



PURESPAS
SPA POOL
MANUAL



alpine spas™





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Congratulations!

You are the proud new owner of a Pure Spa! It is our pleasure to welcome you to the Alpine Spa family. Luxurious hours soaking under the stars whilst enjoying good company and hydrotherapy massage, is now ready and waiting for you every day, all within the confines of your own backyard!

We take exceptional pride in our product and have worked hard to ensure all our spa pools include not only the latest in spa pool technology, but also the absolute best in design, quality and construction. So you can rest assured our products will last you for many relaxing years to come.

Cheers,

The Alpine Spas Team





Welcome

Please take the time to read this entire manual before operating the spa pool. This manual contains important information for the owner and we suggest keeping it in a safe place for future reference. Every effort has been made to ensure the accuracy of this manual, however Alpine Spas reserves the right to change or improve their products and their specifications without notification. If you have any questions about this manual or the spa pool, please contact Alpine Spas for assistance. Please refer to our website for terms & conditions.



The latest version of this owners manual, along with other helpful material can be downloaded from our support page: <http://alpinespas.co.nz/support/>

Your Personal Record & Warranty

Spa Pool Details

Please fill in this information below and keep on hand for future reference. Alpine Spas may request this information upon the submission of a service or technical request.

Your name.....

Spa Pool model.....

Serial number (found on silver cabinet plaque).....

Date of purchase.....

Date of installation.....



IMPORTANT WARRANTY INFORMATION:

Spa Pool warranty is effective from date of delivery & is not transferable. Please contact Alpine Spas for all information regarding warranty. Warranty may be void due to improper operation, care or negligence. Certain routine water care and general care requirements along with operation guides are found throughout this manual, please read and follow all instructions. Perform routine maintenance as per pages 42-50



READ AND FOLLOW ALL INSTRUCTIONS!

WHEN INSTALLING AND USING THIS SPA POOL AND ITS ELECTRICAL COMPONENTS, BE SURE TO FOLLOW BASIC SAFETY PRECAUTIONS INCLUDING THE FOLLOWING:

1. **WARNING:**

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

2. **DANGER:**

Risk of accidental drowning. Extreme caution must be exercised to prevent unauthorized access by children.

3. **DANGER:**

Risk of injury. Never operate the spa pool if suction fittings are broken or missing.

4. **DANGER:**

Risk of electrical shock. Do not permit any electrical appliance such as a light, radio, television, etc. within 1.5m of a spa pool unless such appliances are installed and built-in by the manufacturer.

5. **ELECTRICAL SUPPLY:**

a) The electrical supply for this product must include a suitably rated switch & RCD to open all ungrounded supply conductors to comply with the national electrical standards. This disconnect must be readily accessible and visible to the spa pool occupant but installed at least 1.5m from the spa pool's water.

b) Please check the RCD each time before and after using the spa and wait at least 30 seconds.

6. **WARNING:**

To reduce the risk of injury:

a) Water temperature between 38°C and 42°C is considered safe for a healthy adult. Lower water temperatures are recommended for young children and when the spa pool use exceeds 10 minutes.

b) Since excessive water temperatures have a high potential for causing fetal damage during early months of pregnancy, pregnant women should limit spa pool use and water temperatures to no more than 38°C.

c) Do not use alcohol, drugs, or medication before or during spa pool usage.

d) Persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa pool.

e) Persons using medication should consult a physician before using the spa pool as some medication may induce drowsiness, while other medication may affect heart rate, blood pressure, and circulation.

7. **WARNING:**

To prevent electrocution, do not modify or connect any additional auxiliary components (for example cable, speakers, headphones, additional audio/video components, etc) to the system.



8. CAUTION:

Risk of electrical shock. Do not service the spa pool controller yourself as opening or modifying the controller may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel unless advised otherwise by the retailer.

9. CAUTION:

Risk of electrical shock. If the power supply connections or power supply cord(s) are damaged, if water is entering the audio / video compartment or any electrical equipment compartment area, if the protective shields or barriers are showing signs of deterioration, or if there are signs of other potential damage to the unit: turn off the unit and refer the servicing to Alpine Spas.

10. The spa pool should be subject to periodic routine maintenance and care according to the 'Spa Pool Care & Maintenance' and 'Service Information' sections of this manual.

11. Installation of the spa pool for anything other than a residential dwelling may result in voiding the manufacturer's warranty. Please contact the dealer to confirm.

12. Do not bring any object into the spa pool that could damage the spa pool shell.

13. Never insert any object into any opening.

14. WARNING:

Do not sit on the spa pool cover or place objects on it.

15. Remove any water or debris that may collect on the spa pool cover.

16. WARNING:

Do not use the spa pool immediately after strenuous exercise.

17. If you feel pain or dizziness at any time while using the spa pool, discontinue use and contact a physician.

18. WARNING:

Observe reasonable time limits when using the spa pool. Long exposures at high temperatures can cause high body temperatures. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning or hypothermia.

19. WARNING:

The spa pool's jets produce a stream of water with relatively high pressure. Prolonged exposure to localised areas of the body may cause bruises to the skin.

20. WARNING:

To avoid risk of drowning, the spa pool cover should be in place and properly latched when spa pool is not in use.

21. IMPORTANT:

Read and understand the warnings on the spa pool cover.



FAILING TO READ AND UNDERSTAND THE BELOW INSTRUCTIONS MAY VOID YOUR SPA POOL WARRANTY.

DO NOT leave the spa pool empty and exposed to direct sunlight without its cover - doing so may damage the acrylic.

DO NOT power the spa pool without first filling with water.

DO NOT allow the water level to fall below the filter/skimmer box. The water level should be kept in line with the minimum water line sticker or at least 50mm above the bottom of the skimmer box at all times.

DO NOT allow any persons to place their head under the water.

DO NOT roll or slide the spa pool on its side.

DO NOT use any chemicals or water balancing products in the spa pool, other than those sold by Alpine Spas Ltd, PureSpas Ltd or Spa Supplies Ltd.

DO ensure a water maintenance regime is used and followed regularly. Failing to balance water or sanitise correctly can damage spa pool components and void warranty. A guide is provided which should be followed carefully.

DO ensure the spa pool cover is placed on the spa pool and locked when not in use.

DO perform a regular spa pool cleaning schedule as instructed by this manual.

DO drain and refill your spa pool at least every 3-4 months or more frequently if required.

DO ensure the spa pool cover is opened every few days for a few minutes (if unused) to avoid build up of gas under the cover.



Placing/Installing the Spa Pool

Choosing the Best Position

When choosing where to position your spa pool, the first thing you should consider is what is going beneath it. Your spa pool is very heavy, weighing anything between 1000kg and 2500kg when filled. It is therefore very important you choose an adequate foundation that is strong and level to ensure there is no shifting or strain on the spa pool shell or framing.

The base we recommend you use is either a 100mm concrete pad, or a reinforced deck. If you choose a deck as a base, please check that it complies with all NZ building standards and that its max load rating will adequately withstand your spa pool's weight, plus the total bather load weight.

Check Drainage

You need to be sure the area in which the spa pool is placed has enough drainage capacity to handle the entire water content of the spa pool. In the event of spillage, areas around the spa pool may become wet; therefore, all flooring, furniture, walls and adjacent structures should be moisture-resistant.

Check Service Access

It is important to consider the access to the cabinet surrounding the spa pool. In the unlikely event of a leak or issue with components, a service agent may require access to a particular cabinet. We advise leaving a 600mm perimeter of space around the entire spa pool, otherwise the spa pool may need to be moved by the customer into a position suitable for a technician at the time of service. Access to all cabinets is the responsibility of the owner.

Detailed Installation Guide

For more detailed information and tips on positioning and installing, we highly recommend you read through our 'Pre-Delivery Guide'. The guide was emailed to you upon/after purchase. A copy can be downloaded from the link at the bottom of this page.



FAILURE TO FOLLOW THE INSTRUCTIONS IN THE PRE-DELIVERY GUIDE MAY RESULT IN VOIDING YOUR SPA POOL WARRANTY.



Download the 'Pre-Delivery Guide' from our support page:
<http://alpinespas.co.nz/support/>



SPA POOL CONTENTS

Separate Items:



Spa Pool



Spa Pool
Safety Cover



Cover Lifter
(Optional extra)

Items Packaged *Inside the Spa Pool:*



Filter



Cable Exit
Grommet



Cover Keys &
Screws



Drain Valve
Attachment

ASSEMBLING THE ACCESSORIES

Spa Pool Cover

The cover requires minimal installation other than unpacking and placing on top of the spa pool. There are safety locks hanging off the sides of the cover which need to be screwed into the spa pool cabinet by the customer. Screws and cover clip keys are attached to one of the cover hanging straps.

Spa Pool Cover Lifter (Optional Extra)

The cover lifter needs to be assembled onto the spa pool, please follow the instructions carefully. Some brackets may need to be secured onto the spa pool cabinet. Certain setups may have restrictions - see our 'Cover Lifter Installation Guide' for confirmation.



Download the 'VX3 Cover Lifter Installation Guide' from our support page: <http://alpinespas.co.nz/support/>



PRE-FILL PROCEDURE

STOP!! BEFORE FILLING, START HERE!



FAILING TO FOLLOW THIS PROCEDURE MAY RESULT IN ISSUES STARTING UP THE SPA POOL OR VOIDING WARRANTY.

Steps to Prepare for Filling:



1

Check the silver plaque on the side of spa pool cabinet (or see your invoice) to find your spa pool model's name, then read pages 28 - 35 for more specific info about your spa pool.



2

As the spa pool has been water tested during manufacture, excess water residue may have splashed out from within the pipes during transport and may require a quick wipe.



3

Open all of the spa pool jets by turning them anti-clockwise. This will allow water to flow through all pipes when filling and help avoid air-locks.



4

Check the external drain valve is in the 'flow-locked' position (retracted) with the inner twist cap screwed in tight.



FILL LEVEL WARNING



FAILURE TO KEEP SPA POOL FILLED TO MINIMUM REQUIRED LEVEL (AS SEEN BELOW) WILL RESULT IN DAMAGE TO COMPONENTS. MONITOR WATER LEVEL AND REFILL AFTER USE. SWITCH OFF SPA POOL IMMEDIATELY IF WATER LEVEL DROPS BELOW FILTER BOX.

MINIMUM WATER LEVEL

PLEASE FILL TO THIS LINE

See Minimum Water Level sticker for reference when filling your spa.

FILLING THE SPA POOL - GRATE SKIMMER

MONACO, SANTORINI, SAN MARINO



1 Lift off the whole skimmer lid.



2 Place your hose inside the skimmer box and begin filling (you may want to place the skimmer lid back on top to secure the hose in place).



3 Fill until the water line meets the minimum water level line as indicated by the sticker. Ensure water level does not drop below the skimmer.



FILLING THE SPA POOL - FLOATING WEIR SKIMMER

ZURICH



1 Remove the Weir Skimmer lid by turning it anticlockwise. It may require some pressure as it can be quite stiff.



2 Twist to align the fittings on either side of basket. The gap will need to line up with the lip holding the filter core in.



3 Remove the filter basket and core to reveal the inner weir skimmer box.



4 Place the hose inside the skimmer box.



5 Fill until the water line meets the minimum water level line as indicated by the sticker. Ensure water level does not drop below the skimmer.





ELECTRICAL WIRING / POWERING UP



ANY ELECTRICAL WIRING WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN.

How to Check The Model of Your Spa Pool:

The model name is imprinted on a silver plaque, usually located along the bottom edge of the spa pool cabinet. Check around the whole perimeter of the spa pool to locate.



Silver Plaque

Electrical Information Per Model

| MODEL | AMP | CABLE/PLUG | TECH INFO / WIRING |
|------------|------|---------------------------|--------------------|
| ZURICH | 15A* | 15A CABLE & PLUG INCLUDED | See Page 28 |
| MONACO | 15A* | 15A CABLE & PLUG INCLUDED | See Page 30 |
| SANTORINI | 15A* | 15A CABLE & PLUG INCLUDED | See Page 32 |
| SAN MARINO | 15A* | 15A CABLE & PLUG INCLUDED | See Page 34 |

Setting Up a 15A Model:



A 15A spa pool requires a 15A electrical socket protected by a residual current device (RCD) for the default setup.

By default these spa pools will NOT draw more than 15A at any one time. This is the default factory setup which load-sheds (disables) the heater when the pumps (jets) are turned on*.

A 15amp cable with 3-pin plug has been pre-wired to the spa pool's system controller and can be found coiled up inside the cabinet. To find out which cabinet to remove to access the cable, see your spa pool's corresponding tech info/wiring page (using the table on the previous page).

The cable can be exited through the cabinet wall (a cable grommet is supplied). A drill with a 60mm hole-saw attachment will provide the right size for the grommet.



Cable grommet after installation



***NOTE:** The default 15A setup is the most economical way to run the spa pool. If you wish to avoid load-shed, a 25A supply would need to be hardwired to your switchboard. A guide for your electrician to achieve this can be downloaded from our support page.

*15A is the pre-set default for these spa pool models which means the system will automatically load-shed (disable) the heater when the pumps (jets) are turned on. These 15A models can be wired with a 25A feed to disable load shed. See following page for details.



Information to disable load shed (changing 15A to 25A) can be downloaded from our support page: <http://alpinespas.co.nz/support/>





INSTALLING THE FILTER CARTRIDGES - FLOATING WEIR SKIMMER

ZURICH

The Filter is found inside the spa pool filter weir skimmer box (wrapped).



1
Grab the top lid with two hands, apply light downwards pressure and twist anti-clockwise to detach (can be quite stiff).



2
Lift off the lid to reveal the basket grill underneath.



3
Twist to align the fittings on either side of basket



4
Remove the filter core.



5
Remove the filter basket to reveal the inner weir skimmer box.



6
Place the filter into the base mount at the bottom of the filter box.



8
Replace the basket, filter core and lid in order, turning the lid clockwise to secure it.



AVOID DAMAGE TO SPA POOL & VOIDING WARRANTY - ONLY USE FILTER CARTRIDGES PURCHASED FROM ALPINE SPAS OR SPA SUPPLIES.



INSTALLING THE FILTER CARTRIDGES - GRATE SKIMMER

MONACO, SANTORINI, SAN MARINO

The Filter is found inside the spa pool filter grate skimmer box (wrapped)



1

Lift off the skimmer lid to reveal the inner skimmer box.



2

Locate the thread hole at the bottom of the skimmer box.



3

Place the filter into the base fitting, matching the male and female threads. (Filter colour may vary).



4

Gently screw the filter clockwise into place.



5

Replace the skimmer lid by pressing firmly down until you hear it clip in.



AVOID DAMAGE TO SPA POOL & VOIDING WARRANTY - ONLY USE FILTER CARTRIDGES PURCHASED FROM ALPINE SPAS OR SPA SUPPLIES.



SWITCHING ON & HEATING UP

Automatic Startup Procedure

Upon activating power, the spa pool's topside control panel should light up and the screen will display a series of specific sequences and numbers.

If the screen is blank when you power on, switch off/on again.

Priming

The spa pool will enter a 'priming mode' whenever it is first initiated or restarted. This is startup function which will run the circulation pump to clear any air in the plumbing for 20 seconds at a time.

The topside control panel will display "PRIMING" or similar to indicate the priming mode state.

Check that the circulation pump has engaged by visually sighting moving/rippling water inside spa pool. Water may flow from the waterfall (if open and equipped).

If the priming function fails, an error message (likely to be ER3-Water Prime) will display on the topside control panel - check the troubleshooting guide at the back of this manual for assistance.

HEAT-UP PROCESS

Automatic Heating

After priming has finished, the spa pool is automatically configured to begin heating to 38°C. The circulation pump will engage and the spa pool will begin filtering and heating up automatically.

Note: A default snooze timer is in place which disables functions (including heating) between 22:00 – 07:00. This will slow initial heat up time if not temporarily disabled. You must set the time (clock) on the topside control panel and then disable the snooze timer to allow for a fast first time heat-up. See pages 24-25.

Installing the Cover

Place your spa pool cover on top of the spa pool and lock it down by installing the clips with the screws.

Heat Up Time

Depending on environment, it can take up to 12-18 hours to heat the spa pool to the default 38°C (or longer if snooze timer was not temporarily disabled).



BALANCING & SANITISING THE WATER



FAILING TO BALANCE AND SANITISE YOUR SPA POOL CORRECTLY MAY RESULT IN CORROSION OR DAMAGE TO COMPONENTS, WHICH IS NOT COVERED UNDER WARRANTY.

Just like a car, your spa pool needs care and general maintenance to keep it looking good and running smoothly. An integral part of this maintenance is managing the water quality.

To ensure your spa pool is ready to be used at all times, the water needs to be sanitised and balanced to keep it clean and fresh.

You may have received a Water Care Startup Kit with your spa pool (please purchase one if you have not). Follow the 'Water Care Handbook' included in with the start up kit or download a copy from our support page link at the bottom of this page.

Follow the water care startup procedure found in the Water Care Handbook to setup the water for use.



Only use Alpine Spas or Spa Supplies approved products (including filter cartridges) in your spa pool. Use of unapproved products may result in your warranty becoming void, please contact us if in doubt.

Your first steps in treating the spa pool water will require the use of the topside control panel. See the quick reference guides on the following pages.



Download our 'Spa Pool Water Care Handbook' from our support page: <http://alpinespas.co.nz/support/>



TOPSIDE CONTROL PANEL QUICK GUIDES

OVERVIEW

The 'topside control panel' is the main control for your spa pool where you can set temperature and turn on pumps and lights. It's also where you will apply settings to control how the spa pool operates.

This quick guide provides an overview of the buttons and the actions they perform, however, the panel is capable of multiple functions not outlined in the diagram.

A full copy of the topside control panel user manual can be downloaded from our support page.

Note: If your topside control panel does not light up when powering on, switch the spa pool off and on again.



Download the full topside control panel user manual from our support page: <http://alpinespas.co.nz/support/>



SPANET SV-SMART

ZURICH, MONACO, SANTORINI, SAN MARINO

HEAT RANGE
10 - 41.0°C

SANITISE BUTTON

Press once to activate a 20min sanitisation and clean up cycle to refresh water quality after spa use. A second press will cancel the cycle if already running.

WATER TEMP/ TIME

A shortcut key designed to quickly toggle between actual water temp and time display modes.

OK BUTTON

Press to confirm and save setting adjustments or to enter setting adjustment menus.

UP & DOWN BUTTON

Short single presses toggle through the three display modes: Water Temperature (W.TMP) Set temperature (S.TMP) and clock (TIME).

Holding the button will force the controller to begin adjusting the set temperature and will increase or decrease the set temperature point.

Also used for adjusting settings.



AUTOMATIC LED

This LED will turn on whenever the filtration pump is in automatic mode.

SLEEP TIMER

This LED will turn on to indicate when the controller is in sleep mode.

O₃

This LED will turn on to indicate that the Ozone purifiers are operating.

HEATER

This LED will turn on when the heater or heat pump (if fitted) is operating.

LIGHT ON/OFF

Used to toggle Spa lights on/off. Once activated, color selection and mode can be chosen with the up/down and OK buttons.

PUMP BUTTONS

Used to toggle filtration pump and/or any additional jet pump(s) on/off (if fitted).



SPA POOL OPERATION

Post Heat-up

Once the default 38°C is reached the circulation pump will stop operating and will only re-engage if the spa pool loses temperature, a filter cycle has begun or the system is polling automatically to check temperature.

Understanding the Display (Topside Control Panel)

When the spa pool is first powered and priming has completed, the default display will show the current water temperature - this is referred to as WTMP (water temp). You can cycle between the below three display modes by using the 'UP' or 'DOWN' buttons:



It's recommended to leave the display on WTMP to see a clear difference between your set temperature and your current water temperature.

Changing the Temperature

Pressing or holding the 'UP' or 'DOWN' buttons will adjust the set temperature in the direction indicated on the button in increments of 0.2°C. When the display stops flashing, the spa pool will begin heating to the new set temperature (the spa pool cannot cool the water). The spa pool is already pre-set to 38°C.





Testing the Components (Jet Pumps)

Turn each individual jet piece inside the spa pool anti-clockwise to open the flow. Then test the jet pump(s) via the topside control panel by pressing:



PUMP

The 'PUMP' button/s will activate the jet pump/s and high pressured water will flow from the jet pieces. Turn the diversion valves to switch pressure between seats.

Setting the Time & Date

Be sure to set the correct date and time on the topside control panel. Vital functions such as filtration, sanitisation cycles and power saving settings are dependent on this being accurate.

Navigate to the TIME display by following the instructions on the previous page ('Understanding the Display') then follow these steps to set the time:



Spa Pool Behavior - Running Modes

Your spa pool is pre-set to 'NORM' (normal) running mode by default which is the standard operating mode and it's recommend to leave this unchanged as it is the most economical mode for regular use. Normal mode means that the spa pool will always aim to keep the water temperature at the users set temperature (default 38°C) so it is ready to use whenever you are.

Other modes are available to use, which may be useful at different times of the year or if you cannot use the spa pool for a set period of time:

| Name | Mode | Function |
|------|--------|---|
| NORM | Normal | Normal operation for demand heating and filtration |
| AWAY | Away | Demand heating is DISABLED. Filtration is fixed at 1 hour per day (the keypad will scroll "AWAY MODE" every 60 secs) |
| WEEK | Week | Monday to Thursday: Demand heating is DISABLED and filtration fixed at 1 hour per day. Friday to Sunday: Normal Operation |

Changing the Running Mode

From any display mode:





Filter Cycles

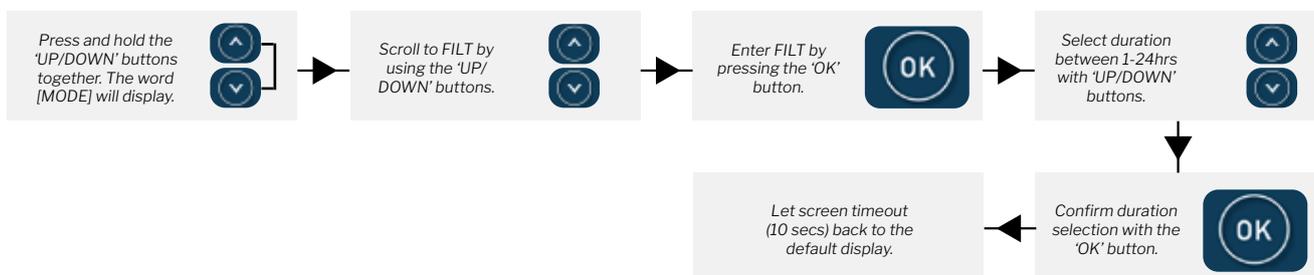
A filter cycle is a period in which the circulation pump is run for a user programmed length of time. This allows for a dedicated period of water sanitising and clean up. Heavier spa pool usage may require longer filter cycle times. At the start of each filter cycle, the main jet pump may run briefly to purge the plumbing.

Filter cycle operation consists of two separate programmable parameters:

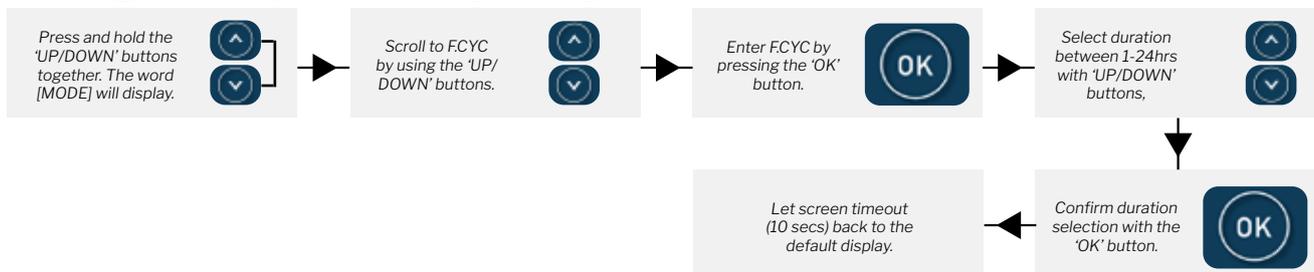
- Duration of filtration per day [FILT] (hours per day, e.g. 4 hours total per day)
- Filter cycle blocks [F.CYC] (time between start of each filter cycle, e.g. 4 hours)

The default settings are: 4 hours of filtration per day over 4 individual 1-hour filter blocks (e.g. every 4 hours, an hour long filter cycle will engage.)

Setting Filter Cycle Hours of Filtration [FILT]



Setting Filter Cycle Blocks [F.CYC]:



Sleep Timers [SNZE]

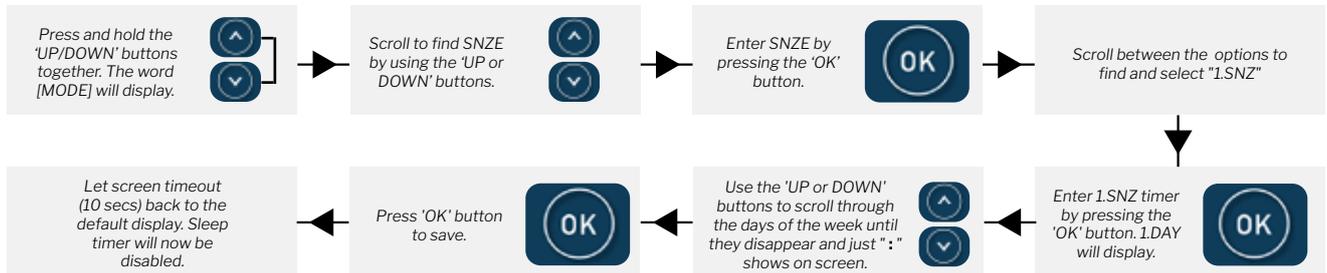
Sleep timers are a very handy feature which enables the user to stop all spa pool activity during certain times of day or night. While the controller is in sleep mode NO automatic heating or filtration maintenance will occur, however the spa pool can still be operated by manual use without the need to adjust sleep time settings.

There are two individual sleep timers that can be set, each of which can operate on one or more specified weekdays. This enables the user to program different sleep times for different days (i.e. weekdays vs weekends), as well as customizing the settings on a particular day/time where the user may want the spa pool silenced.

Default Sleep Timer Settings: Sleep Timer 1 (Sat – Fri; Sleep period 22:00 – 07:00).

Disabling the Default Sleep Timer [SNZE]

Follow these steps if you wish to quickly disable the default sleep timer:

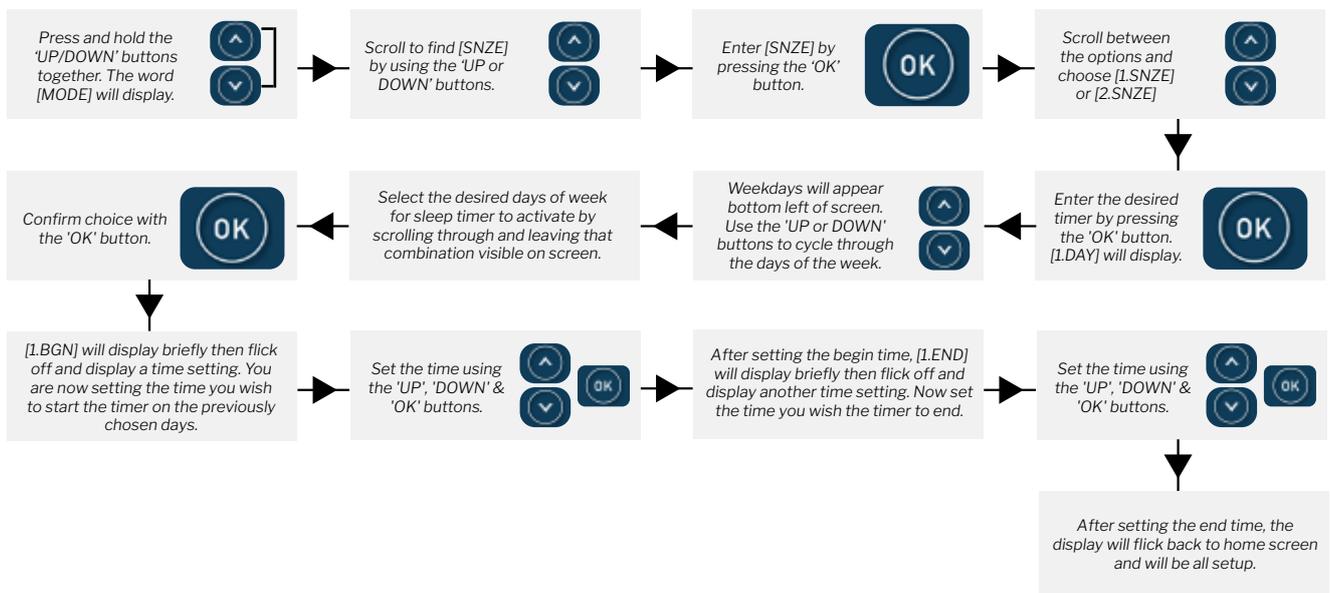


Setting & Adjusting Sleep Timers [SNZE]

Two individual sleep timers can be set, each of which can operate on one or more specified weekdays. These appear in the form of [1.SNZE] and [2.SNZE] in the settings. Each sleep time setting consists of a week day setting, start time and stop time (refer table below).

| Item | Description | Notes |
|-------|--|--|
| #.DAY | Selected day of operation | Sat / Sun / Mon / Tue / Wed / Thu / Fri Sat-Sun / Mon-Fri / Sat-Fri / : Default = Sat-Fri (Note : = disabled) |
| #.BGN | Begin Time Sleep time period begins | Adjustable: 00:00 - 23:59 Default = 22:00 (10PM) |
| #.END | End Time Sleep time period ends | Adjustable: 00:00 - 23:59 Default = 07:00 (7AM) |

The following instructions are an example of how to adjust one of the sleep timers:



A full SpaNet control panel manual with advanced functions can be downloaded from our support page: <http://alpinespas.co.nz/support/>



Power Save [P.SAV]

Power utilities in some regions offer household power meters that can track power usage during different times of the day. This allows the utilities to offer greatly reduced power pricing during off peak power times.

The Power Save (P.SAV) function allows the user to program in the peak power period so the spa control knows not to perform filtration and/or heating during those expensive hours. Instead the controller will take advantage of the competitively priced off peak hours, and run the filtration and/or heating during the off peak hours.

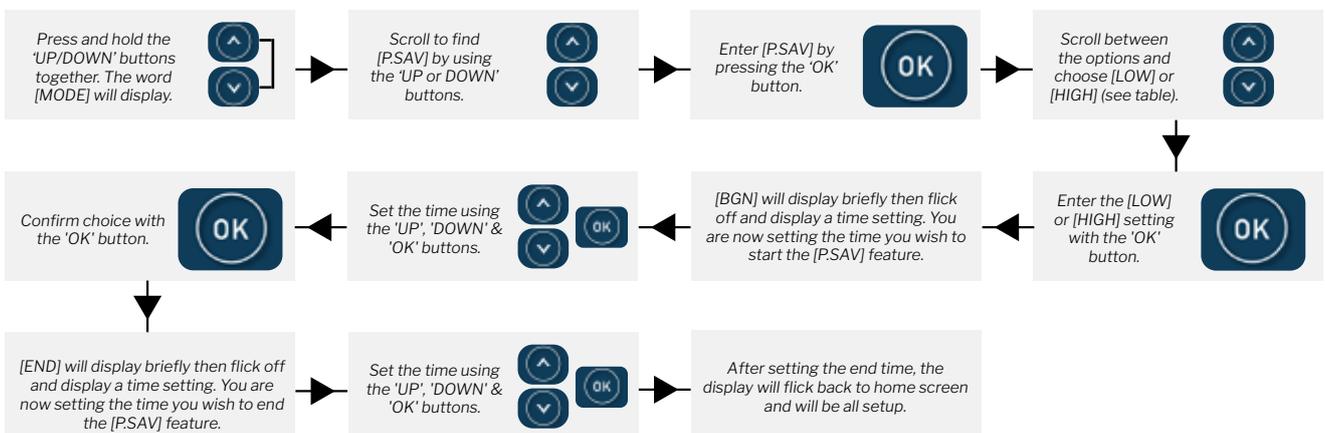
NOTE: If P.SAV function is to be used the spa user MUST consider any sleep timers [SNZE] and adjust them accordingly. Sleep timer settings will OVERRIDE any P.SAV settings. Running P.SAV function while sleep timer is set will likely result in cold water temperatures due to insufficient heat time available.

Setting & Adjusting Power Save [P.SAV]

The power save setting consists of a choice of mode, peak power period start time and peak power period end time (refer table below).

| Item | Description | Notes |
|-------|---|---|
| P.SAV | Power Save Mode Functions disabled during peak power periods | OFF = P.SAV disabled (default) LOW = Filtration disabled HIGH = Filtration & Heating disabled |
| BGN | Begin Time Peak power period begins | Adjustable: 00:00 - 23:59 Default = 14:00 (2PM) |
| END | End Time Peak power period ends | Adjustable: 00:00 - 23:59 Default = 20:00 (8PM) |

Reminder that the hours you are programming into the system with the P.SAV feature is for when the heating and/or filtration will NOT occur.





Sanitise/Clean-up Cycle

The sanitise button activates a 20 minute sanitisation cycle that runs the filtration pump and ozone / U.V to filter the spa pool water to restore and refresh water quality. At the start and end of the cycle, the controller will sequentially (one at a time) run a variety of pumps for one minute each to purge the plumbing and clear any unfiltered water trapped in those lines.



Key-lock Function

The keypad buttons can be locked to prevent accidental key presses or to limit access to certain controller functions. This feature is particularly helpful when spa pool covers are used or where children are present.

There are two types of key-locks available:

Full Lock Mode - locks all buttons so all presses are ineffective until unlocked. To activate full lock, press and hold together:



Partial Lock Mode - only 'PUMPS', 'LIGHT' and 'SANITISE' buttons allowed. To activate partial lock, press and hold together:



NOTE: 'Pump A' is the only visible jet button on the touch panel. 'Pump B' is a "ghost button" which is located to the right of Pump A which is activated by pressing down on the blank spot.

Automatic Daily Sanitise Cycle Run Time

The system will activate a 10 minute daily sanitisation cycle at 9am each day. Each pump is operated to purge pipe work whilst operating the filtration pump.



A full SpaNet control panel manual with advanced functions can be downloaded from our support page: <http://alpinespas.co.nz/support/>



ZURICH SPA POOL OVERVIEW

Components:

| | |
|-----------------------|---|
| Spa Pool Controller | SpaNet SV-SMART |
| Topside Control Panel | SpaNet SV-SMART |
| Heater Element | 3KW SpaNet® Heater |
| Pumps | 1x SpaNET Circulation Pump + 1x SpaNET Jet Massage Pump (3HP) |
| Skimmer/Filter Type | Floating Weir |
| Sanitisers | Ozone |
| Electrical Info | 15A 230 - 240V AC 50hz IPX5 |
| Cable | 15amp Cable Pre-Connected |

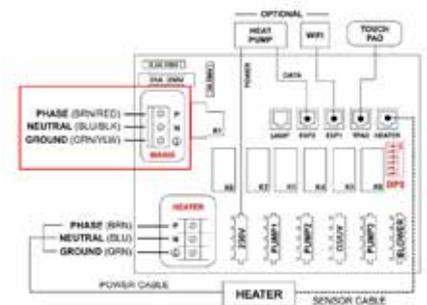
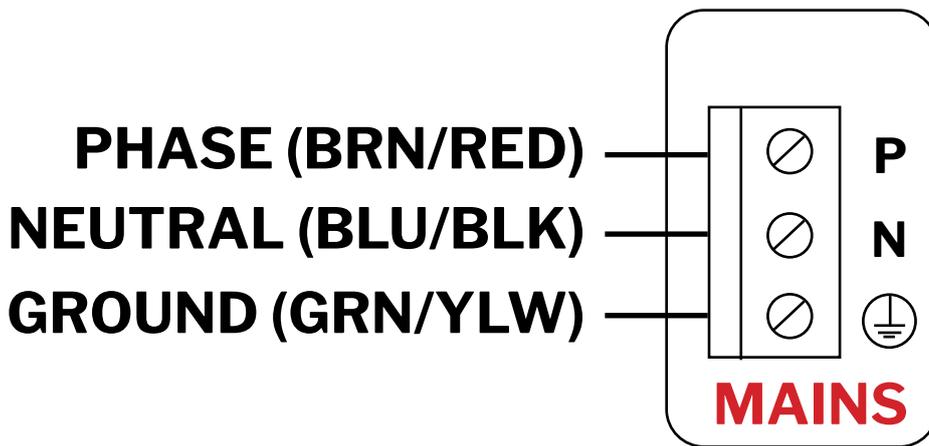
Cable & Wiring:

This 15amp spa pool includes a 4.5metre 15amp power cable that has been pre-connected and installed onto the system controller.



BELOW DIAGRAM IS FOR SINGLE PHASE 15A AND IS ONLY REQUIRED IF DISCONNECTING & RECONNECTING CABLE. DIP SWITCHES DO NOT NEED ALTERING.

DO NOT POWER THE SPA POOL BEFORE IT HAS BEEN FILLED



To setup for high amp (25A, no load shed*) see page 15 for information.

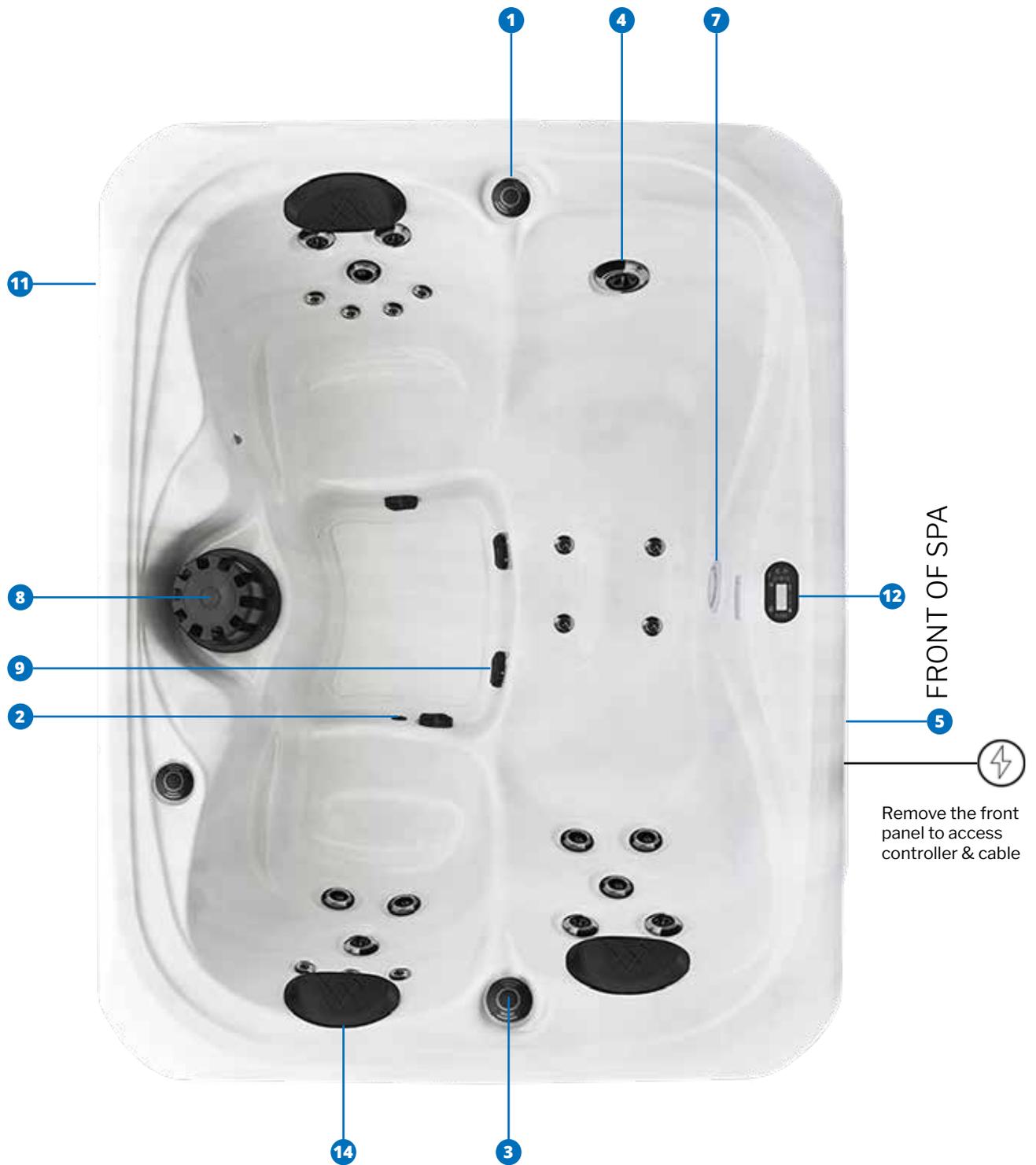
Locating the Controller & Cable

Remove the cabinet panels from the side of the spa pool that houses the system controller (see following page for exact location). Inside you will find the cable coiled up.





Identify labeled parts on pages 36-38.





MONACO SPA POOL OVERVIEW

Components:

| | |
|-----------------------|---|
| Spa Pool Controller | SpaNet SV-SMART |
| Topside Control Panel | SpaNet SV-SMART |
| Heater Element | 3KW SpaNet® Heater |
| Pumps | Two-Speed SpaNET Pump (3HP) (Circulation & Jet Massage) |
| Skimmer/Filter Type | Grate Skimmer |
| Sanitisers | Ozone |
| Electrical Info | 15A 230 - 240V AC 50hz IPX5 |
| Cable | 15amp Cable Pre-Connected |

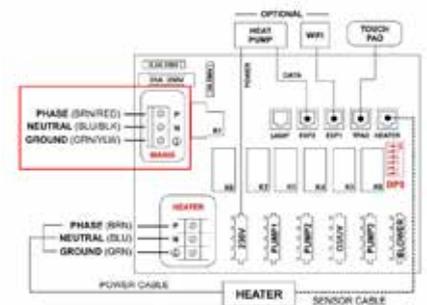
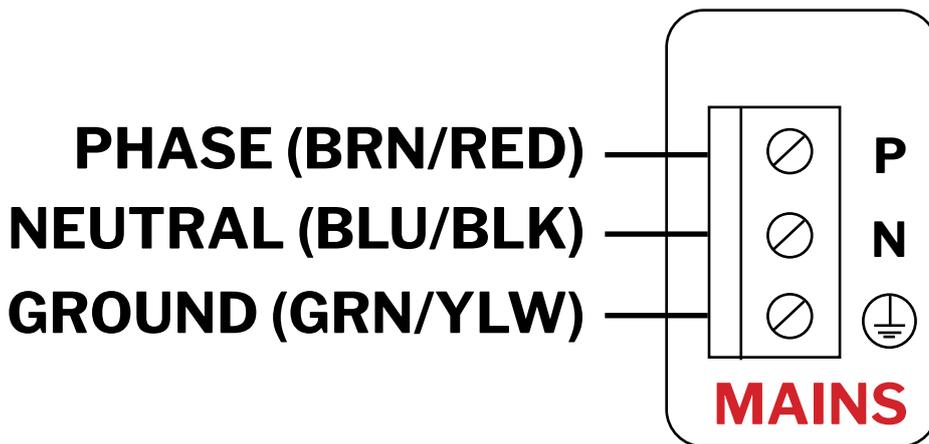
Cable & Wiring:

This 15amp spa pool includes a 4.5metre 15amp power cable that has been pre-connected and installed onto the system controller.



BELOW DIAGRAM IS FOR SINGLE PHASE 15A AND IS ONLY REQUIRED IF DISCONNECTING & RECONNECTING CABLE. DIP SWITCHES DO NOT NEED ALTERING.

DO NOT POWER THE SPA POOL BEFORE IT HAS BEEN FILLED



To setup for high amp (25A, no load shed*) see page 15 for information.

Locating the Controller & Cable

Remove the cabinet panels from the side of the spa pool that houses the system controller (see following page for exact location). Inside you will find the cable coiled up.





Identify labeled parts on pages 36-38.





SANTORINI SPA POOL OVERVIEW

Components:

| | |
|-----------------------|---|
| Spa Pool Controller | SpaNet SV-SMART |
| Topside Control Panel | SpaNet SV-SMART |
| Heater Element | 3KW SpaNet® Heater |
| Pumps | 1x SpaNET Circulation Pump + 1x SpaNET Jet Massage Pump (3HP) |
| Skimmer/Filter Type | Grate Skimmer |
| Sanitisers | Ozone |
| Electrical Info | 15A 230 - 240V AC 50hz IPX5 |
| Cable | 15amp Cable Pre-Connected |

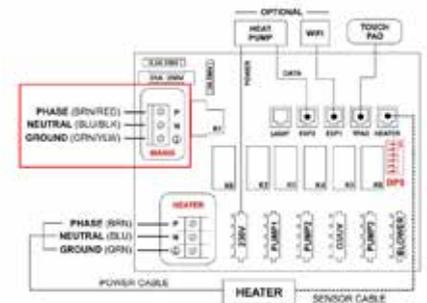
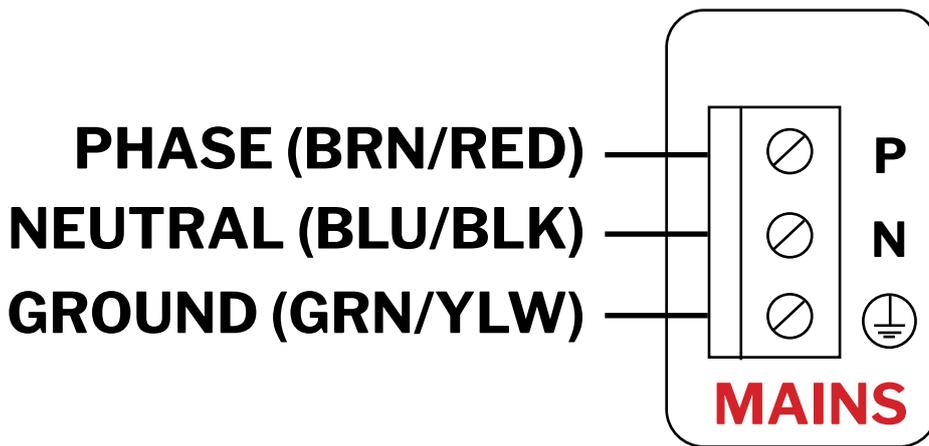
Cable & Wiring:

This 15amp spa pool includes a 4.5metre 15amp power cable that has been pre-connected and installed onto the system controller.



BELOW DIAGRAM IS FOR SINGLE PHASE 15A AND IS ONLY REQUIRED IF DISCONNECTING & RECONNECTING CABLE. DIP SWITCHES DO NOT NEED ALTERING.

DO NOT POWER THE SPA POOL BEFORE IT HAS BEEN FILLED



To setup for high amp (25A, no load shed*) see page 15 for information.

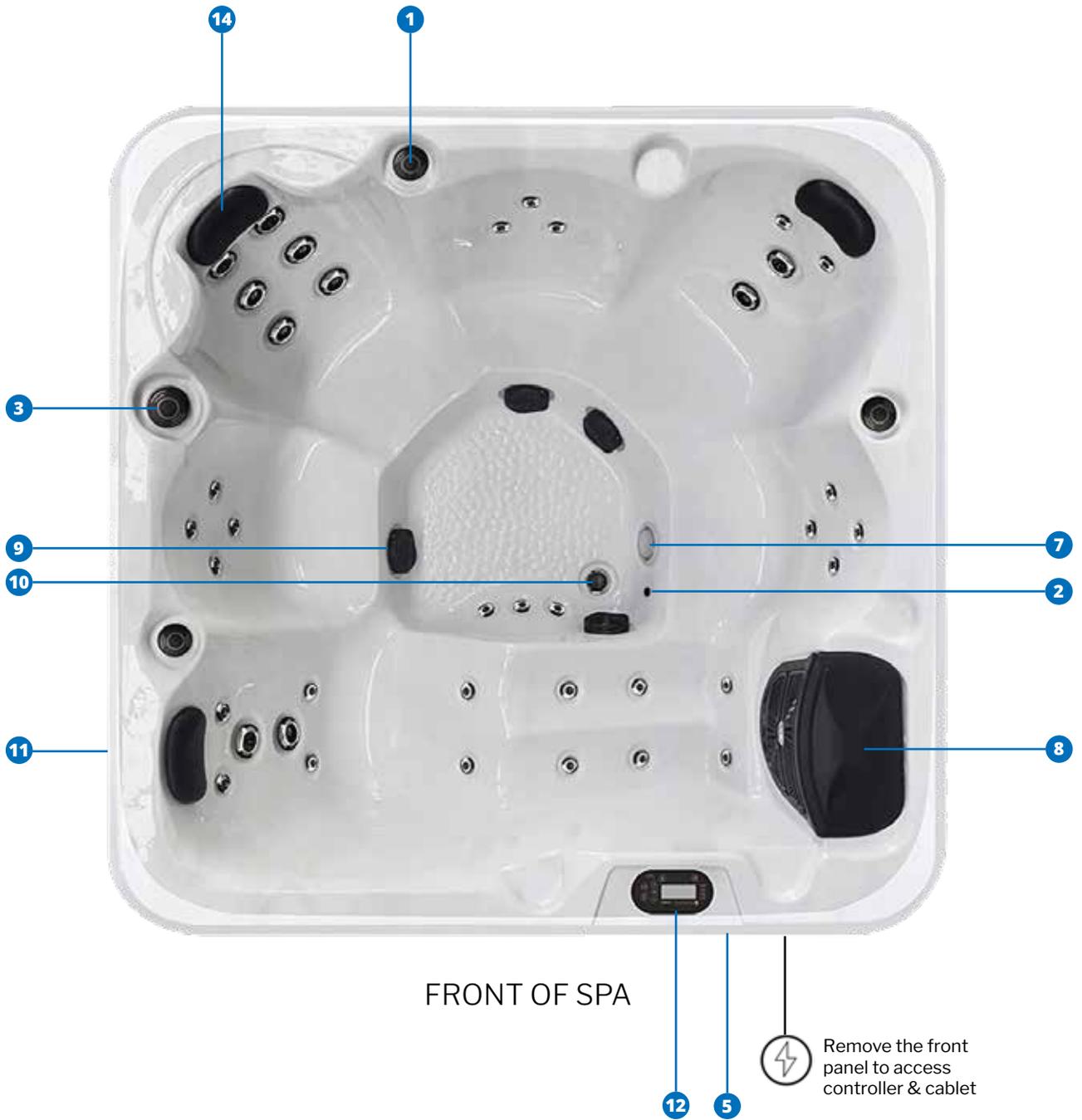
Locating the Controller & Cable

Remove the cabinet panels from the side of the spa pool that houses the system controller (see following page for exact location). Inside you will find the cable coiled up.





Identify labeled parts on pages 36-38.





SAN MARINO SPA POOL OVERVIEW

Components:

| | |
|-----------------------|---|
| Spa Pool Controller | SpaNet SV-SMART |
| Topside Control Panel | SpaNet SV-SMART |
| Heater Element | 3KW SpaNet® Heater |
| Pumps | 1x SpaNET Circulation Pump + 1x SpaNET Jet Massage Pump (3HP) |
| Skimmer/Filter Type | Grate Skimmer |
| Sanitisers | Ozone |
| Electrical Info | 15A 230 - 240V AC 50hz IPX5 |
| Cable | 15amp Cable Pre-Connected |

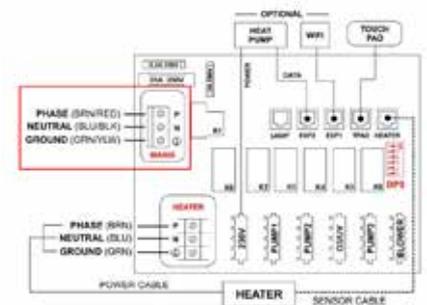
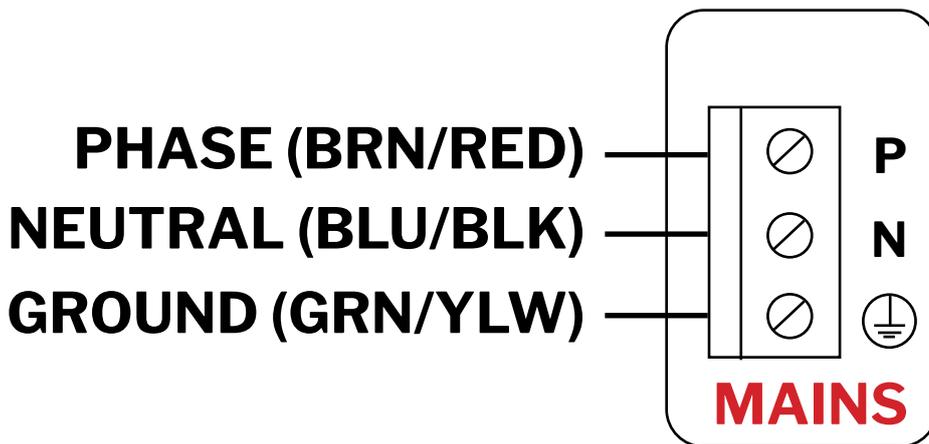
Cable & Wiring:

This 15amp spa pool includes a 4.5metre 15amp power cable that has been pre-connected and installed onto the system controller.



BELOW DIAGRAM IS FOR SINGLE PHASE 15A AND IS ONLY REQUIRED IF DISCONNECTING & RECONNECTING CABLE. DIP SWITCHES DO NOT NEED ALTERING.

DO NOT POWER THE SPA POOL BEFORE IT HAS BEEN FILLED



To setup for high amp (25A, no load shed*) see page 15 for information.

Locating the Controller & Cable

Remove the cabinet panels from the side of the spa pool that houses the system controller (see following page for exact location). Inside you will find the cable coiled up.





Identify labeled parts on pages 36-38.





SPA POOL PARTS LABELED



1 AIR VENTURI

Turning this dial injects air into the jet-stream, boosting the pressure of the jets in a particular set of seats (usually the ones closest to the dial). Turn dial off when finished with the jets to avoid a continuous flow of cold air entering the water when you are not soaking.



2 OZONE OUTLET

During filtration and heating, ozone (in the form of small bubbles) will emit from this outlet intermittently into the body of the spa.



3 PRIMARY DIVERTER

This dial gives you the ability to force maximum jet pressure into a certain group of seats. Turn it fully left or fully right to transfer water pressure between different seats in the spa pool. Position it halfway (50/50) to distribute an even pressure to all seats at once.



4 MASSAGE JETS

Stainless Steel bearing-less jets come in a variety of sizes and configurations in your spa pool to deliver a range of different massage pressures to those persons soaking. Activate by turning on the jet pump via the topside control panel.



5 SYSTEM CONTROLLER

The heart of the spa pool. A computer system and heater makes up the controller as a whole and controls all components in the spa pool including the topside control panel.



6 WATERFALL

The waterfall produces a steady stream of water into the spa. This can be turned on and off using the waterfall control dial. Select models.



7 LED FLOODLIGHT

A large LED floodlight sits below the waterline, tinting the water to the selected LED colour.



8 SKIMMER BOX

The skimmer box houses your filter which water is drawn through when the circulation pump is engaged. (Floating weir skimmer pictured, see pages 16-17 for model specific skimmer box examples).



9 PUMP INTAKES

Pump intakes sit in the foot-well of the spa pool. Water is sucked through these by the pumps and then expelled back out the jets.



10 INTERNAL DRAIN

The spa pool water drains out this port when the external drain valve is released.



11 EXTERNAL DRAIN VALVE

The external drain valve sits on a cabinet panel on one side of the spa pool. Attach a hose and twist and turn to release the flow of water when draining. Using the drain valve is explained on page 43.



12 TOPSIDE CONTROL PANEL

This is the button pad and temperature display panel located on the top of the spa pool into which various commands, control sequences and options for operating the spa pool can be entered. (SV-SMART panel pictured)



SPA POOL PARTS LABELED - CONTINUED



14 HEADREST

Select hydrotherapy seats have headrests as a comfort option to add to the relaxation experience.



15 CABINET PANEL

Multiple cabinet panels surround the outer edge of your spa pool which protect the components inside. Panels are held on to the frame of the spa pool with vertical slats which sit at each end of the cabinet side.



16 VERTICAL SLAT

The multiple vertical slats hold the cabinet panels to the framing of the spa pool. To remove the panels, undo the screws holding the slats.



17 WATERFALL CONTROL

Controls the flow of water from the waterfall. Select models only.





PRESSURE DIVERTER & AIR VENTURI VALVES

Pressure Diverter

Found on select models, turning this dial left/right will switch the jet pressure from one side of the spa pool to the other. For even jet pressure across all seats, leave the dial adjusted to the middle position (50/50).



Air Venturi Valve

Turning these dials on will inject air flow into selected jets to increase their pressure. You will notice the water stream becomes aerated when functioning. The seat located closest to the dial is usually the one to receive the boost. We recommend to turn off these valves when you exit the pool.



WATERFALL CONTROL (SELECT MODELS)

Waterfall Behaviour

As long as the dial is turned on, water will flow from the waterfall or fountains when the spa pool is heating and/or filtering.



Turning ON/OFF

Turn the waterfall dial anti-clockwise to open the flow of water, clockwise to shut it off. Be EXTREMELY careful not to over-twist and push the dial past the point of natural resistance.





LED LIGHTS

Activating the Light

Activate the LED lights by pressing the 'LIGHT' button found on the top-side control panel. Once pressed you can change the modes by using the 'UP', 'DOWN' and 'OK' buttons to select desired option.



LIGHT

UP

DOWN

OK

JETS

Activating the Jets

To turn on a jet pump - press the jet button/s on the top-side control panel.



Jets

Adjusting Jet Water Flow

Each individual jet piece can have its water pressure adjusted by opening and closing the flow. For max pressure, simply turn the jet face gently in an anti-clockwise direction until you feel it stop. To reduce/stop the flow, turn in a clockwise direction. When closed, a small amount of water trickling through the jet piece is normal (this is protection for the pump in case all jets pieces are shut off).



Twist jet anti-clockwise to open flow.



Twist jet clockwise to close flow.



Removing the Jets

You will need to remove the jet pieces to clean behind them (It's easier to remove a jet piece when the spa pool is empty, however it is possible to do when filled). Ensure the jet pump is off before attempting to remove any jets.



Grip the jet piece tight and turn in an anti-clockwise direction to the fully open position.



When you feel the natural stopping point, apply slightly more turning pressure while gently pulling towards you.

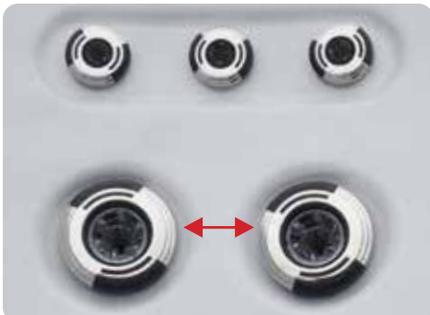


The jet piece should pop out and be able to be removed, exposing the jet body.

To replace the jet piece, reverse the steps above and turn in a clock-wise direction.

Interchanging the Jets

Jets of the same size mold can be swapped around to build custom seats. Choose the desired jet pieces to interchange and follow the removal and replacement steps above.



Jet pieces of the same size can be interchanged



OPENING THE PANELS



OPENING THE SPA POOL PANELS IS A WARRANTY REQUIREMENT.

Your spa pool contains high performance parts that are regularly put under pressure and exposed to various water conditions controlled by the user. As part of your warranty requirements, your spa pool requires periodic checking of the components inside, just like how a car requires the bonnet opened to check oil.

The inspection is rather simple and should take no longer than 10 minutes.

See page 50 to understand what to check for.



Each side of the spa pool consists a single cabinet panel. Holding each panel onto the frame of the spa pool are two vertical slats at each end with 3 screws per piece, with screw caps over each screw (circled on the diagram above).

To remove the panels:

1. Start by removing the plastic screw caps on the vertical slat with a flat head screw driver or a flat blade.
2. Next unscrew the vertical slats from each side.
3. The panel should come away from the cabinet, if not, push down and/or pull towards you.
4. Reverse the steps to replace the panels.



DRAINING THE SPA POOL

Operating the Drain Valve

When it's time to drain the spa pool you can use the simple external drain valve mechanism located on the bottom edge of your spa pool. Water will not flow out of the drain as long as the cap is on tight and pressed in as per the 'flow locked position' - see photo. To use the drain valve, follow the steps below.



Flow locked
(Retracted Position with cap screwed on tight)

Draining Water

Your spa pool needs to be drained and refilled every 3-4 months depending on usage. This is outlined in more detail in the 'Spa Pool Water Care Handbook'.



TURN OFF POWER TO THE SPA POOL BEFORE DRAINING THE WATER!



1

Start with the drain in the 'Flow locked' position (retracted).



2

Extend the inner drain valve by pulling on the drain cap all the way out as far as shown in next image.



3

Unthread the drain cap and remove it.



4

Screw on a male-end hose attachment.



5

Attach your hose and run the end to a drain location.



6

Push the drain valve slowly in towards the spa to the 'half way' point. Check that water flows from the hose and adjust (push in or pull out slightly) if necessary.



CLEANING THE FILTER

We recommend having a second filter on hand to rotate while cleaning.

Quick Clean (once per week)

Once a week, remove your filter from the spa pool and wash them down with a hose. Maximize the water pressure of your hose and spray the cartridge thoroughly (put your thumb over the tip of the hose). Your aim is to remove any build up of filtered material stuck between the folds of the filter paper. Do not leave the filter out of spa pool for prolonged periods of time.

Soak Filter (once per month)

Once a month, remove your filter from the spa pool and place them in a bucket of warm water. Add filter cleaning solution to the bucket (available from Alpine Spas) and leave to soak overnight. Once soaked, remove from bucket and wash thoroughly with a hose to remove loosened debris.

Replacing Filter (as required)

A filter cartridge should last up to 6-12 months when cleaned as per this guide. A discoloured filter that becomes difficult to clean are signs that a new one may be due. Only Alpine Spas approved cartridges are to be used in the spa pool.

CLEANING THE ACRYLIC SHELL

General Cleaning (as required)

The acrylic surface is non-porous and most marks or dirt should come off quickly and easily. We recommend using a microfibre cloth to wipe the shell. For more resistant marks you can dissolve a small amount of baking soda into the cloth and apply it to the targeted area.

From time to time a ring (sometimes referred to as scum ring or tide line) may appear just above the waters edge. A wipe with a microfibre cloth will take care of this, but good water balance will generally prevent this from occurring in the first place. Check your water care handbook for advice.

Cleaning When Draining (every 3-4 months)

When doing your 3-4 monthly drain and refill, it's a good chance to fully wipe down the acrylic shell. Use some baking soda or a low-strength all purpose cleaner and wipe everywhere with a microfibre cloth, including around the jets (you may want to pop them out to get in behind them).

Hose down the spa pool interior once finished and drain or bucket out the water at the bottom. You want to avoid refilling with the leftover remains of your cleaning solution as this may foam or cause trouble when trying to balance the water upon refilling.



CLEANING & MAINTAINING THE CABINET

The synthetic cabinet (composite wood) is virtually maintenance free, however you should hose it down once a month or as required to remove any cobwebs or dirt accumulating. A mild soap and microfibre cloth could be used to assist if required for stubborn marks, as long as it is thoroughly washed off.

CARING FOR THE SPA POOL COVER

The cover consists of a shrink-wrapped polystyrene block wrapped in a marine-grade UV treated outdoor vinyl. Although it's tough and made to withstand the elements, the cover is continually exposed to harsh sunlight and weather conditions plus whatever else is thrown at it during day-to-day usage. To maximize its life-span, please follow these guidelines:

General Cleaning (as required)

Keep your cover as clean as possible, and remove any debris that may build up on top of the vinyl. Wipe with a microfibre cloth or large towel and hose down if required. Wipe the underside of the cover regularly.

Dedicated Clean (once per month)

Once a month, completely remove the spa pool cover from the spa pool (you may want to cover the spa pool with a tarp or similar protector during this process). Thoroughly clean both the top vinyl and underside of the cover using warm water and mild dish-washing detergent (do not use harsh chemicals). Hose off and dry the cover with a towel. Ensure you clean the locks and straps so they are free of any mold or cobwebs. Unzip a portion of the zip and in a safe place, stand your cover up to form an 'A-frame' and leave to dry like this for 1-2 hours before placing back on top of your spa pool.

Protecting the Vinyl (every 3-4 months)

Every 3-4 months or each time you go to drain your spa pool, it's a good chance to apply a vinyl protector to the topside of the cover. A spray on solution such as '303 Aerospace Protectant' with UV protecting properties or similar would be sufficient. Dry cover and remove any dirt before applying. A light coat will bring the colour back to life and help your cover stand the test of time.

Note: Consider purchasing a cover lifter if you haven't already. These units increase the life span of the cover by keeping it suspended off the ground and tucking it neatly behind the spa pool when it is in use.



CLEANING THE JETS

Turn the spa off temporarily. Remove the jet pieces (can be done while filled) from the body (see page 41) and clean them in a bucket of water. Use a brush if required to remove any build up of calcium or grime. Clean inside the jet body if required. Inspect the plastic backing - any sign of corrosion (flaking or peeling) please contact Alpine Spas as this is an indication of poor water quality and low/high levels of pH or alkalinity. Rinse jets thoroughly in fresh water before reinstalling.

PERFORMING A PIPE CLEAN

Consistent water balancing and general filter cleaning will keep your water clean and clear and protect your spa pool components. But unfortunately it's almost impossible to avoid bacteria and organic material making a home inside the spa pool plumbing/pipes.

Bacteria has a way of protecting itself by forming as 'bio-film' which sticks to the inside of the pipes. Although this rarely causes issues, excessive build up can make water balancing more difficult and you may find bits of bio-film floating in the spa pool if some of it manages to detach from the interior pipe wall.

To destroy bio-film or any other nasties hidden in the pipes, a 'Pipe Clean' should be performed every 6 months. Keep in mind that the spa pool's water is to be drained after this process, so you may just want to incorporate it into your 3 monthly draining schedule. 'Pipe Cleaner' can be purchased from Spa Supplies.

Steps to perform a 'Pipe Clean'.

1. Clean Filter

This process will rely heavily on the filter to collect the grime ejected from within the pipes. A freshly cleaned filter should be installed before performing a 'Pipe Clean'.

2. Open All Jets

Ensure all jets and valves around the spa pool are open (turn anti-clockwise).

3. Add 'Pipe Cleaner' & Run Jets

Follow directions on the label and add the solution to the water with all pumps turned on. Be prepared for A LOT of foam to build up. You may notice the foam becomes brown, green or yellow, this is a good sign of bio-film removal. Bucket out the foam where possible to relieve stress on the filter. Engage pumps again when they time-out until the foam stops accumulating in excessive amounts or is at least mostly non-coloured, while cleaning out the filter in-between.



4. Circulate Water

Place the cover back on the spa pool and leave it to circulate for a few hours, then remove the filter and wash thoroughly. Wipe the acrylic edge if required and drain the spa pool as per the drain and refill process.

5. Refill and Shock

After refilling the spa pool, remove the cover and shock dose the water with Spa Chlor or O2 Shock to kill any existing bacteria present in the water. Aerate the spa using the jets.

LEAVING THE SPA POOL SHORT TERM

If you are heading away for a holiday or just know you won't be using your spa pool for a short period of time (less than a month), it's a good idea to take some steps to protect your spa pool and save you the heating costs!

1. Clean Filter

Your spa pool operates best with a clean filter. Remove and wash thoroughly as per filter cleaning instructions on page 44.

2. Remove Headrests

Unclip the headrests and dry off before putting them in a safe place. When the cover stays on the spa pool for an extended period of time, ozone gas can build up on top of the water and eat away at the headrest material.

3. Shock Dose

Shock dose the water using a capful of 'Spa Chlor' and ensure the cover is left off for 1 hour while running the pumps before replacing it.

4. Turn Down Temperature

Turn the temperature down to the low 20's, or place in away mode and make sure the spa pool is set to operate its filter cycles automatically (this is the default).

5. Secure Cover

Place the spa pool cover on securely and lock with the clips.

By following those steps your spa pool will keep filtering and will not heat excessively while you are away. You will return to a healthy, clean spa pool. If possible, while you are away, have a neighbour or friend open the spa pool cover once every a week for a few minutes to air it out and shock dose the water if required.



TURNING OFF LONG TERM

There may come a time when you need to leave the spa pool for a period longer than a month and want to shut the spa pool off. Follow these steps to safely prepare the spa pool for hibernation:

1. See Previous Steps

Perform steps 1 and 2 from 'Leaving the Spa Pool Short Term' before moving on.

2. Turn OFF Spa Pool

Completely turn off the spa pool at your isolation switch or mains board.

3. Drain the Water

Drain the water out of the spa pool via the external drain valve.

4. Drain pipes via Barrel Unions

Open up the cabinets surrounding the spa pool and locate the barrel unions at the controller unit / heater and the pumps. Loosen (strop wrench may be required) the barrel unions either side of the component to drain excess water from the surrounding pipes. Put down a towel if required, to soak up water. Tighten the unions back up once finished.

5. Blowout Pipes (recommended if switching off for 6+ months)

Climb inside the spa pool with a 'Wet-Vac'. Remove the jet pieces and place the vacuum nozzle into the jet body to suck water directly out of the pipe. Not every jet piece needs to be attended to, aim for 3-4 per seat. Other pipes to suck water from are the internal drain valve and the circulation jet mounted on the side of the spa pool acrylic (usually near the topside control panel).

6. Wipe Down Spa Pool

Remove any excess build up of water from inside the spa pool and wipe the acrylic shell down completely with a microfibre cloth and mild all-purpose anti-bacterial spray.

7. Secure Cover

Place the spa pool cover on securely and lock with clips. Cover entire spa pool with a tarp or 'spa pool winter cover' for the best long-term protection.



CLEANING & MAINTENANCE SCHEDULE

Follow this easy cleaning & maintenance schedule to care for your Spa Pool and help protect your warranty.

WEEKLY

- Test and balance the water
- Clean filter (quick clean process)
- Shock dose (if required e.g. water is not clear)
- Wipe down cover, cabinet and acrylic as required.

MONTHLY

- Clean filter (soak process)
- Clean cover (dedicated clean process)
- Drain and refill process (pipe clean if required)
- Rinse headrests in fresh water

EVERY 3-4 MONTHS

- Remove, inspect and clean jet pieces
- Wipe down acrylic shell while water is drained
- Protect cover (apply vinyl protectant)
- Open panels. Inspect components.
- Inspect pumps and check barrel unions



PUMP MAINTENANCE

You must check the pumps inside your spa pool on a regular basis to ensure they are operating as efficiently as possible and there is no leaking or corrosion occurring. Issues with pumps, particularly seal corrosion, is generally caused by incorrect pH and alkalinity levels or excessive dosage of sanitisers such as chlorine or bromine.

Maintaining/balancing the spa pool water according to well established methods and following the guide provided will help to avoid such issues.



ISSUES OUTLINED ABOVE ARE NOT COVERED BY WARRANTY.

How to check your pump(s)

We recommend checking the pump(s) every 3-4 months which should become part of your drain and refill process. The number of pumps will vary per spa pool, so check your spa pool overview page.

Open up the cabinets around the spa pool to find the pump(s). Any signs of leaking, rust, calcium build-up or yellow/white powder type substance usually between the plastic wet end and metal parts of the pump may indicate an issue and service may be required. Please photograph and contact Alpine Spas.

BARREL UNION MAINTENANCE

Barrel unions are the connection piece used to join the plumbing to the pumps and the heater. Being able to easily remove the pumps or heater is important for servicing.

Because barrel unions are a thread fitting, they may loosen slowly over time due to factors such as vibration (from the pump) and need to be checked periodically. Loose barrel unions will promote leaks.

How to check your barrel unions.

Open up the cabinets around the spa pool. Find the pump(s) and the system controller (this unit houses the heater) and you will see the white barrel unions which sit at either end of the component (pump, heater etc). Check to see if they need to be tightened and if so, grip and turn clock-wise to tighten.





TECHNICAL SUPPORT CONTACT

If reading through this manual and following the solutions from the troubleshooting guide has not resolved your issue, please contact Alpine Spas:

EMAIL
service@alpinespas.co.nz

OR PHONE: 0800 99 33 88

SELECT TECHNICAL SUPPORT FROM THE OPTIONS
Support is available Monday to Friday: 9.00am - 5.00pm



Find support documents and guides on our website at:
<http://alpinespas.co.nz/support/>





TROUBLESHOOTING

Water Troubleshooting

Please see our 'Spa Pool Water Care Handbook' for a complete guide of troubleshooting water issues. See page 19 for more information.



Download the handbook from the support page on our website:
<http://alpinespas.co.nz/support/>

General Troubleshooting

| ISSUE | POSSIBLE CAUSE | SOLUTION |
|---|---|---|
| Display is blank | Data connection failed | Switch Spa pool OFF and ON again |
| No power | Breaker or RCD OFF Loose plug or wires | Check RCD is turned on Check plug & wire connections (electrician) |
| RCD trips | Mis-wired connections Component failure | Check wiring is correct & matches diagram (electrician) Call for service |
| Spa pool NOT heating | Spa pool in rest/away/sleep mode Temp set low | Change mode to ready/normal mode Increase set temperature |
| Spa pool doesn't reach set temperature | Spa pool in rest/away/sleep mode | Change mode to ready/normal mode |
| Low jet pressure | Jets closed 2-Speed Pump in low speed | Turn jet face anti-clockwise to open. Press jet button again to enter high speed |
| No jet pressure | Air-lock in plumbing | Prime pump by pressing jets button on/off 2-3 times in sequence. Bleed pump by loosening the barrel union |
| Spa pool is leaking / water appears on ground around cabinets | Overflow valve engaged Leaking from barrel union Leaking from corrosion | Contact Technical Support Check & tighten barrel unions on pumps & controller Contact Technical Support |



Diagnostic Messages - Topside Control Panel

| MESSAGE | CAUSE | ACTION REQUIRED |
|--|--|--|
| ER-2 HEATER PLUG (no heat sensor communication) | Internal heater sensor communication error | Turn mains power OFF, wait 5 minutes then restart spa pool. Contact tech if problem not resolved |
| ER-3 WATER PRIME (prime has failed) | Air detected in heater tube Low water level Dirty filter cartridges Airlock in pipe work Slice-valves shut | Press Pump A button to retry water prime. Check spa pool water level (refill if necessary) Remove and clean filter cartridges then press Pump A button to retry prime Bleed air from pipes by loosening barrel unions on pumps Check all slice valves are open |
| ER-4 THERMAL TRIP (Heater thermal trip activated. Heater has been active & has had insufficient water flow over the element. Low or no water flow has caused the heater temperature to exceed its maximum limits & the spa pool control has shut down operation to prevent any damage to the heater unit) | Low water level Airlock in pipe work Dirty filter cartridges Slice-valves shut | Check spa pool water level (refill if necessary) Bleed air from pipes by loosening barrel unions on pumps Remove and clean filter cartridges then press Pump A button to retry prime Check all slice valves are open |
| ER-5 POOL TOO HOT (Water temperature too high, sensor reading +45 degrees) | High ambient temp (summer) Excessive filtration time | Turn off spa pool, remove cover and allow water to cool before switching back on. Reduce filtration time |
| ER-6 12V OVERLOAD | 12V port current draw exceeding 1A limit | Call for service |
| ER-8 CTRL FAULT HVS (heater relay on when it should be off) | Power Surge Periods of low/high voltage Water on controller terminal | Turn mains power OFF & back ON again Inspect inside spa pool cabinet for leaks or evidence of water exposure to controller. Turn off spa pool, dry water/fix leak and let controller dry out |
| ER-10 OVER CURRENT (Mains 230v current draw above current limited C.LMT detected) | Components current draw too large for C.LMT setting | Power OFF/ON. Check C.LMT / L.SHD / L.LMT settings are correct. Do elimination test on components using the control panel to identify which connection is causing the fault |



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