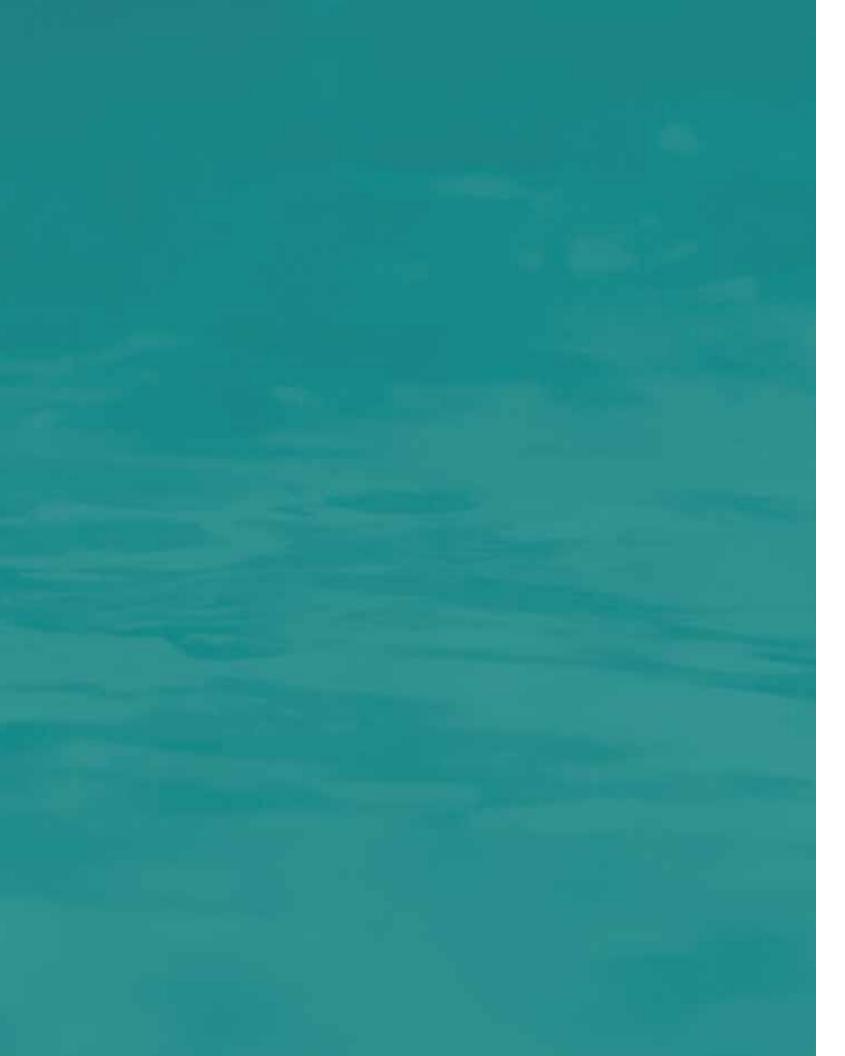


Arcadia Spas User Manual







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, Arcadia Team Arcadia Spas





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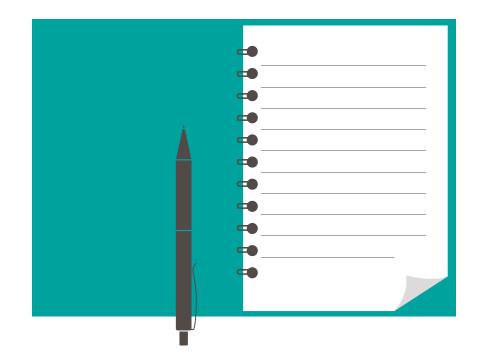
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Your personal spa record.

We appreciate your business and our sincere desire is that you receive years of pleasure and therapy from your Arcadia Spa. Please call your local Spa Dealer if you have any questions or problems.



INSTALLATIO	N DETA
Dealer	
Installer	
Date of delivery	
SPA DETAILS	
Spa	
Model	
Serial number	
Colour	
Equipment pack _	
Circulation pump	□ Fitted
Sanitiser	🗆 Ozone
Jet pumps	□1 □2

ΑΙ	LS

d	□Not fitted
ne	$\Box UV$
2	□3 □4

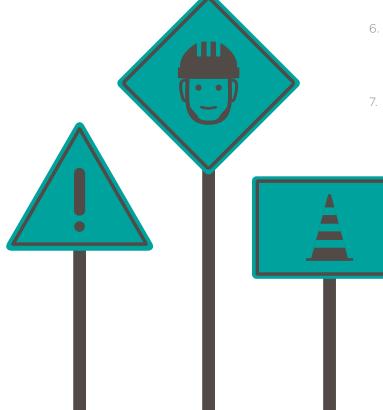
Safety instructions and warnings.

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.
- 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.



Spa pool safety rules

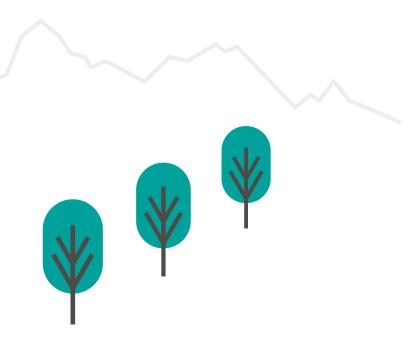
1. This spa pool is a heated water environment and if you are concerned that it may adversely affected you it is your responsibility to seek a medical advice.

2. NEVER PUT HEAD UNDER WATER.

- 3. All children must supervised by an adult.
- 4. Do not use the spa pool area while under the influence of drugs or alcohol (certain medications may produce adverse effects).
- 5. It is safer not to use the spa pool alone.
- 6. It is recommended that you use the spa pool for no longer than 15 minutes at a time.

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 replaceable filter cartridges are trouble free and easy to clean. A routine cleaning is the best practice. 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.
- Your spa may be equipped with an ozone sanitiser 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 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 warranty.

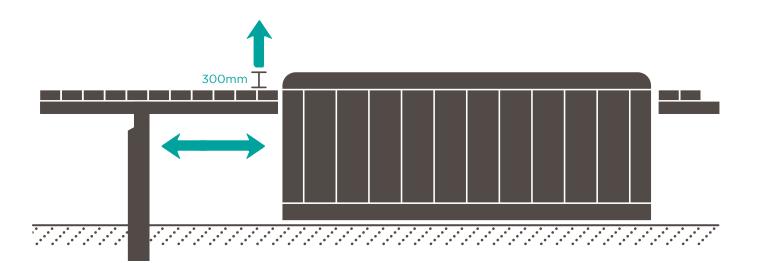


Basic Installation Information.

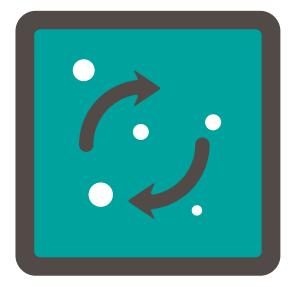
Your new portable spa must be placed on a uniformly flat and level surface. A concrete pad 100mm thick is recommended. We recommend you contact your local council for up to date fencing regulations and requirements. If your spa is located near sprinklers, adjust or cap them so as not to hit the siding of the spa.

Initial start up procedure

- 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 each filter from the spa and insert your garden hose down the filter lines for at least 5 minutes each. This will flood the pipework of the spa and help prevent air locks in the pipework.
- 6. Your 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).



- 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 3 metres of the spa.
- 8. The filtration pump will start immediately after the power is turned on. **ENSURE YOU SEE WATER CIRCULATING**. If water is not moving, switch the spa off and refer to the troubleshooting guide in this manual: **PUMPS RUN BUT NO WATER MOVING**.
- 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 fitted to the spa 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

Barrels 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.

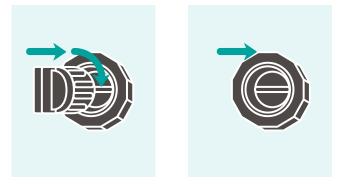
2. Check valves are open

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 below illustration showing the valve being closed.



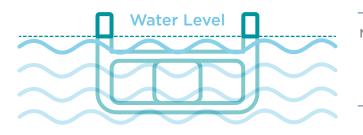
4. Check all jets are open

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 A water fill level is marked on the side of the filter area (refer picture below).





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 spas are equipped with one or two filter cartridges (depending on pump configuration). If your spa is fitted with two filters, we recommend that you rotate your filters with each clean.

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 anticlockwise direction and pull out from spa pool.

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

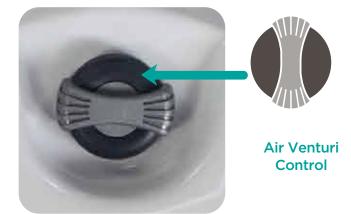
Each zone of your spa will have an air venturi control. This regulates the amount of air that flows through the jet with the water. The more air, the more powerful the jet's stream. You can adjust the pressure in the entire seat by adjusting this air venturi control clockwise or anti-clockwise.

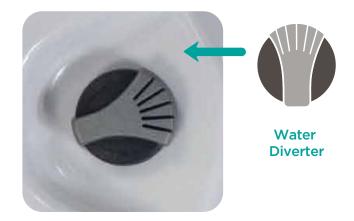
NOTE: Upon completion of spa use the air venturi controls should be turned back to the **OFF** position (no air through jets). This prevents air entering the spa and cooling the water when spa not in use.

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.

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.

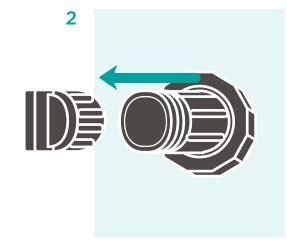




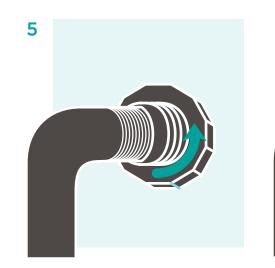
Drain valve instructions.

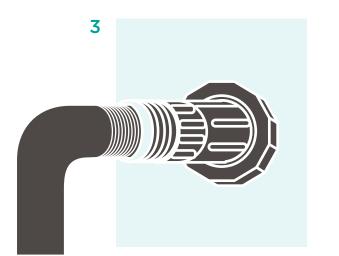
Open: How to open valve and connect hose

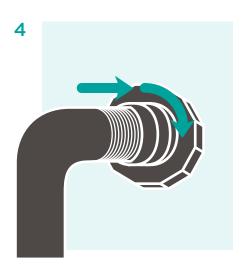




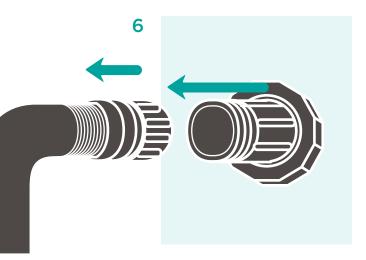












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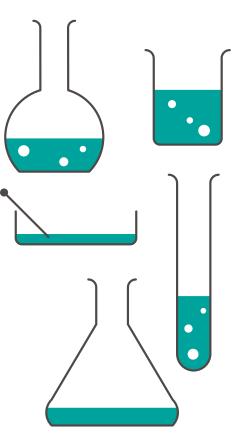
Spa pool maintenance.

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

IMPORTANT: Not maintaining your water chemistry can void parts of your spa warranty.



Changing the water

The spa water should be changed every three to four Sanitising your spa is essential for safe, healthy water, months, or remove and replace approx 30% or 1/3 of the free of harmful micro-organisms. The most commonly volume of water every three to four weeks. 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 Total alkalinity in conjunction with it.

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 effects 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

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

ltem	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.

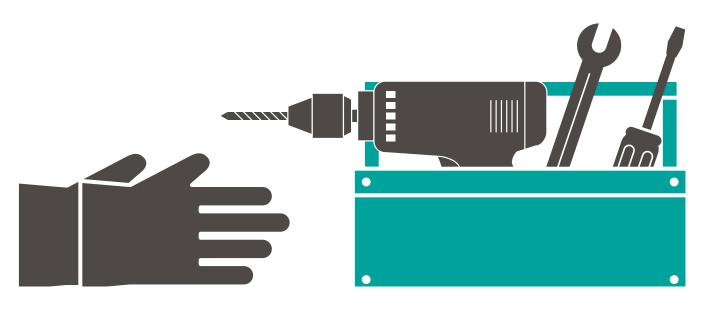
Pump seal corrosion and wear is generally caused by incorrect pH and alkalinity levels within the spa, or heavy use /excessive dosage of sanitisers such as Chlorine or Bromine. In order to avoid problems, please follow the water chemistry instructions provided to you by your dealer.

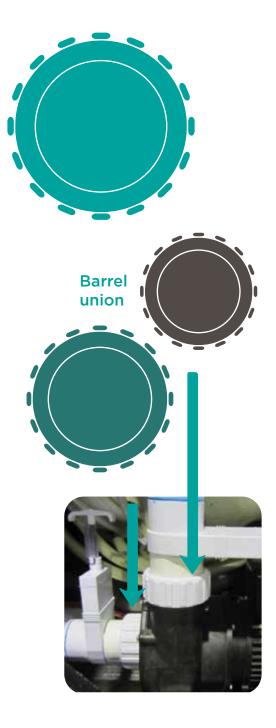
Barrel union maintenance.

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 thing you check. **LEAKS FROM BARREL UNIONS ARE NOT COVERED BY THE SPA'S WARRANTY.**





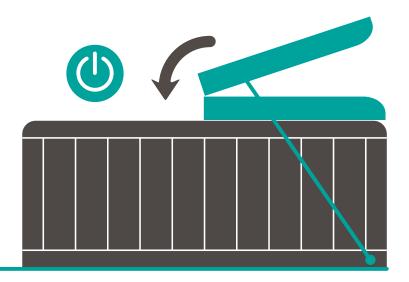
Shutting down your spa:

We firmly recommend that you **NEVER** leave your spa empty for a period of 2 weeks or more, leaving your spa empty can cause damage to the pumps, heater element and shell. In most cases you are better off turning the temperature of your spa down to the minimum setting and maintaining your PH & Alkalinity levels to ensure they stay within recommended readings.

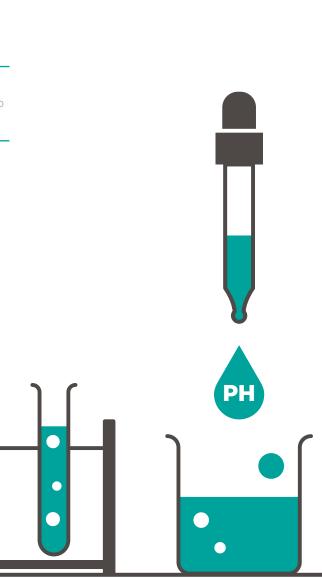
If for some reason you need to empty your spa for a period longer than 2 weeks we recommend the following.

- 1. Empty your spa as per the drainage instructions in the owner's manual.
- 2. Once the spa is empty, open the cabinet door to gain access to your controller and all pumps.
- 3. Undo the barrel unions that connect the plumbing to the spa controller/ heater and pumps. Undoing these unions will allow any excess water in the pipework of the spa to be drained. Without following this process stagnant water will sit in the pipework and cause damage to the seals in your pumps and your heater element and control sensors. (Damage related to incorrect water chemistry is not covered under the manufacturers warranty)
- 4. Once the spa pipework is empty of water, carefully re-connect and tighten the unions ensuring that the O-ring seal is seated correctly.
- 5. Hop into the spa and using a sponge and bucket, soak up any residual water remaining in the spa.

- 6. At this point it is a good time to clean the water line on the spa if required, you can use a nonabrasive cloth with some mild detergent. (Be sure to rinse any detergent from the spa before re-filling.)
- 7. Our recommendation is to leave the cover off for a period of time to allow the shell to dry. (As per warning instructions on the shell, do not expose the acrylic shell to direct sunlight for extended periods of time)
- 8. Once you are satisfied that there is no excessive water in the spa and that it has been cleaned to avoid bacteria growth, you can place the cover on the spa for protection.
- **NOTE:** It is recommended that you lift the cover from time to time over the course of the shut down to allow the spa to breathe.









Troubleshooting.

Problem	Cause	Solution	Problem	Cause	Solution
No power to spa	 Power cord unplugged Isolator switch OFF ELCB/RCD tripped Faulty power point Faulty control panel 	 Check plug connection Check power switched ON Reset breaker in meter box Test another appliance from the power point Contact spa dealer 	Will not heat	 Time not set correctly Sleep timers or power save settings incorrect Heating Mode set to Away or Weekend 	 Set the clock on control pad Read control pad manual & check timer settings, consult spa dealer for assistance Check heating mode in control pad menu is set to normal
Pumps run but no water moving	1. Water level too low	 Add water to spa fill mark Remove all filters and flush filter pipes with water from garden hose. If unsuccessful 		 Air blower ON all the time Thermostat turned down Excessive heat loss 	 (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
		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 union	Water not clean	 Filter clogged or due for replacement 	 Clean and soak filters
ELCB/RCD tripping	Shut off valves closed	 Check all valves are open Heater load shed not 		 Poor water chemistry Filter duration not set high 	 Check water balance and sanitiser levels. Refer to chemical instructions. Increase daily filtration time in
ELCB/RCD tripping	 Drawing excess current Spa not wired to dedicated circuit 	configured, contact dealer 2. Spa pools must be supplied by a dedicated power circuit, not		enough	control pad setup menu.
	3. Water on electrical components	 through an extension cord 3. Check water level, lower if overfilled. Power OFF, remove side panels and allow time for equipment bay to dry out 	Water at base of the spa.		 Check for condensation from spa cover The wine cooler (if fitted) self drains which will create water at base of spa. This is normal
	4. Earth leakage problem	4. Turn power off and inspect power cable for damage. Contact electrician or spa dealer for advice			 Wait to see if moisture dries out Remove cabinet panel under touch pad and inspect all barrel union connections as per page 23
ER-3 Water Prime & ER-4 Thermal Trip Errors	 Low water level Dirty filters 	 Refill spa if necessary Clean, soak or replace filters 			in this manual
	 Air lock in pipe work Fault with filtration pump 	3. Bleed air from pipe work by loosening barrel unions	You have identified a spa leak.		 If a barrel union connection is leaking, please tighten as per instructions
		4. Contact dealer for service			2. If you have a leak from a jet body or plumbing, please call the service department or your local dealer

Note: If possible, please take a photo and send to the service department or technician, to assist with the speed of the repair.

Note: Repairs are subject to warranty conditions, which have been provided with your spa. If you are unsure of your

Heat pump connection instructions (if purchased).

- 1. Turn off spa and close shut off valves to the circulation pump and controller. (Marked 1 on the diagram).
- 2. Consult the Spa Net installation guide to connect power and control wire.
- 3. Remove existing plumbing between circulation pump and SV controller. (Marked 2 on the diagram)
- 4. Fit the new 40mm circulation pump union supplied and point it in the direction where the heat pump will be located.
- 5. Cut holes into the cabinet where the pipe will run into the heat pump, be sure cut the holes at a height that allows the pipes to remain even and supported on the cabinet.
- 6. Run 40mm pipe form the circulation pump to the inlet of the heat pump.

7. From the outlet of the heat pump, run 40mm pipe to the inlet of the SV controller using the supplied union to make new the connection.

NOTE: You must use PVC hard pipe on the outside of the spa, flexible pipe may only be used internally.

- 8. Open the shut off valves. (Marked 1 on the diagram).
- 9. Undo the top outlet on the heat pump to bleed air out of the system.
- 10. Close it once water comes out and then switch on the spa.
- 11. Make sure the circulation pump is flowing and is free of any air locks.

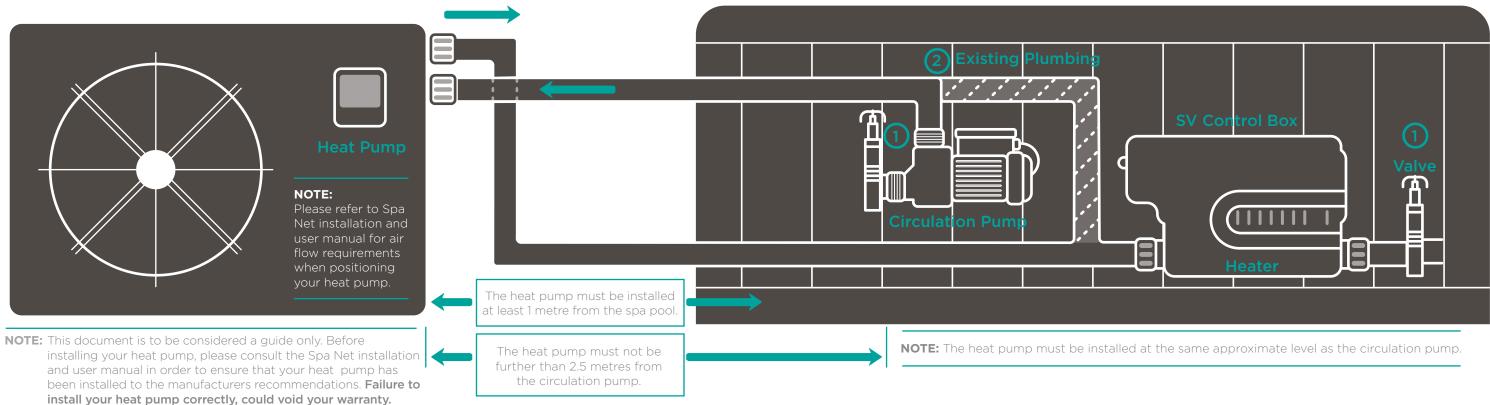
Parts supplied:

- 1x circulation pump barrel union.
- 1x 40mm 90 Degree Street elbow.
- 1x SV barrel union.

Tools and parts required:

- 40mm or larger hole saw
- PVC Pipe Glue
- Hacksaw
- 40mm hard pipe
- (The amount of pipe or fittings required will depend on your installation)

(Standard paper cartridge filters are recommended when a heat pump filter is fitted).



Spa Pool

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