulty control panel	<ol style="list-style-type: none">1. Check plug connection2. Check power switched ON3. Reset breaker in meter box4. Test another appliance from the power point5. Contact spa dealer
Pumps run but no water moving (Air Lock)	<ol style="list-style-type: none">1. Water level too low2. Air lock in plumbing3. Shut off valves closed	<ol style="list-style-type: none">1. Add water to spa fill mark2. Remove all filters and flush filter pipes with water from garden hose. If unsuccessful turn power off and slightly loosen barrel union to pump to release (bleed) air from pipes. Once air has been released and water is flowing retighten union3. Check all valves are open
ELCB/RCD tripping	<ol style="list-style-type: none">1. Drawing excess current2. Spa not wired to dedicated circuit3. Water on electrical components4. Earth leakage problem	<ol style="list-style-type: none">1. Heater load shed not configured, contact dealer2. Spa pools must be supplied by a dedicated power circuit, not through an extension cord3. Check water level, lower if overfilled. Power OFF, remove side panels and allow time for equipment bay to dry out4. Turn power off and inspect power cable for damage. Contact electrician or spa dealer for advice

PROBLEM	CAUSE	SOLUTION
Will not heat	<ol style="list-style-type: none"> 1. Time not set correctly 2. Sleep timers or power save settings incorrect 3. Heating Mode set to Away or Weekend 4. Air blower ON all the time 5. Thermostat turned down 6. Excessive heat loss 	<ol style="list-style-type: none"> 1. Set the clock on control pad 2. Read control pad manual & check timer settings, consult spa dealer for assistance 3. Check heating mode in control pad menu is set to normal (NORM) 4. Turn air blower off. Heating is inefficient when the blower is running 5. Check set temperature point and raise if needed 6. Fit hardcover to spa and ensure it is fitted correctly
Water not clean	<ol style="list-style-type: none"> 1. Filter clogged or due for replacement 2. Poor water chemistry 3. Filter duration not set high enough 	<ol style="list-style-type: none"> 1. Clean and soak filters, or replace Purezone micro filter 2. Check water balance and sanitiser levels. Refer to chemical instructions. 3. Increase daily filtration time in control pad setup menu
ER-3 Water Prime & ER-4 Thermal Trip Errors	<ol style="list-style-type: none"> 1. Low water level 2. Dirty filters 3. Air lock in pipe work 4. Fault with filtration pump 	<ol style="list-style-type: none"> 1. Refill spa if necessary 2. Clean, soak or replace filters 3. Bleed air from pipe work by loosening barrel unions 4. Contact dealer for service