alpinespas™

SPA POOL MANUAL





TABLE OF CONTENTS

1 **Introduction** 4

2 **Welcome / Spa Pool Record** 5

3 **Important Safety & Operating Instructions** 6
Placing the spa pool 9

4 **Installation Instructions** 10
Spa pool contents 10
Assembling the accessories 10
Pre-fill procedure 11
Filling the spa pool 12
Electrical wiring / powering up 14

5 **Startup & Refill Procedure** 16
Installing the filter cartridges 16
Switching on & heating up 19
Balancing & sanitizing the water 20

6 **Spa Pool Usage Guide & Tips** 21
Topside control panel quick guides 21
Spa pool operation - Balboa control systems 26
Spa pool operation - SpaNet control systems 30

7 **Getting to Know Your Spa Pool** 34
Spa pool overview by model 34
Spa pool parts labelled 78
Pressure diverter & air venturi valves 82
Waterfall control 82
Air blower & Aromatherapy 83
LED lights 84
Jets 84
Sound system 86

8 **Spa Pool Care & Maintenance** 88
Draining the spa pool 88
Cleaning the filters 89
Cleaning the acrylic shell 89
Cleaning & maintaining the cabinet 90
Caring for the spa pool cover 90
Performing a pipe clean 91
Leaving the spa pool short term 92
Leaving the spa pool long term 93
Cleaning schedule / checklist 94

9 **Service Information** 95
Pump maintenance 95
Barrel union maintenance 95
U.V bulb replacement 96
Technical support contact 96
Troubleshooting 97

Congratulations!

You are the proud new owner of an Alpine 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 the specifications without notification.

If you have any questions about this manual or the spa pool, please contact Alpine Spas for assistance.

Your Personal Record

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.....

System Controller Balboa or SpaNet.....

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

Date of purchase.....

Date of installation.....

This owners manual, along with other helpful material can be downloaded from our support page: http://alpinespas.co.nz/support/

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:**
   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.

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 localized 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 it's 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 perimeter LEDs 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 sanitize 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 at least 4 hours of filtration is performed by the spa pool each day (this is set as a default: 2 hours, twice per day).

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

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


Spa Pool Water Care Kit


Cover Lifter (Optional extra)

Items Packaged *Inside the Spa Pool:*


Spa Pool 2-Tier Steps


1-2 Filter/s & Two Filter Mesh (Select Models)


1 Spare Vertical Slat (Select Models)


iPack

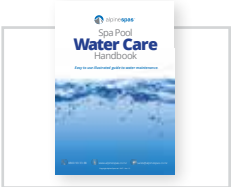
Items Packaged *Inside the iPack*:


Two Filter Lid Cover Caps (Select models - Grate Skimmer)


Drain Valve to Garden Hose Attachments


Cable Exit Grommet & Controller Gland (Select Model)


Aromatherapy (Select models)



Important Documents

ASSEMBLING THE ACCESSORIES

Spa Pool Cover

The cover requires minimal installation other than unpacking and placing on top of the spa pool. There are 8 safety locks hanging off the sides of the cover which need to be screwed into the spa pool cabinet by the customer. Full instructions, screws and cover keys can be found attached to one of the hanging safety locks.

Spa Pool Steps

Assembling the two-tier steps is self-explanatory. Simply press together - no screws or tools required. The steps measure 890 x 600mm (W x L).

Note: The Yukon Spa uses combination locks rather than key locks. The steps are a pre-assembled 3-4 tier ladder. Screws are not included with the cover.

Spa Pool Cover Lifter (Optional Extra)

The cover lifter needs to be assembled onto the spa pool, please see the instructions in the cover lifter box and follow them carefully. Two brackets need to be secured into opposite sides of the spa pool cabinet. Certain setups may have restrictions - see our 'Cover Lifter Installation Guide' for confirmation.

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

PRE-FILL PROCEDURE

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:



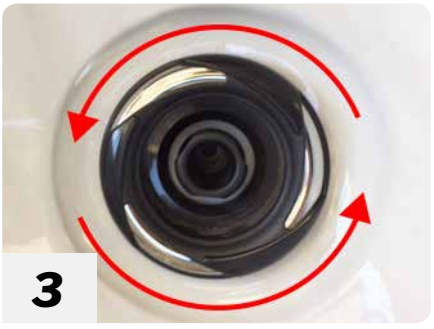
1

Check the silver plaque on the side of spa pool cabinet (or see your invoice) to find your spa pool model's name. See pages 34 - 77 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.



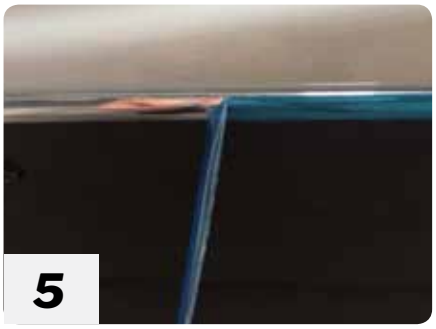
3

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 (extended) with the inner twist cap screwed in tight.



5

Remove the 3M™ blue protective film from the stainless steel strip that surrounds the edge of the acrylic.

FILLING THE SPA POOL - FLOATING WEIR SKIMMER

DUO, NOVA, CUB, FRONTIER, OASIS, YUKON, ARCTIC & GLACIER SPA POOLS



Place your hose through a gap in the skimmer box lid to secure it and begin filling.



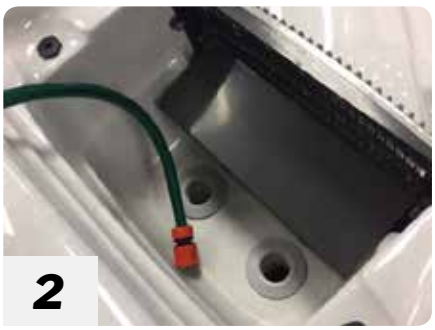
Fill until the waterline reaches just below the perimeter LED lights that surround the acrylic (select models) or aim for an inch below the headrests.

FILLING THE SPA POOL - GRATE SKIMMER

MONT BLANC, WHISTLER, MAKALU, SUMMIT, MATTERHORN, LUCANIA, MCKINLEY, VANCOUVER, MUNRO, EVEREST & K2 SPA POOLS.



Remove the skimmer lid caps (if installed already) and unthread the two plastic screws to take off the whole skimmer lid.



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).



Fill until the waterline reaches just below the perimeter LED lights that surround the acrylic (select models) or aim for an inch below the headrests.

DO NOT POWER SPA POOL BEFORE COMPLETELY FILLED!

FILLING THE SPA POOL - STANDARD WEIR SKIMMER

ENTERTAINER X80 & ENTERTAINER X90 SPA POOLS.



Place your hose inside the skimmer box and tuck behind the filter flap to secure.



Fill until the waterline reaches just below the perimeter LED lights that surround the acrylic (select models) or aim for an inch below the headrests.



DO NOT POWER SPA POOL BEFORE COMPLETELY FILLED!

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 for Standard Series and Platinum Models:

MODEL	AMP	CABLE/PLUG	TECH INFO / WIRING
DUO	15A	15A CABLE INCLUDED	See Page 34
NOVA	15A	15A CABLE INCLUDED	See Page 36
MONT BLANC	15A	15A CABLE INCLUDED	See Page 38
WHISTLER	15A	15A CABLE INCLUDED	See Page 40
BLACKBURN	15A	15A CABLE INCLUDED	See Page 42
YUKON	15A	15A CABLE INCLUDED	See Page 44
MAKALU	15A	15A CABLE INCLUDED	See Page 46
SUMMIT	15A	15A CABLE INCLUDED	See Page 48
MATTERHORN	15A	15A CABLE INCLUDED	See Page 50
LUCANIA	15A	15A CABLE INCLUDED	See Page 52
MCKINLEY	25A	HARDWIRE REQUIRED	See Page 54
VANCOUVER	25A	HARDWIRE REQUIRED	See Page 56
MUNRO	25A	HARDWIRE REQUIRED	See Page 58
EVEREST	25A	HARDWIRE REQUIRED	See Page 60
K2	25A	HARDWIRE REQUIRED	See Page 62
CUB	32A	HARDWIRE REQUIRED	See Page 64
FRONTIER	32A	HARDWIRE REQUIRED	See Page 66
OASIS	45A*	HARDWIRE REQUIRED	See Page 68
ARCTIC	45A*	HARDWIRE REQUIRED	See Page 70
GLACIER	45A*	HARDWIRE REQUIRED	See Page 72
X80 (Entertainer)	45A*	HARDWIRE REQUIRED	See Page 74
X90 (Entertainer)	45A*	HARDWIRE REQUIRED	See Page 76

Setting Up a 15A Model:

A 15A spa pool requires a 15A socket and 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 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, 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 in the iPack). A drill with a 60mm hole-saw attachment will provide the right size for the grommet.



Cable grommet after installation

***NOTE:** *Customers generally prefer the default 15A factory setting, however it is possible to wire a dedicated 25A electrical feed for both the heater and pump to run simultaneously. A guide for your electrician can be downloaded from our support page.*

Setting Up a 25A/32A/45A Model:

A 25A/32A/45A spa pool requires a dedicated feed from your circuit board and appropriate Residual Current Device & Isolation switch.

An electrician is required to setup and connect the appropriate wiring. To locate the system controller, see your spa pool's corresponding tech info/wiring page (using the table on the previous page).

The cable should be fed through the cabinet wall (a cable grommet is supplied in the iPack should you wish to use this) and a drill with a 60mm hole-saw attachment will provide the right size for the grommet (see above image). Alternatively, a tighter fit can be achieved without the grommet by just using a drill bit the same size as the flex diameter and drilling through the cabinet wall.

If a 45A connection cannot be achieved, load shedding/limiting can be applied to restrict the total amp drawn by the spa pool, allowing you to feed 25 - 32A.

Information for load shed & changing 15A to 25A can be downloaded from our support page at: http://alpinespas.co.nz/support/

INSTALLING THE FILTER CARTRIDGES - FLOATING WEIR SKIMMER

DUO, NOVA, CUB, FRONTIER, OASIS, YUKON, ARCTIC AND GLACIER SPA POOLS.

Filter(s) are found attached to the step box.



Grab the top lid with two hands and twist anti-clockwise to detach (can be quite stiff).



Lift off the lid to reveal the basket grill underneath.



Lift out the basket grill and place aside.



Inside the skimmer box, see the circular holding piece that the filter cartridge will sit over.



Insert the filter and place it over the circular holding piece so it sits tight.



Insert the basket grill into the top of the filter, lining up the circular hole.



Press the basket down gently to ensure a tight fit.



Replace the top lid by gently putting downwards pressure while turning clockwise, until it snaps back into place.

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

INSTALLING THE FILTER CARTRIDGES - GRATE SKIMMER

MONT BLANC, WHISTLER, BLACKBURN, MAKALU, SUMMIT, MATTERHORN, LUCANIA, MCKINLEY, VANCOUVER, MUNRO, EVEREST AND K2 SPA POOLS.

Filter(s) are found attached to the step box.
NOTE: Mont Blanc & Blackburn use a 'singular grate skimmer' with a different design lid (no removable caps) and only have one 'thread hole' for one filter.



Remove the two drink holder caps from the top of the skimmer lid.



Unscrew the two plastic screws either side of the skimmer lid.



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



Locate the two thread holes at the bottom of the skimmer box.



While lifting up the black grill flap, thread in the two filters gently (clock-wise).



Lay the black grill flap back down on top of the filters.



Optional: If you find you get large debris in the water (leaves, grass etc), install the two mesh pre-filters as shown in image.



Replace the skimmer lid by threading the plastic screws back in and placing the lid caps back on.

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

INSTALLING THE FILTER CARTRIDGES - STANDARD WEIR SKIMMER

ENTERTAINER X80 AND ENTERTAINER X90 SPA POOLS.

Filters are found attached to the step box.



Make sure the inner skimmer flap is laying down as per photo.



Grip front lid as per photo, and gently lift upwards (do not pull out at this stage).



When the inner flap hits the top of the skimmer box, pull the front lid outwards.



Locate the sliding grill tray. Take note of how it sits inside the skimmer for later replacement.



Pull the grill tray out towards you.



These two holes have threads at the bottom for your filters to screw into.



Place both filters into the corresponding holes and find the thread to screw into.



Gently twist clockwise until the filter is locked in place (do not use excessive force). Replace the sliding grill tray.



Replace the front lid by positioning the flap in the middle of the skimmer box, and pressing the front lid in towards the skimmer while using downwards pressure.

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

SWITCHING ON & HEATING UP

AVOID PRESSING BUTTONS OTHER THAN 'JETS' ON THE TOPSIDE CONTROL PANEL UNTIL SPA POOL HAS FINISHED HEATING. SPA POOL WILL HEAT AUTOMATICALLY TO 38 ºC.

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. Reset your spa pool if the screen is blank.

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 (priming will finish and exit automatically after 5-10 minutes).

The topside control panel will display the following to indicate the priming mode state:

- "RUN PMPS PURG AIR ----" **BALBOA SYSTEMS**
- "PRIMING" **SPANET SYSTEMS**

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 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 ºC. The circulation pump will engage and begin filtering and heating automatically.

Installing the Cover

Place your spa pool cover on top of the spa pool and lock it down by installing the clips. Full instructions can be found with the clips and screws, which are attached to one of the 8 hanging cover straps.

Heat Up Time

Depending on environment, it can take up to 12-18 hours to heat the spa pool to the default 38 ºC.

BALANCING & SANITIZING THE WATER

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

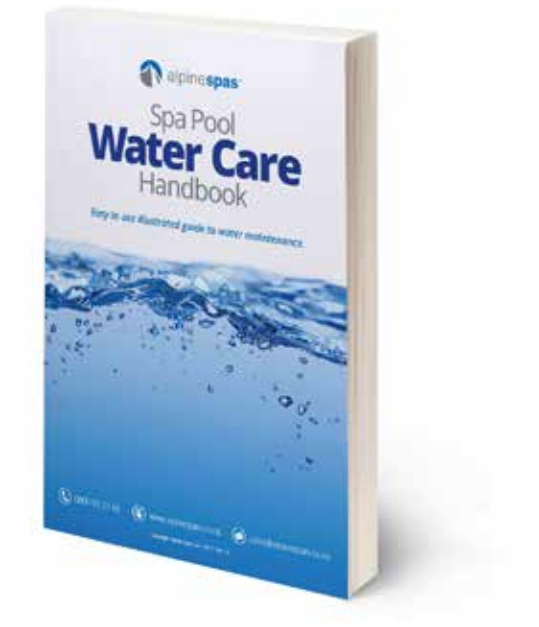
Just like a car, your spa pool needs care and general maintenance to keep it looking good and running smoothly. An integral part of this maintenance is managing the water quality.

To ensure your spa pool is ready to be used at all times, the water needs to be sanitized 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' found in your iPack or download a copy from our support page link at the bottom of this page.

Only use Alpine Spas, PureSpas 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

BALBOA TP400
(NOVA V1 SPA POOL, YUKON V1)

HEAT RANGE
26.5 - 40 °C



JETS
Press to cycle the jet pump between off/low/high running modes. 'Jets' LED light below the screen indicates when the pump is running.

LIGHT BUTTON
Press to activate the spa pool's LED lights. Each press will toggle between the 13 colour options including the fade and strobe functions. 'Light' LED below the screen indicates when this is on.

The light button also allows you to scroll through adjustment options to invert screen, change modes and customise filter cycles. To do this press either the 'WARM/COOL' button, then the 'LIGHT' button.

WARM/COOL
A short single press toggles the spa pool temperature. 'WARM' will increase the temperature, 'COOL' will decrease the temperature.

The 'heat' light below the 'WARM' button indicates when your spa is heating.

BALBOA TP600-1
(DUO, NOVA V2, MONT BLANC, YUKON V2, WHISTLER)

HEAT RANGE
26.5 - 40 °C



TEMP UP/DOWN
A short single press toggles the spa pool temperature. 'TEMP UP' will increase the temperature. 'TEMP DOWN' will decrease the temperature.

The LED 'Heat' light below the display screen indicates when your spa is heating.

LIGHT BUTTON
Press to activate the spa pool's LED lights. Each press will toggle between the 13 colour options including the fade and strobe functions. 'Light' LED below the screen indicates when this is on.

The 'LIGHT' button also allows you to scroll through adjustment options to invert screen, change modes and customise filter cycles. To do this press the 'TEMP UP' button and then the 'LIGHT' button.

INVERT
Press to change the orientation of the LCD screen

JETS
Press to cycle the jet pump between off/low/high running modes. 'Jets' LED light below the screen indicates when the pump is running.

BALBOA TP600-2
(MAKALU, MATTERHORN, SUMMIT, LUCANIA SPA POOLS)

HEAT RANGE
26.5 - 40 °C



TEMP UP/DOWN
A short single press toggles the spa pool temperature. 'TEMP UP' will increase the temperature. 'TEMP DOWN' will decrease the temperature.

The LED 'Heat' light below the display screen indicates when your spa is heating.

LIGHT BUTTON
Press to activate the spa pool's LED lights. Each press will toggle between the 13 colour options including the fade and strobe functions. 'Light' LED below the screen indicates when this is on.

The light button also allows you to scroll through adjustment options to set temperature and customise filter cycles. To do this hold down the Temp Up/Down button, then use light button to select options and save setting adjustments.

INVERT
Press to change the orientation of your LCD screen.

BLOWER
Press to toggle the air blower on and off. 'Blower' light below the LCD screen indicates when this is running. Turn this on to activate the aromatherapy system.

JETS
Press to toggle jet pump on and off. 'Jets' LED light below the screen indicates when this is running. Ensure jet pieces are open and use pressure diverts to customise your hydrotherapy experience.

BALBOA TP600-3
(MCKINLEY, VANCOUVER, MUNRO SPA POOLS)

HEAT RANGE
26.5 - 40 °C



TEMP UP/DOWN
A short single press toggles the spa pool temperature. 'TEMP UP' will increase the temperature. 'TEMP DOWN' will decrease the temperature.

The LED 'Heat' light below the display screen indicates when your spa is heating.

LIGHT BUTTON
Press to activate the spa pool's LED lights. Each press will toggle between the 13 colour options including the fade and strobe functions. 'Light' LED below the screen indicates when this is on.

The 'LIGHT' button also allows you to scroll through adjustment options to invert screen, change modes and customise filter cycles. To do this press the 'TEMP UP' button and then the 'LIGHT' button.

BLOWER
Press to toggle the air blower on/off. Turn this on to activate the aromatherapy system.

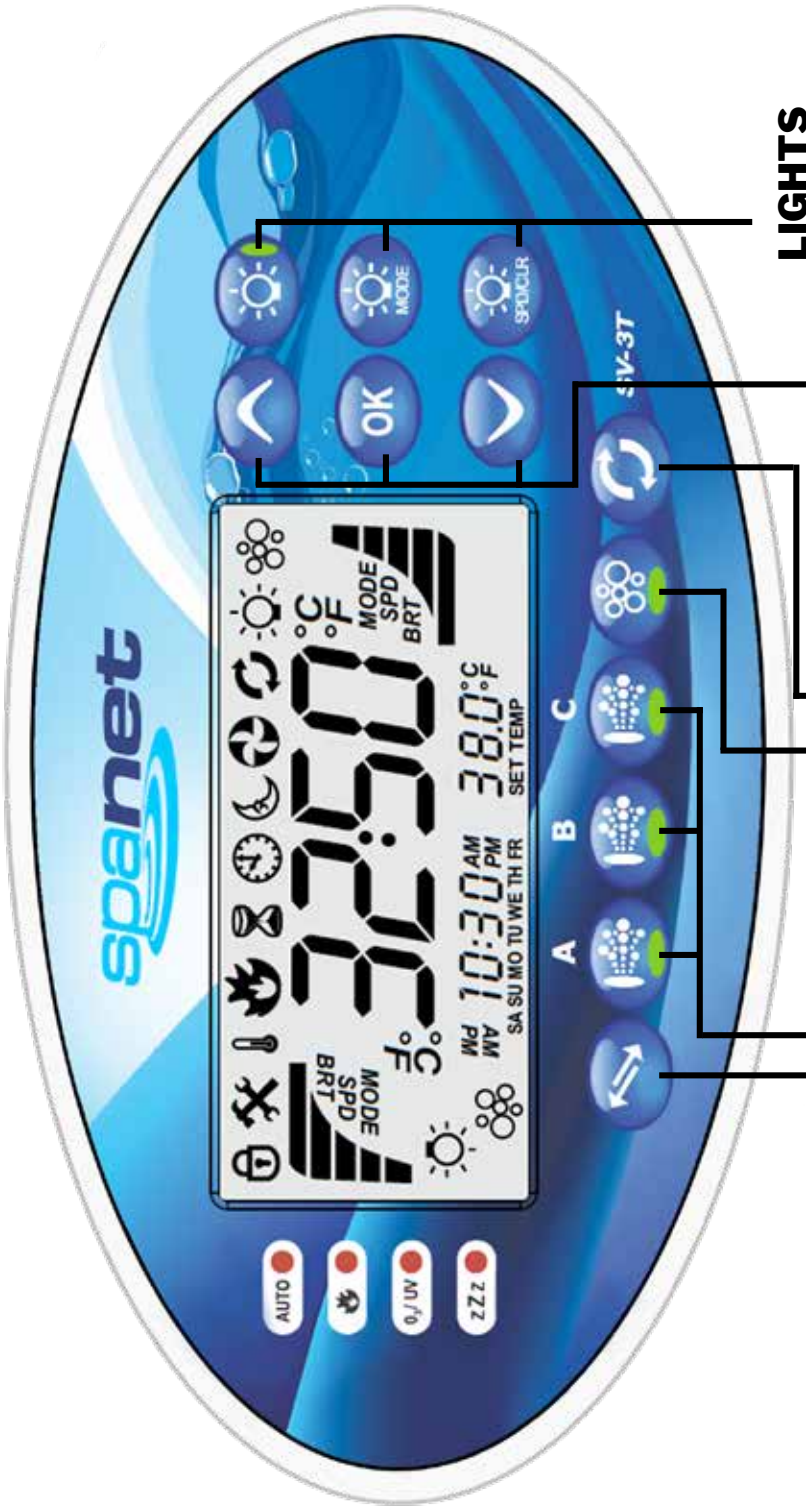
JETS 2
Press to toggle Jets 2 on and off. Jets 2 light below the LCD screen indicates when this is running.

JETS 1
Press to toggle Jet pump 1 on and off. 'Jet 1' light below the screen indicates when this is running. .

SPANET SV3-VH

(EVEREST, K2, CUB, FRONTIER, OASIS, ARCTIC, GLACIER, ENTERTAINER X80, ENTERTAINER X90 SPA POOLS)

HEAT RANGE
10 - 41.0 °C



LIGHTS
Light: Press to toggle spa lights on / off.

Light Mode: Press to activate light mode menu & use the up & down buttons to select one of five different lighting effect modes.

Light Speed/Colour: Press to activate light speed or user colour selection menus. Use up & down buttons to adjust.

UP/DOWN
Short presses of the up & down buttons will toggle through three display modes:
W.TMP = Water Temperature
S.TMP = Set Temperature
TIME = Clock.

Holding the up or down buttons will force the controller to begin adjusting the set temperature in the desired direction.

OK
Use this button to confirm and save setting adjustments or to enter setting adjustment menus.

BLOWER
Press to toggle the air blower on/off. Green light will illuminate when running.

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

INVERT/FLIP
Press to flip screen upside down for easy viewing when spa in use.

JET PUMPS
Press to toggle equipped pumps on & off (some models may only have two pumps). Green light will illuminate when running.

SPA POOL OPERATION - BALBOA SYSTEMS

(DUO, NOVA, MONT BLANC, YUKON, WHISTLER, MAKALU, MATTERHORN, SUMMIT, LUCANIA, MCKINLEY, VANCOUVER, MUNRO SPA POOLS)

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 separate jet pump is turned on manually, or a filter cycle has begun. Every hour the system checks the temperate (a process called 'polling') by activating the circulation pump for 1 minute.

Changing the Temperature

Pressing 'TEMP UP' or 'TEMP DOWN' will cause the temperature to flash on the screen. Holding down these buttons again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the spa pool will begin heating to the new set temperature, but will display the current water temperature on the screen.



TEMP UP



TEMP DOWN

Testing the Components (Jet Pumps & Blower)

Turn each individual jet piece anti-clockwise to open the flow. Then test the jet pump(s) and air blower (if equipped) via the topside control panel by pressing the buttons labeled 'JETS' or 'JETS/BLOWER' with this icon:

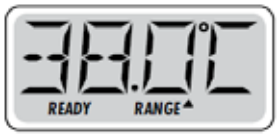


The 'JETS' button will activate the jet pump and high pressured water will flow from the jet pieces.

The 'JETS/BLOWER' button will activate the air blower and bubble air to the surface of the water creating a 'hot tub/jacuzzi' type effect.

NOTE: *Duo, Nova, Mont Blanc and Whistler models have one two-speed jet pump and the speeds are cycled between low/high when pressing the 'JETS' button. For more info on Jet Pump and Blower operation see pages 84 - 85.*

Spa Pool Behavior - Ready Mode



Your spa pool is pre-set to 'Ready Mode' by default, which is the standard operating mode and it's recommend to leave this unchanged. 'Ready Mode' means that the system controller engages 'on-demanding heating', working to keep the water temperature at the desired set temperature (default 38 °C) so that the spa pool is hot and ready to use whenever you are.



Daily 'Ready Mode' behaviour includes running of the circulation pump for 'on-demand heating', as well as two separate 'filter cycles' twelve hours apart each day. The first filter cycle activates 5 minutes after the priming cycle ends and is visible on screen as 'FLTR1'.

Understanding Filter Cycles

A filter cycle is a period in which the circulation pump is run for a set length of time (default is two hours, twice per day). This allows for a dedicated period of water sanitizing and clean up. At the start of each filter cycle, the air blower (if equipped) and main jet pump will run briefly (30 seconds - 1 minute) to purge the plumbing.

Example Daily Filtration Cycles:
- Filter cycle #1: 6am - 8am
- Filter cycle #2: 6pm - 8pm

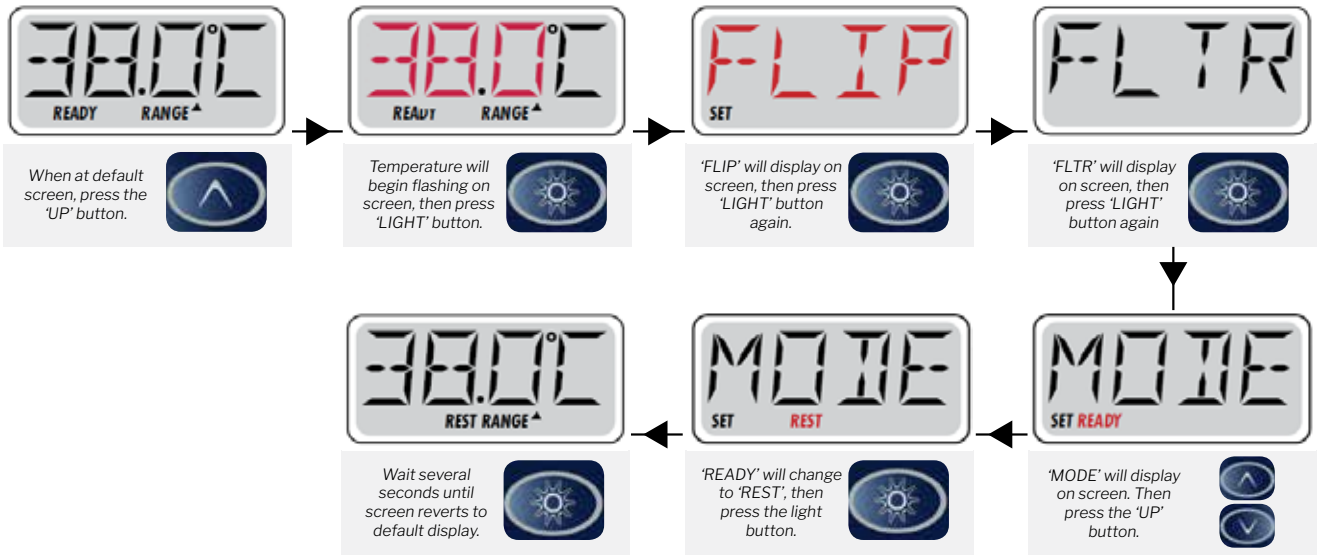
See the following pages for information on setting filter cycle duration and the times they operate.

SPA POOL OPERATION - BALBOA SYSTEMS

Spa Pool Behavior - Rest Mode

In 'Rest Mode', the spa pool will only heat to the user set temperature during the programmed filter cycles. This can be a useful mode to take advantage of power save times given by your electricity provider (such as night rates).

To enter 'Rest Mode':



Changing When the Filter Cycles Run

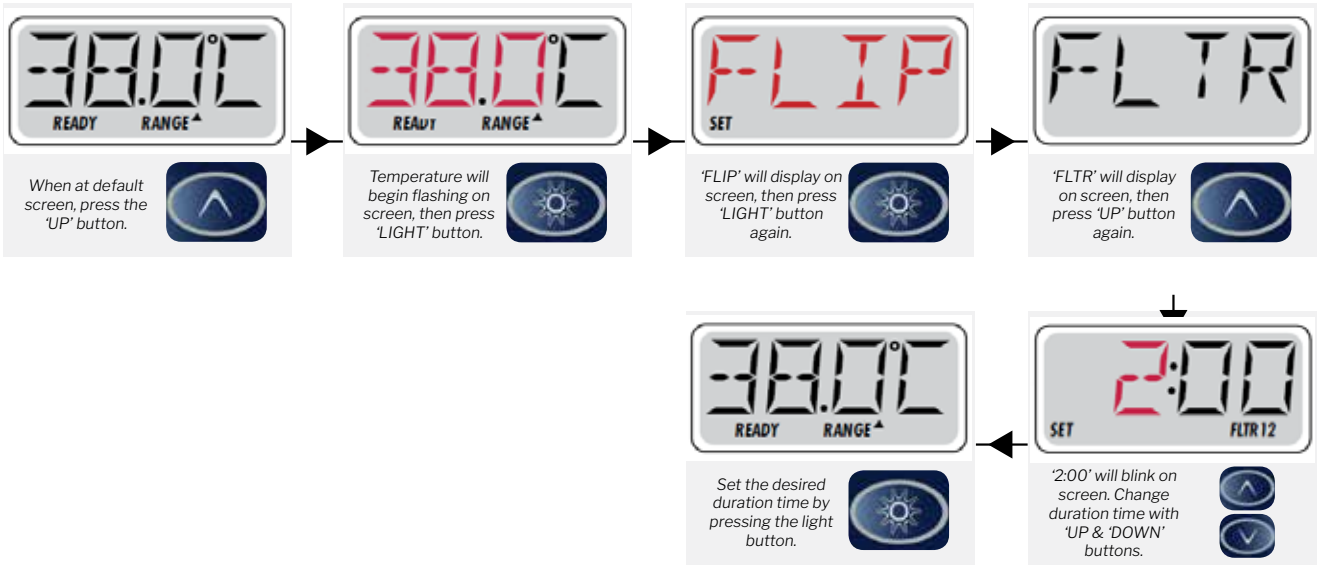
When the spa pool is first powered, filter cycle #1 will begin 5 minutes after completing the priming cycle and finish after 2 hours. Filter cycle #2 will begin exactly twelve hours later. To reset the filter cycles to engage at your desired times, the spa pool should be restarted at the appropriate time by switching off the power, waiting 5 minutes and turning back on.

Example: If you wished to set the filter cycles as:
- Filter cycle #1: 6am - 8am
- Filter cycle #2: 6pm - 8pm

The spa pool would need to be switched off and powered back on at approximately 5:50am for the first cycle to begin at 6am, providing you allowed 5 minutes before switching back on.

Changing the Filter Cycle Duration

If you have large bather loads or find that the spa pool requires extra filtration time, you can increase the duration of the filter cycles.



Having an understanding of increasing and decreasing filter cycle duration will be useful for water maintenance issues such as foaming or cloudy water.

Invert Screen Button

It is possible to invert the LCD screen to face you while you are sitting in the spa. A single press of the invert button will flip the screen 180° :



INVERT

A full control panel manual can be downloaded from our support page: http://alpinespas.co.nz/support/

SPA POOL OPERATION - SPANET SYSTEMS

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

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 W.TMP (water temp). You can cycle between the below three display modes with the 'UP' or 'DOWN' buttons:



It's recommended to leave the display on W.TMP 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 LCD stops flashing, the spa pool will heat to the new set temperature (the spa pool cannot cool the water).



UP *DOWN*

Testing the Components (Jet Pumps & Blower)

Turn each individual jet piece anti-clockwise to open the flow. Then test the jet pump(s) and air blower (if equipped) via the topside control panel by pressing:



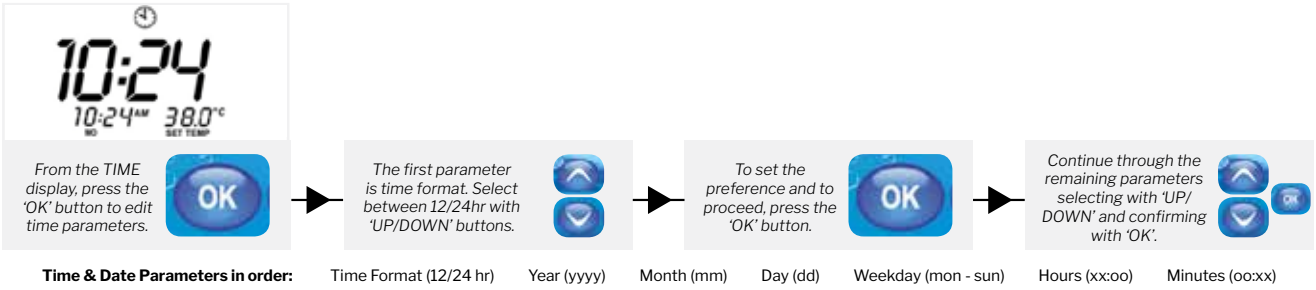
PUMP *BLOWER*

The 'PUMP' button will activate the jet pump and high pressured water will flow from the jet pieces. The 'BLOWER' button will bubble air to the surface of the water, creating a 'hot tub/jacuzzi' type effect.

Setting the Time & Date

Be sure to set the date and time before operating the spa pool. Vital functions such as filtration, sanitization cycles and power saving settings are dependent on correct time and date.

Navigate to the TIME display by following the instructions on the previous page then follow these steps to set the time:



Spa Pool Behavior - Running Modes

Your spa pool is pre-set to 'Normal' running mode by default which is the standard operating mode and it's recommend to leave this unchanged. '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.

Three 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
ECON	Economy	Demand heating can only occur when filtration pump is running
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:



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

SPA POOL OPERATION - SPANET SYSTEMS

Sanitize/Clean-up Cycle

The sanitize button activates a 20 minute sanitization 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 and the blower for one minute each to purge the plumbing and clear any unfiltered water trapped in those lines.



SANITIZE

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:



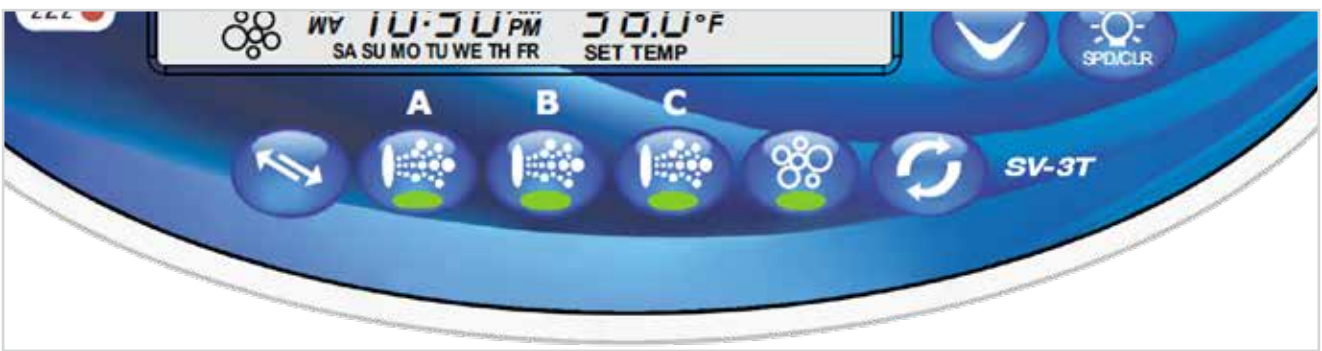
UP + *DOWN* + *PUMP A*

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



UP + *DOWN* + *PUMP B*

NOTE: To unlock, repeat the sequence.
Pumps are labeled A, B, C from left to right on the control panel.



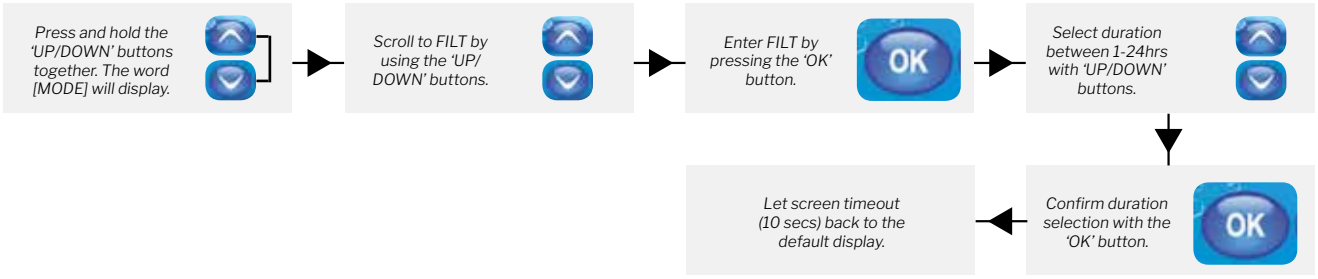
Filter Cycles

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 sanitizing and clean up. At the start of each filter cycle, the blower (if there is one) and main jet pump may run briefly to purge the plumbing to maintain good water quality.

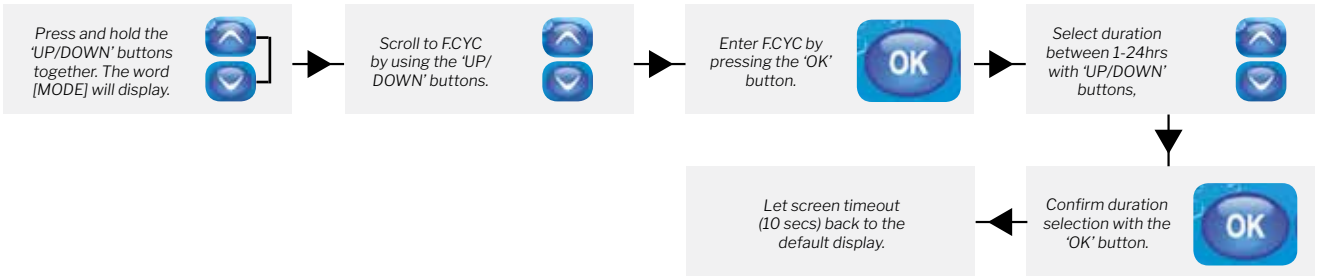
Filter cycle operation consists of two separate programmable parameters:
- Duration of filtration per day [FILT] (hours per day, e.g. 4 hours total per day)
- Filter cycle blocks [F.CYC] (time between start of each filter cycle, e.g. 4 hours)

The default settings are: 4 hours filtration per day with 4 hour filter blocks (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 sleeping 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 Setting = Sleep Timer 1 (Sat – Fri; Sleep period 22:00 – 07:00).

A full SpaNet control panel guide including sleep timer settings can be downloaded from our support page: http://alpinespas.co.nz/support/

DUO SPA POOL OVERVIEW

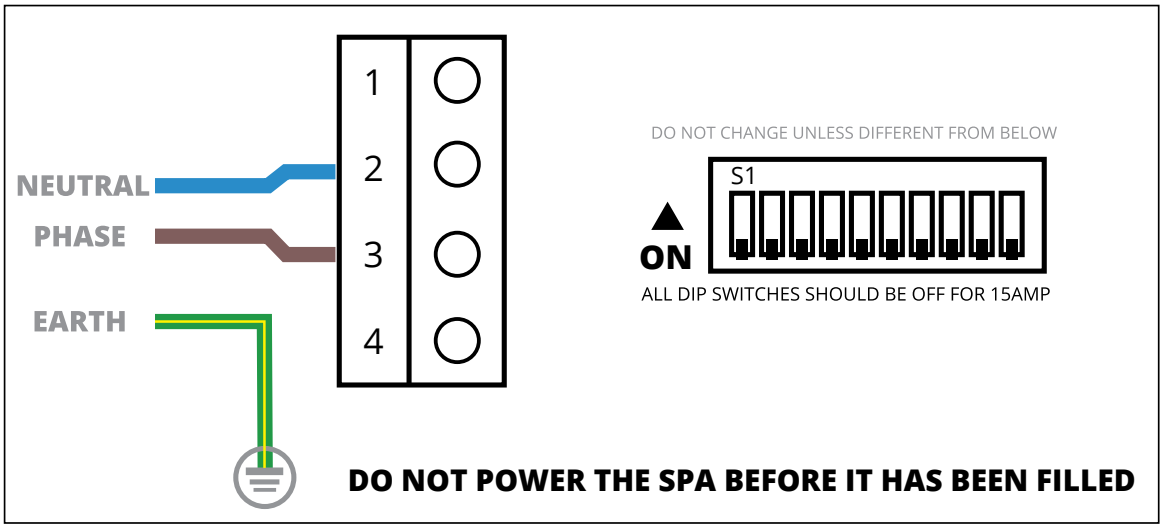
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	Two-Speed Circulation / Jet Massage Pump (2HP)
Skimmer/Filter Type	Floating Weir
Sanitizers	Ozone
Electrical Info	15amps 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.



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 78 - 81





MONT BLANC SPA POOL OVERVIEW

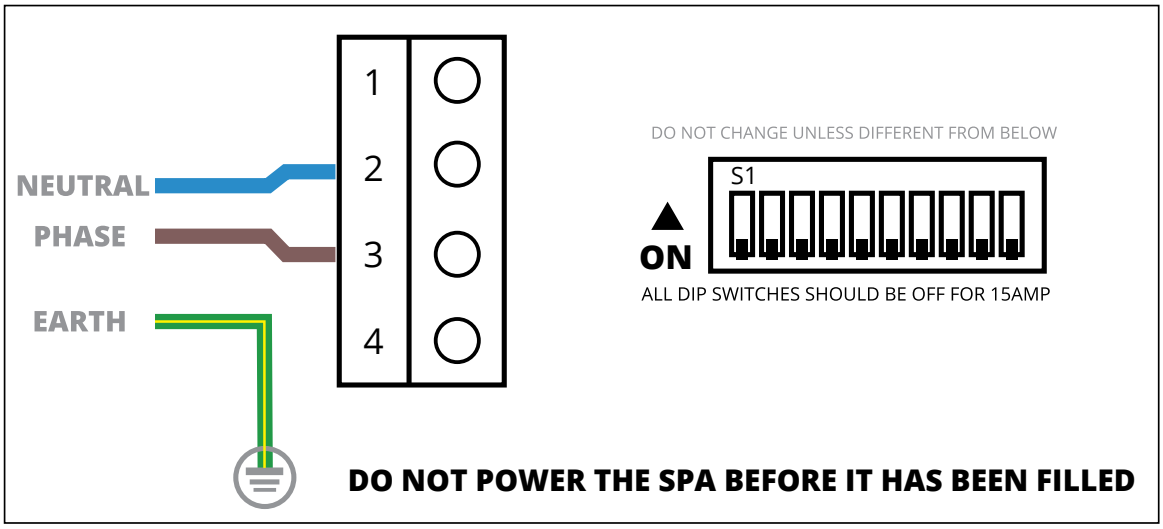
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP400 (rectangle) or Balboa TP600 (round)
Heater Element	3KW
Pumps	Two-Speed Circulation / Jet Massage Pump (3HP)
Skimmer/Filter Type	Grate Filter (Singular, one filter)
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.



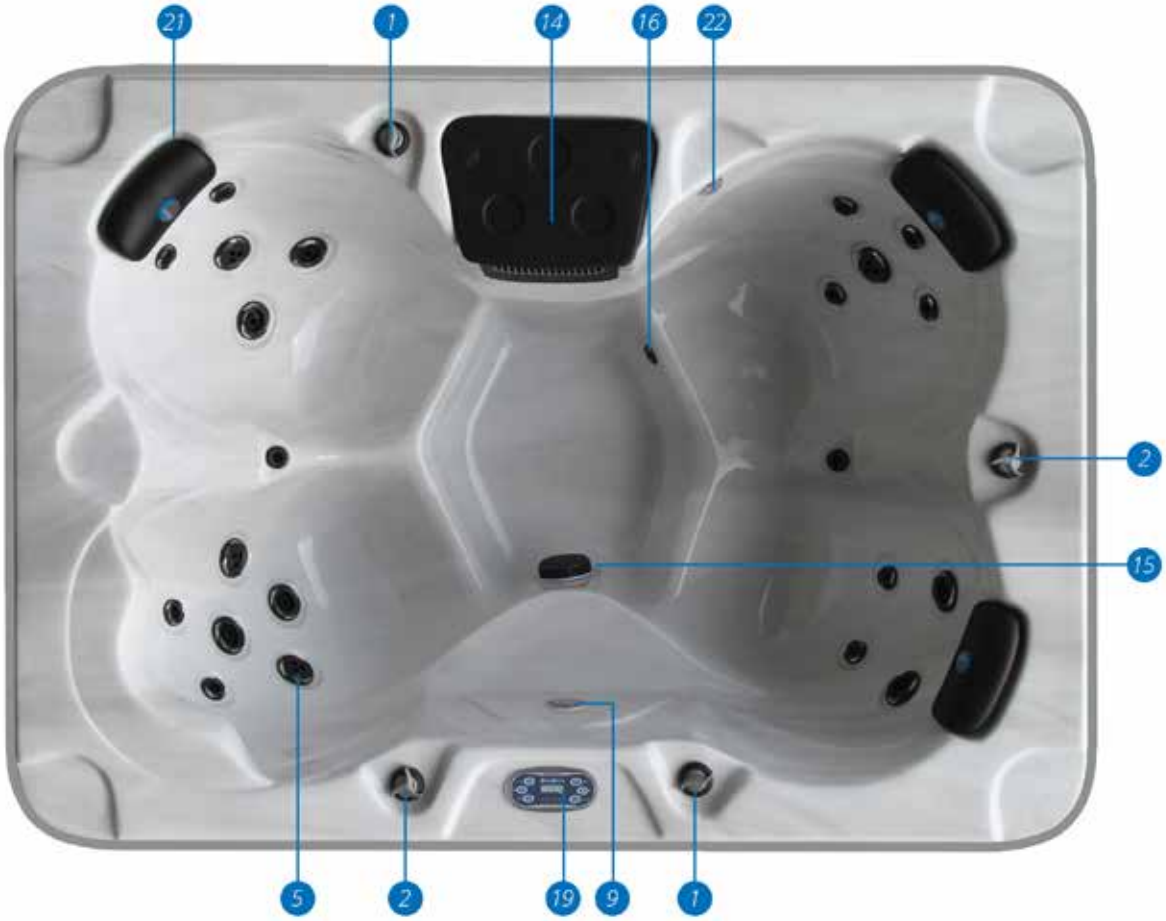
To setup for high amp (25A, no load shed*) see page 15 for information.

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 78 - 81





NOVA SPA POOL OVERVIEW

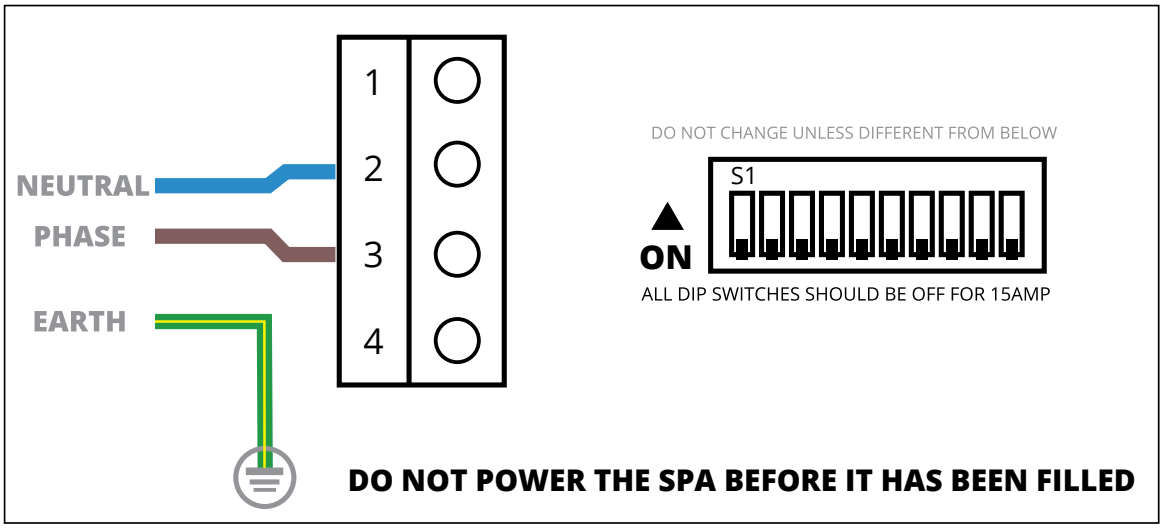
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP400 (rectangle) or Balboa TP600 (round)
Heater Element	3KW
Pumps	Two-Speed Circulation / Jet Massage Pump (3HP)
Skimmer/Filter Type	Floating Weir Filter
Sanitizers	Ozone
Electrical Info	15amps 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.



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 78 - 81



WHISTLER SPA POOL OVERVIEW

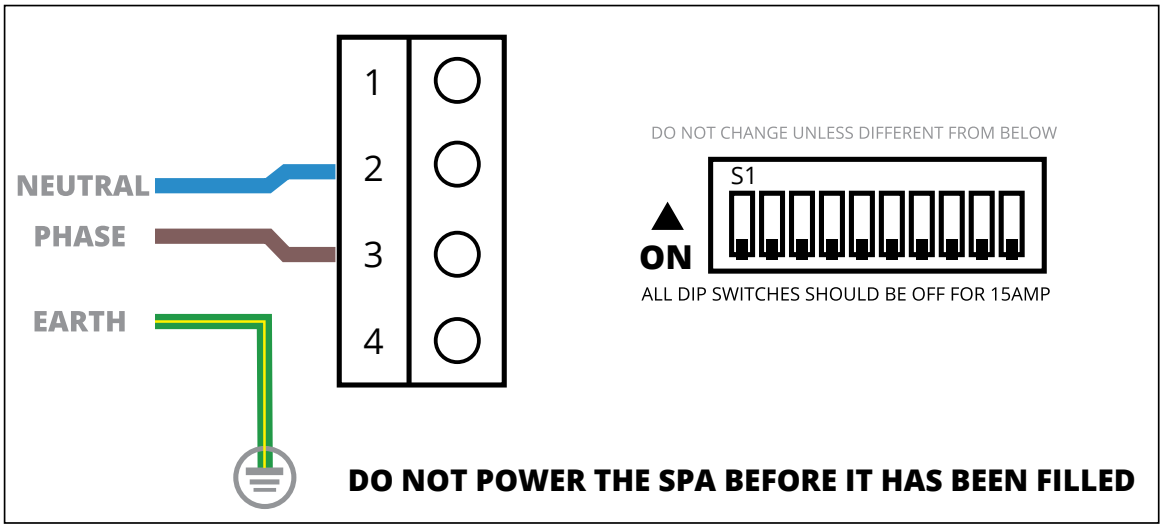
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	Two-Speed Circulation / Jet Massage Pump (3HP)
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone
Electrical Info	15amps 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.



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 78 - 81



BLACKBURN SPA POOL OVERVIEW

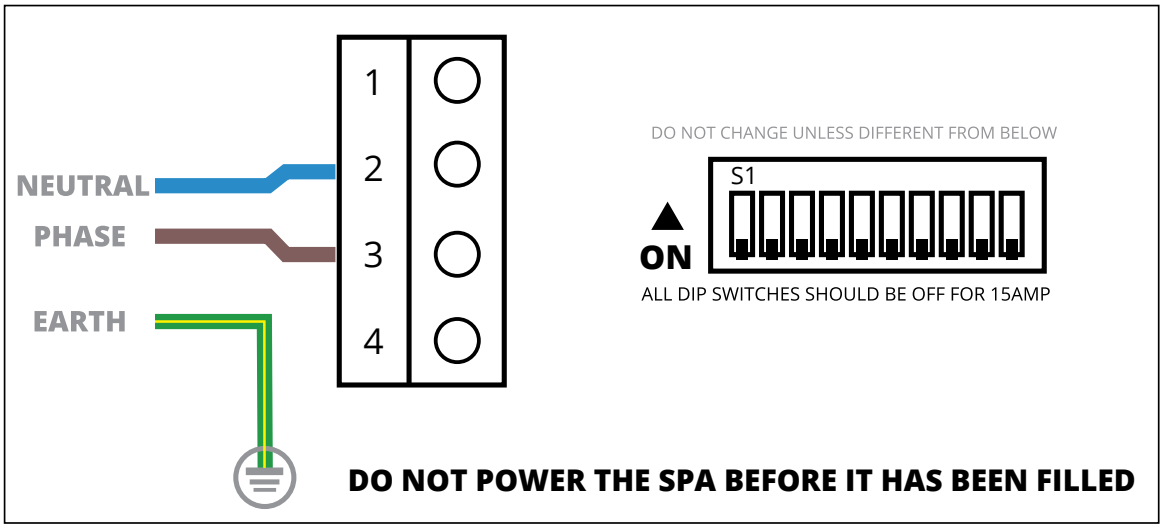
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP)
Skimmer/Filter Type	Grate Filter (Singular, one filter)
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.

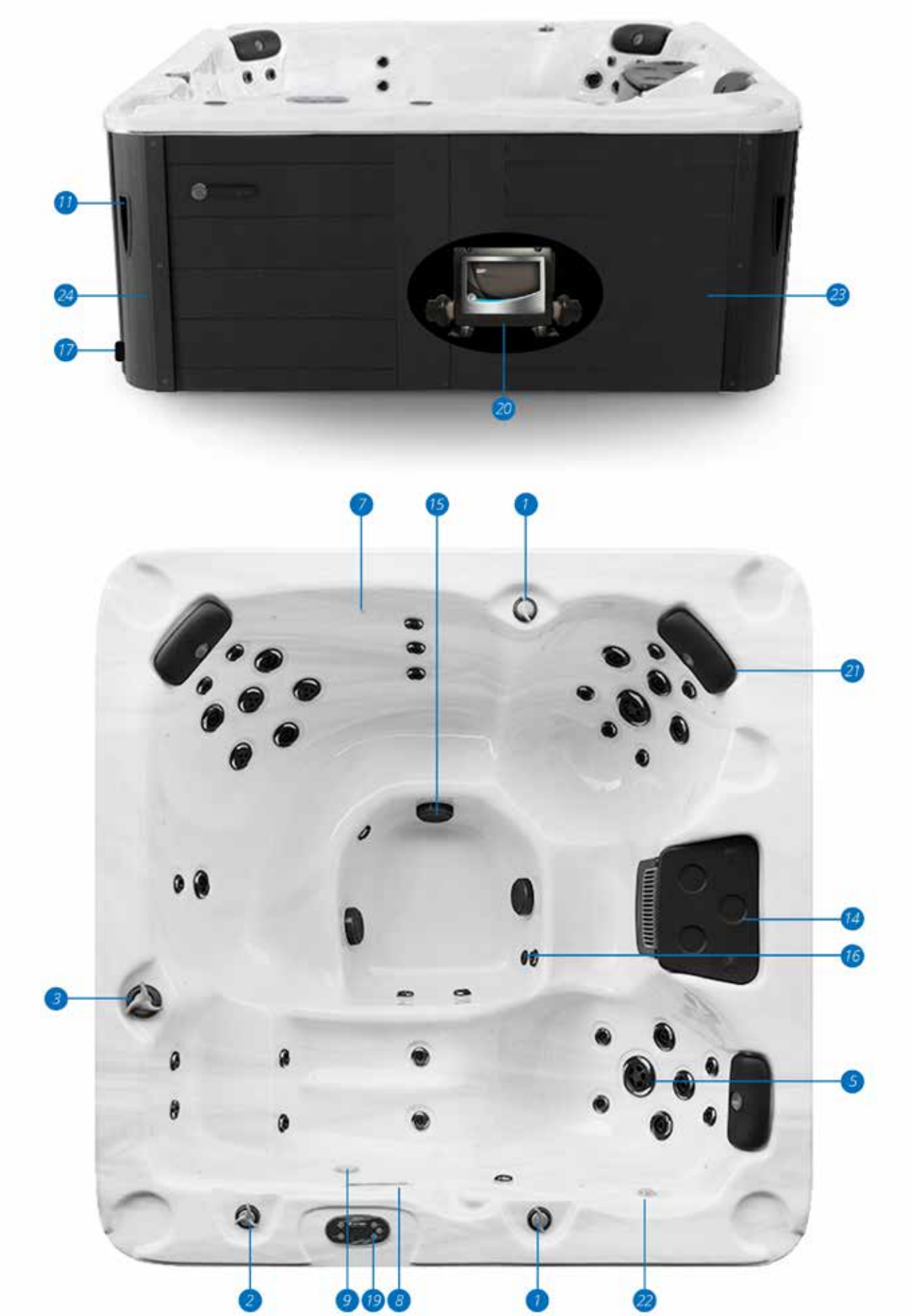


To setup for high amp (25A, no load shed*) see page 15 for information.

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 78 - 81



YUKON SPA POOL OVERVIEW

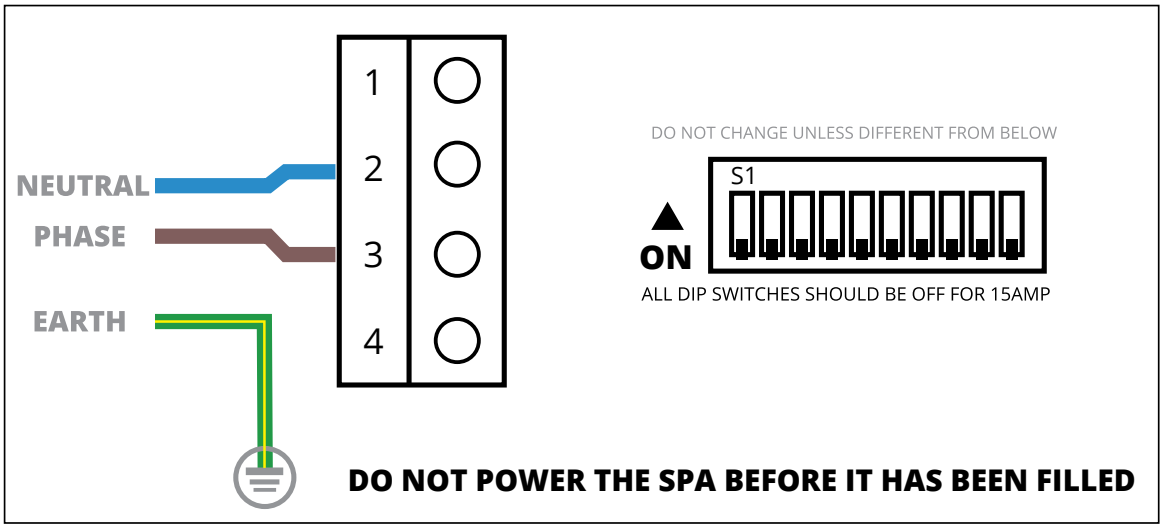
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP400 or TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP)
Skimmer/Filter Type	Singular Grate Filter
Sanitizers	Ozone
Electrical Info	15amps 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.



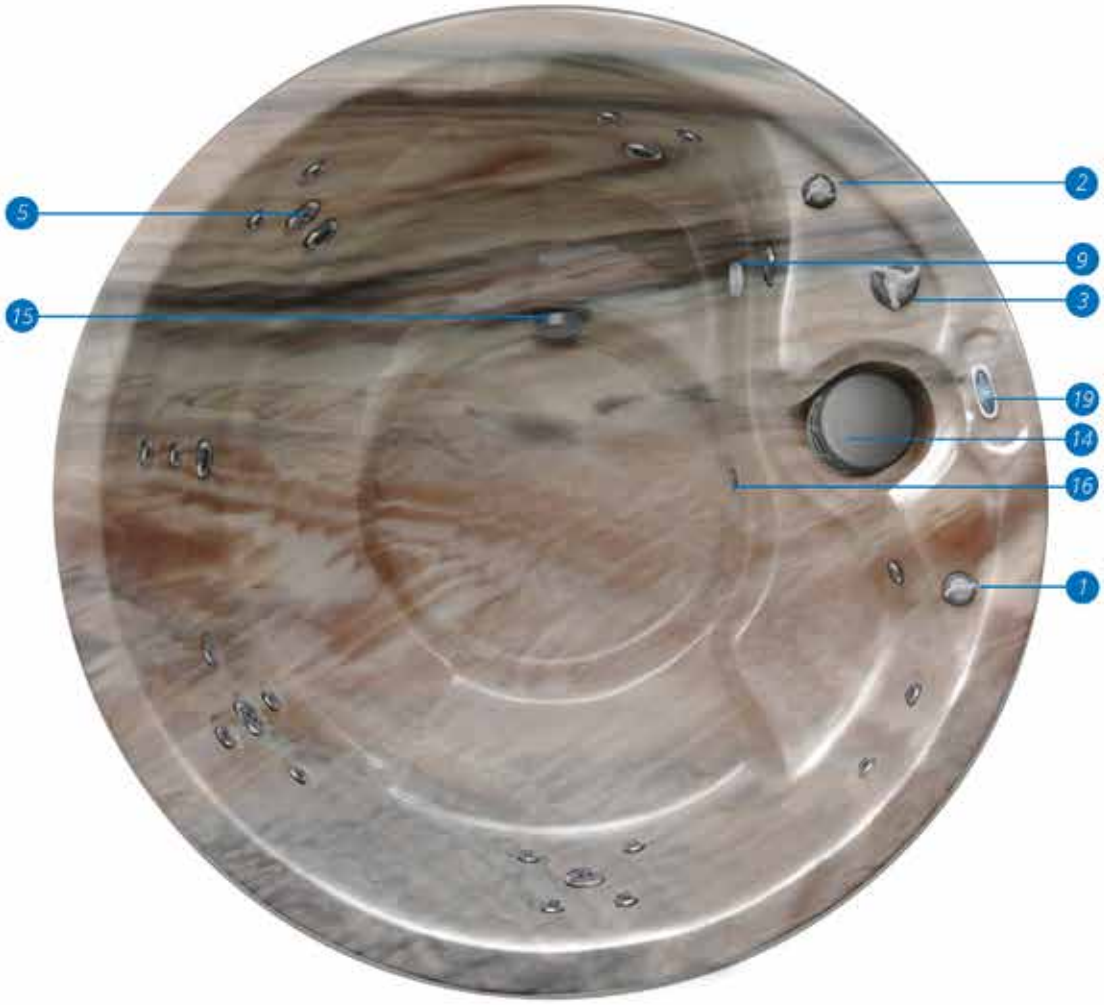
To setup for high amp (25A, no load shed*) see page 15 for information.

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 78 - 81





MAKALU SPA POOL OVERVIEW

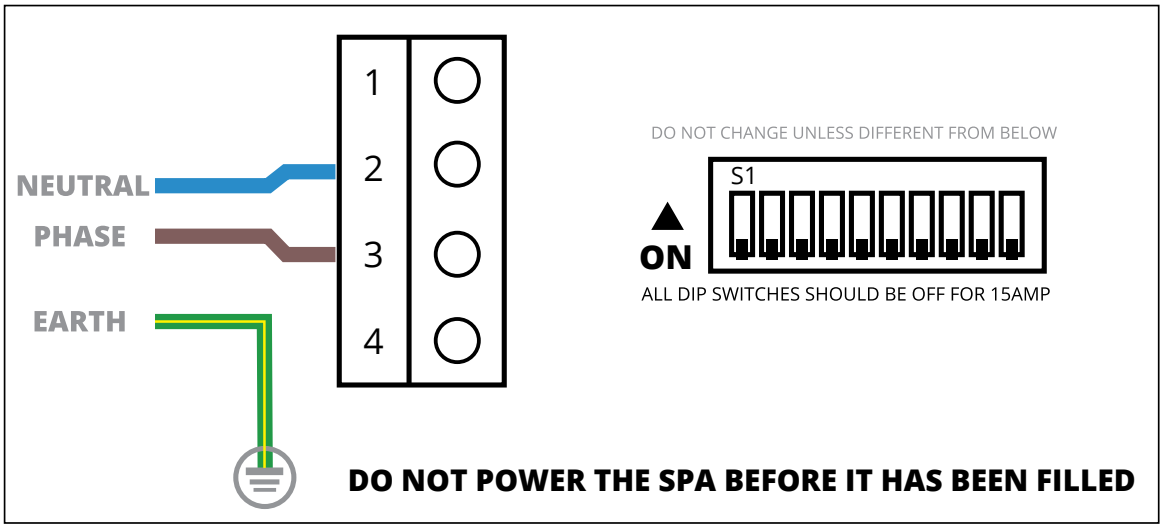
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.



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 78 - 81



MATTERHORN SPA POOL OVERVIEW

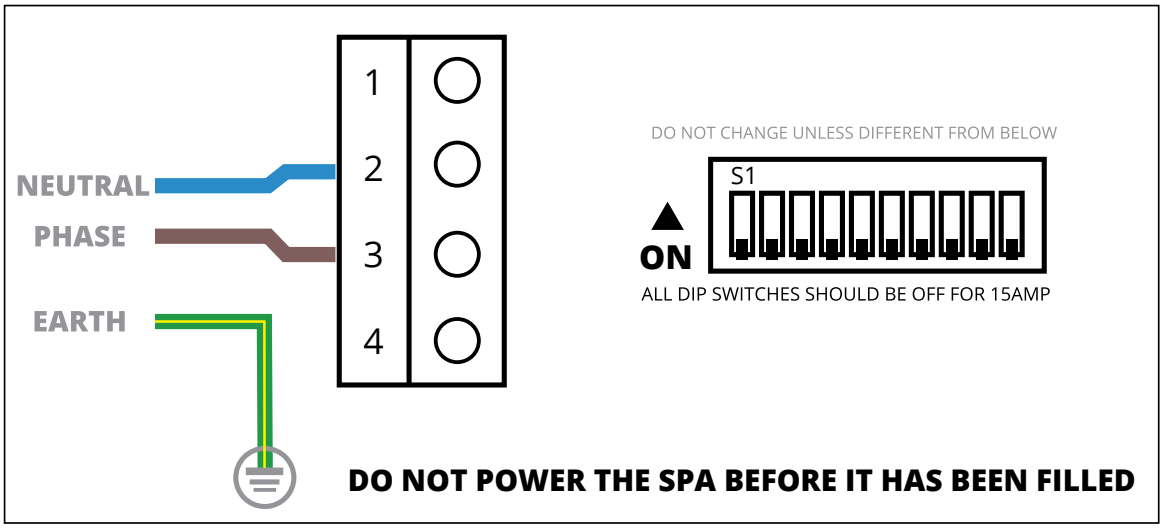
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.



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 78 - 81



SUMMIT SPA POOL OVERVIEW

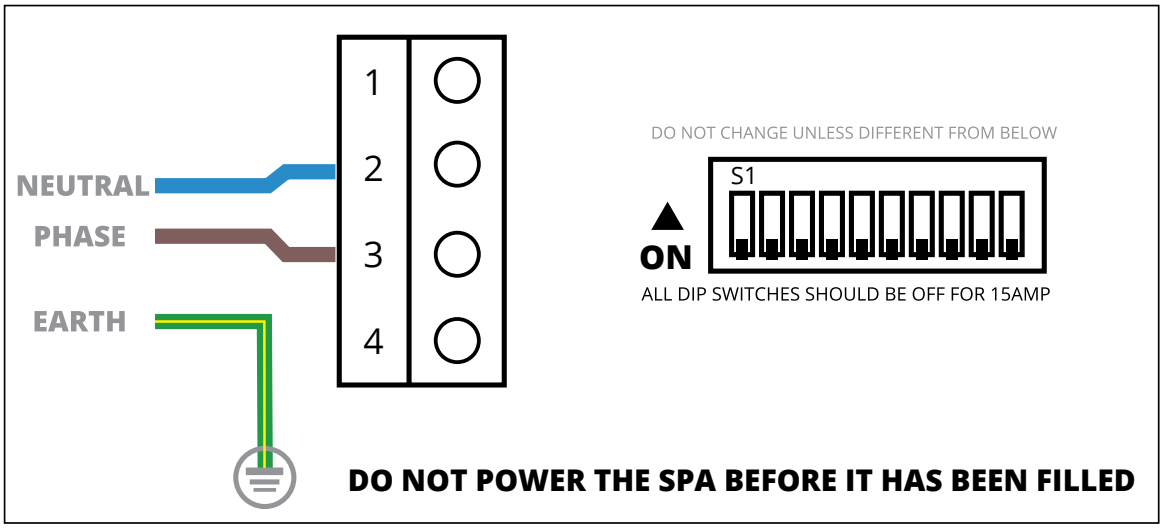
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.



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 78 - 81





LUCANIA SPA POOL OVERVIEW

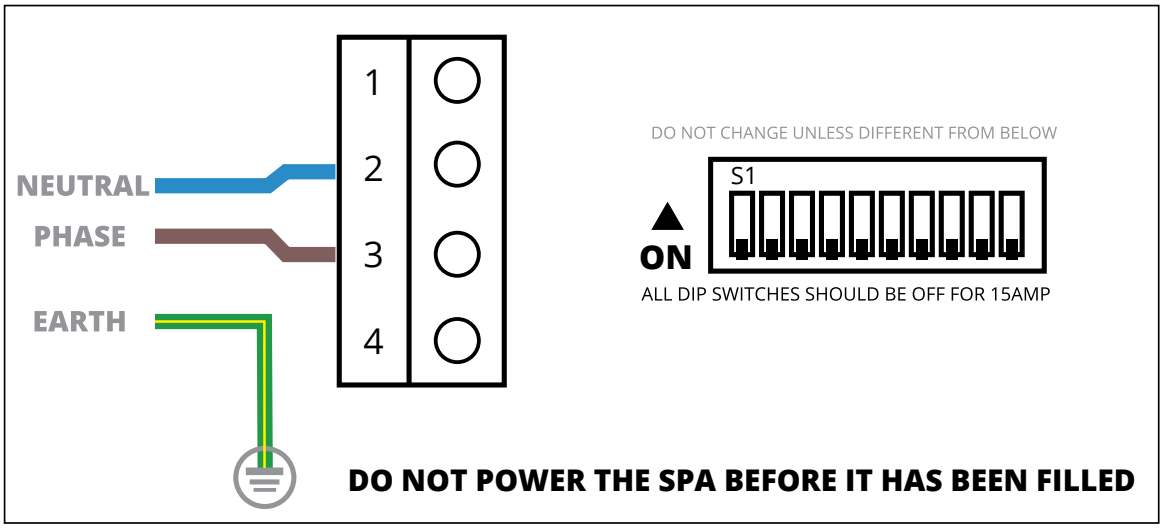
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 1x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	15amps 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.



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 78 - 81





MCKINLEY SPA POOL OVERVIEW

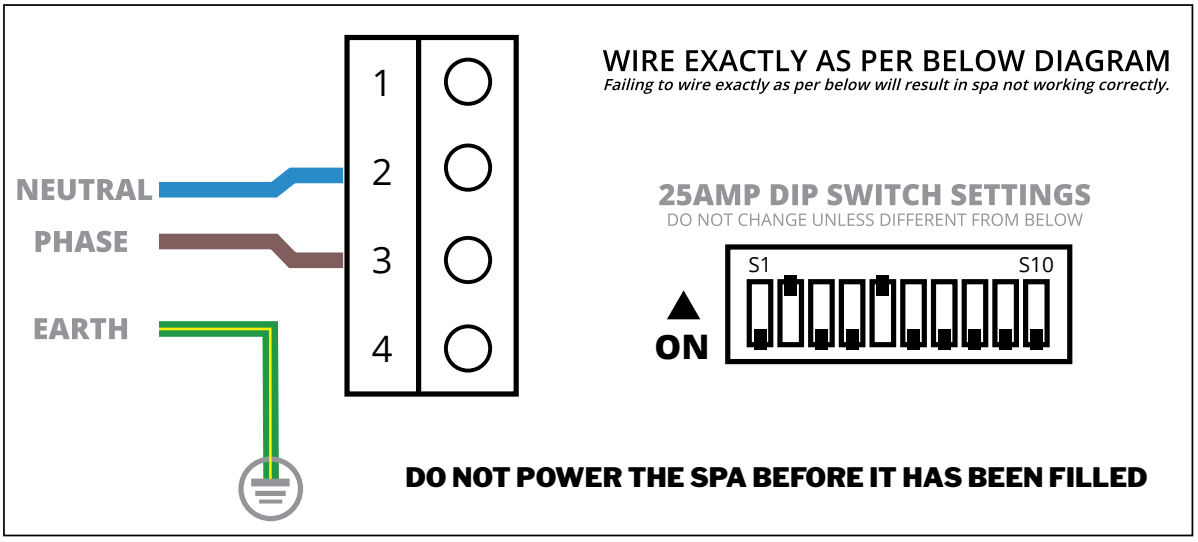
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	25amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAM IS FOR SINGLE PHASE 25A CONNECTION.
DIP SWITCHES ARE PRESET & SHOULD NOT NEED ALTERING.

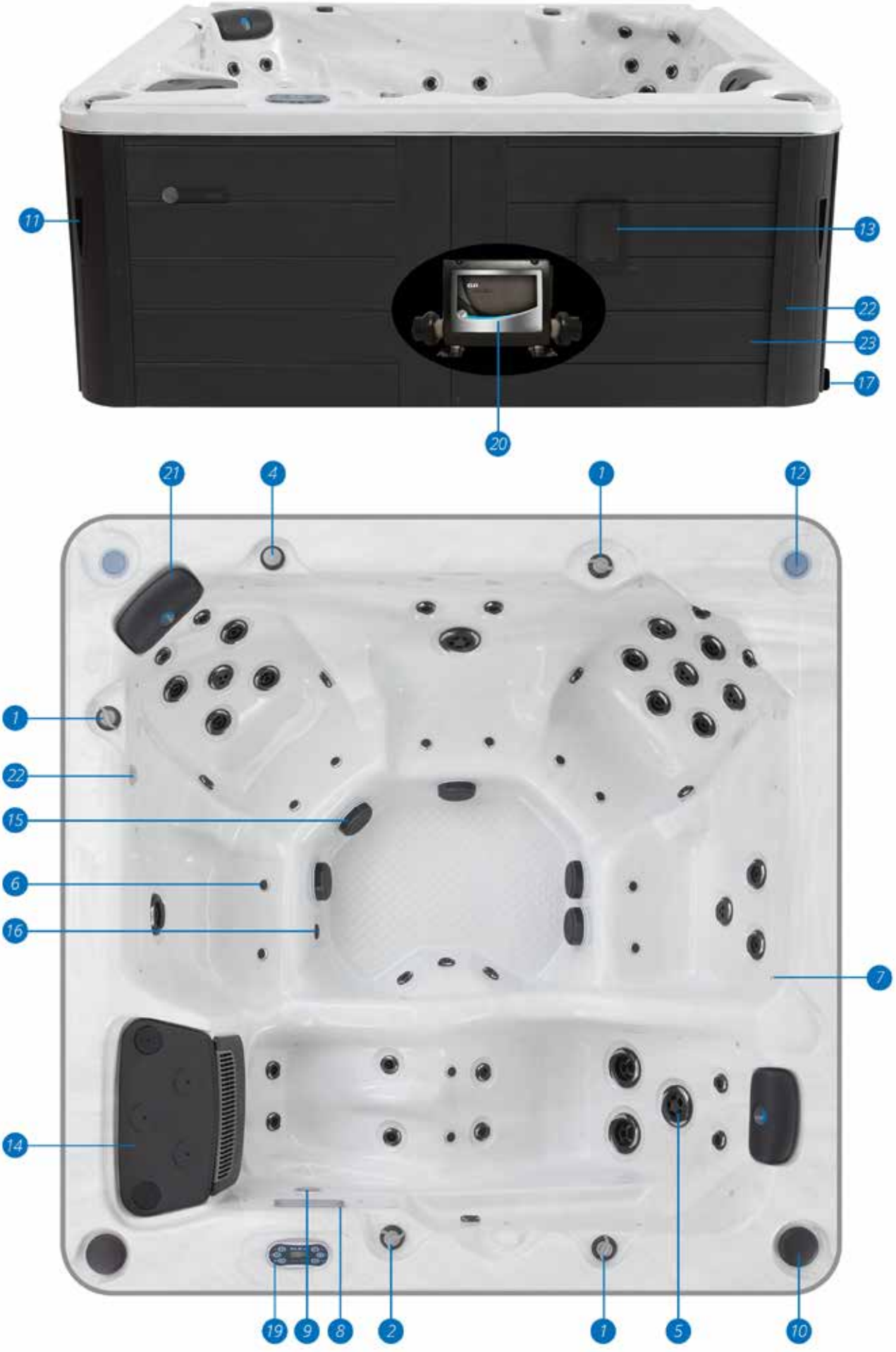


Wiring of a three phase connection is available, contact us for more information.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81



VANCOUVER SPA POOL OVERVIEW

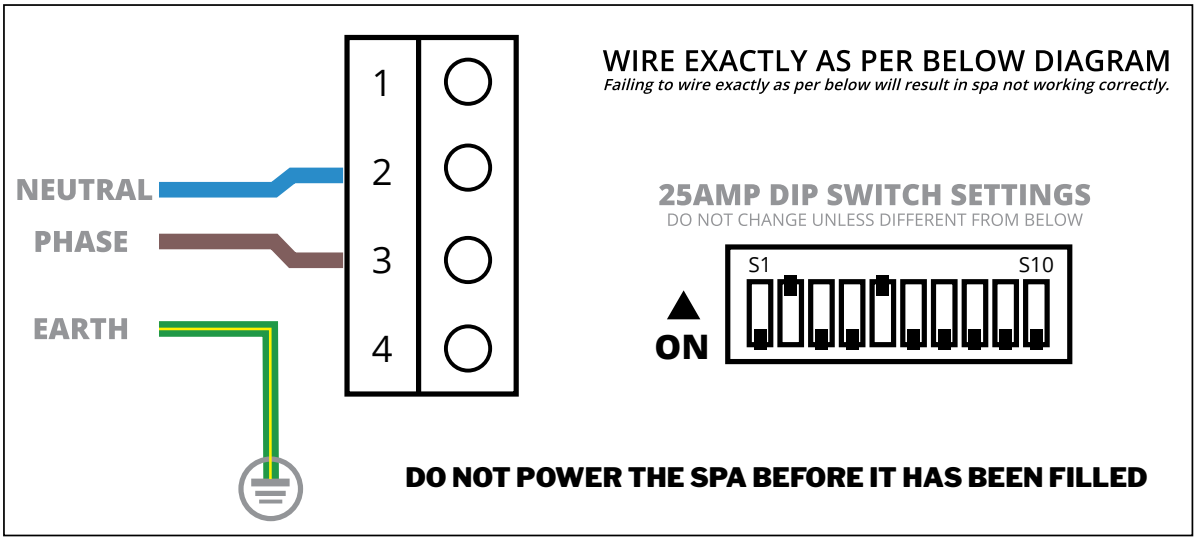
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	25amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAM IS FOR SINGLE PHASE 25A CONNECTION.
DIP SWITCHES ARE PRESET & SHOULD NOT NEED ALTERING.



Wiring of a three phase connection is available, contact us for more information.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





MUNRO SPA POOL OVERVIEW

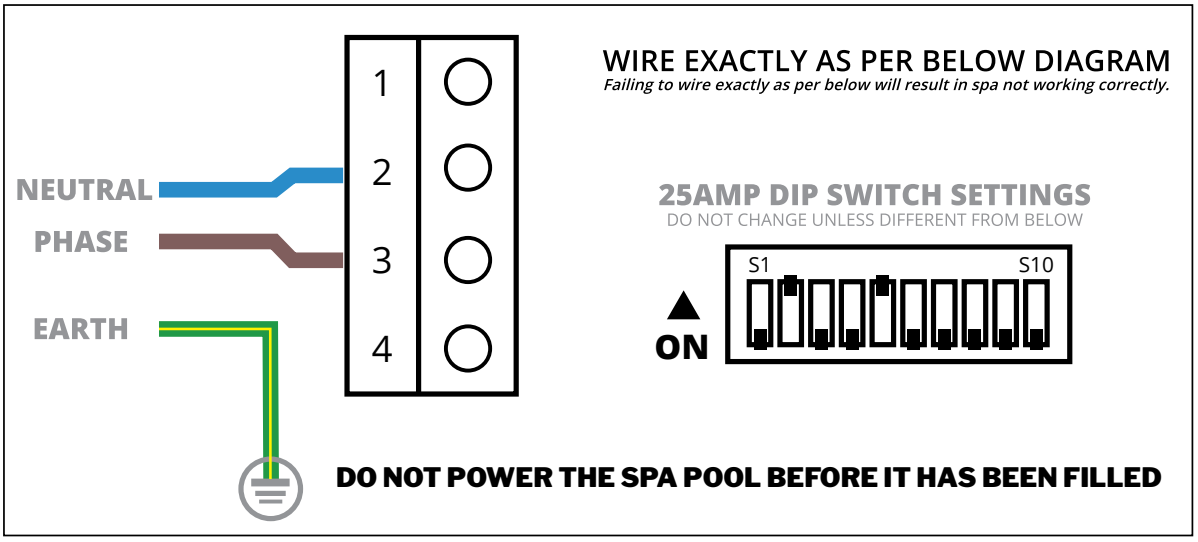
Components:

Spa Pool Controller	Balboa BP6013H
Topside Control Panel	Balboa TP600
Heater Element	3KW
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	25amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAM IS FOR SINGLE PHASE 25A CONNECTION.
DIP SWITCHES ARE PRESET & SHOULD NOT NEED ALTERING.



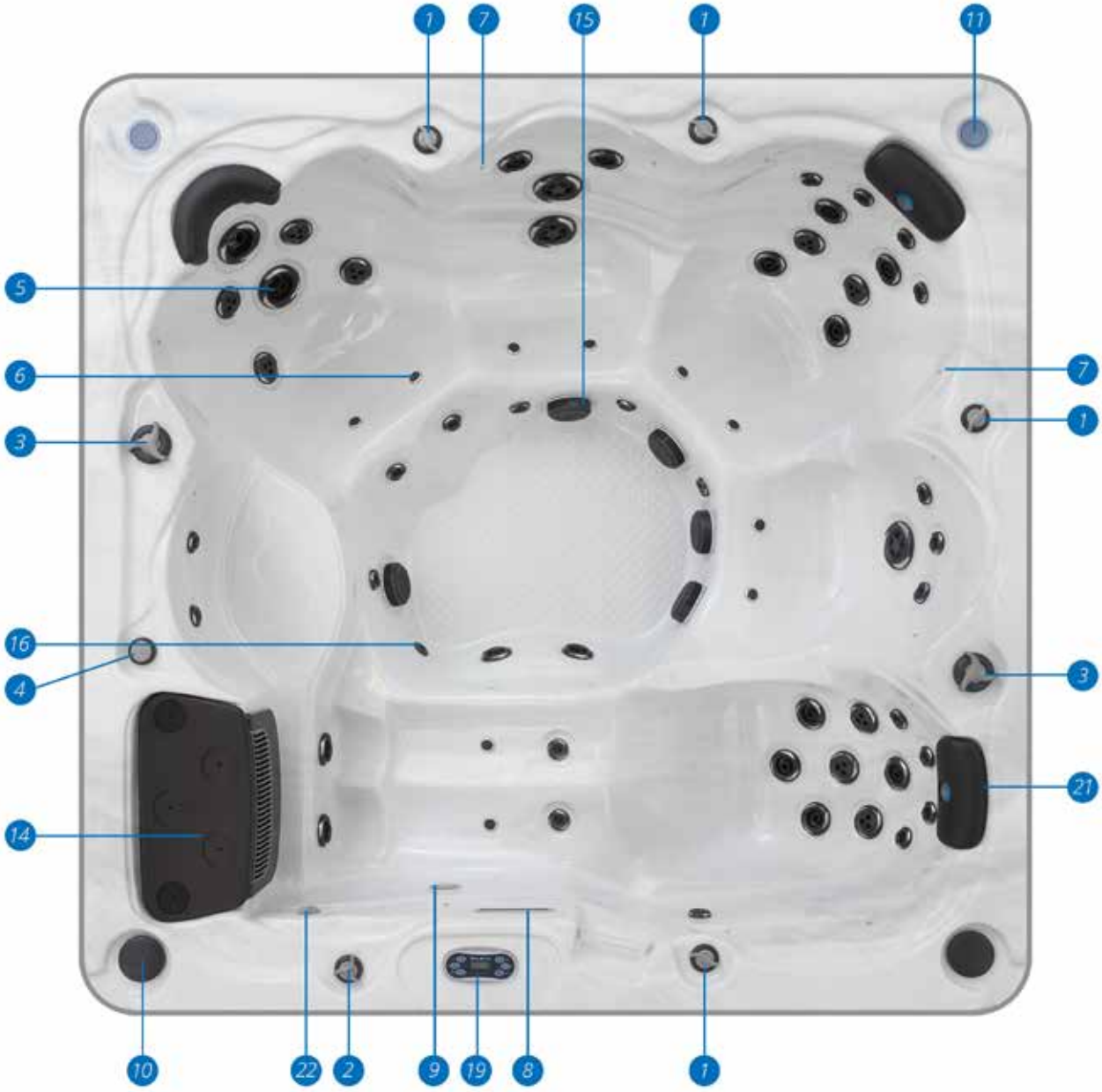
Wiring of a three phase connection is available, contact us for more information.

Locating the Controller

Remove the cabinet panels from the side of the spa pool that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





EVEREST SPA POOL OVERVIEW

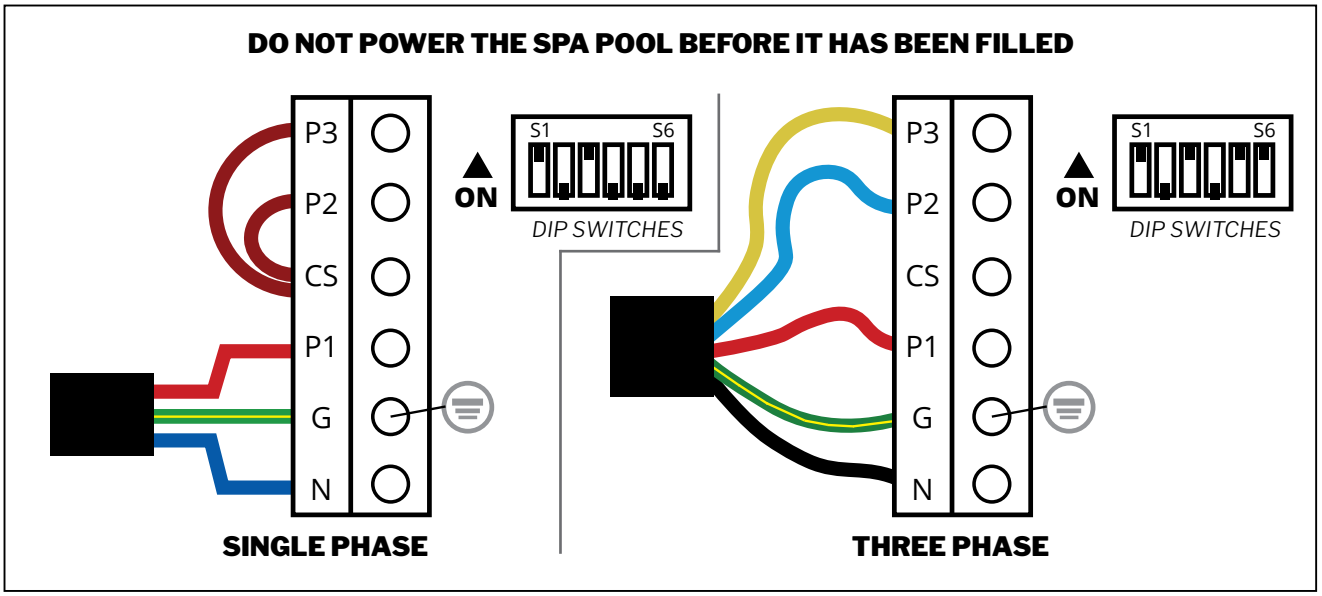
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.

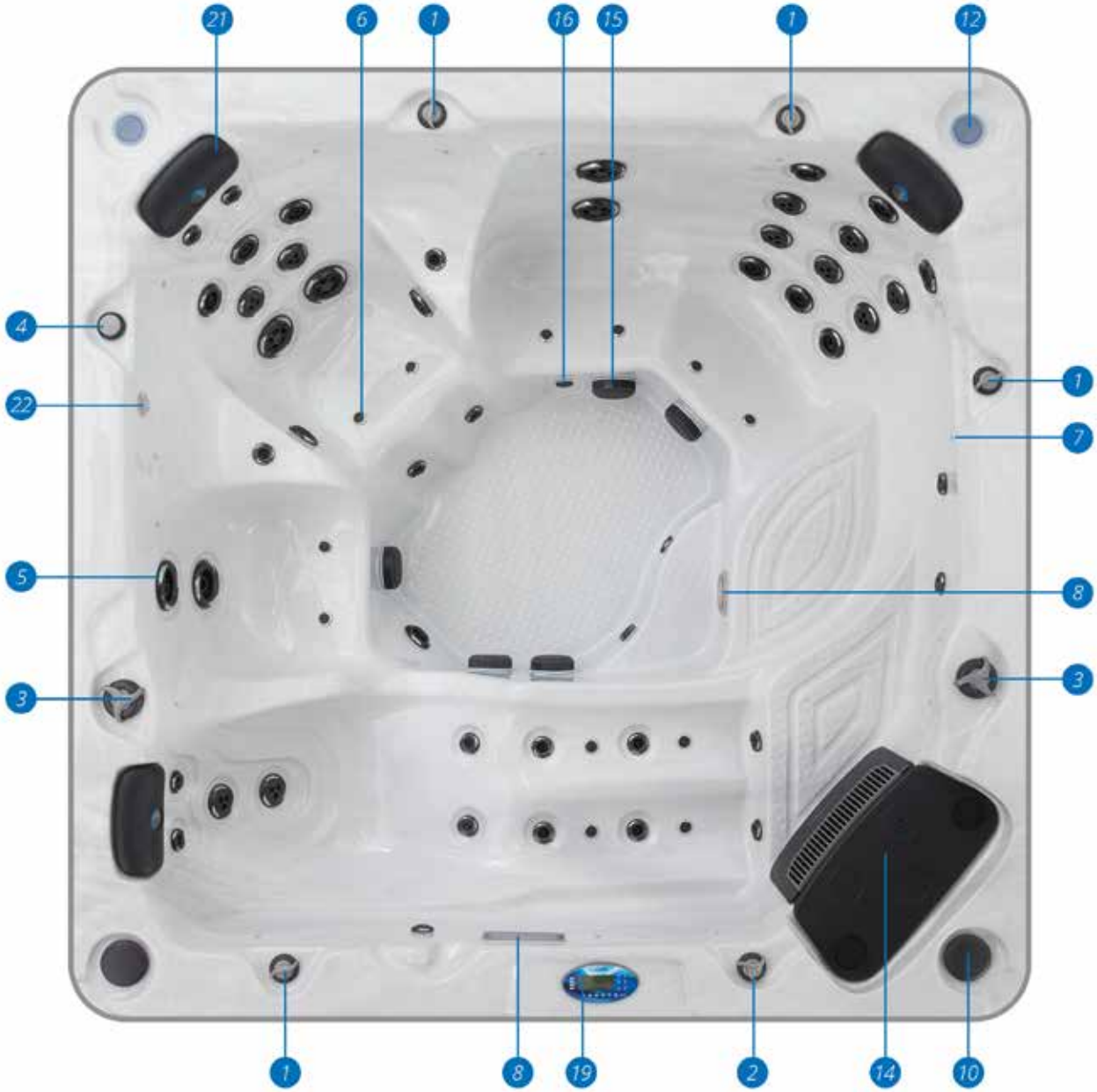


Locating the Controller

Remove the cabinet panels from the side of the spa pool that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





K2 SPA POOL OVERVIEW

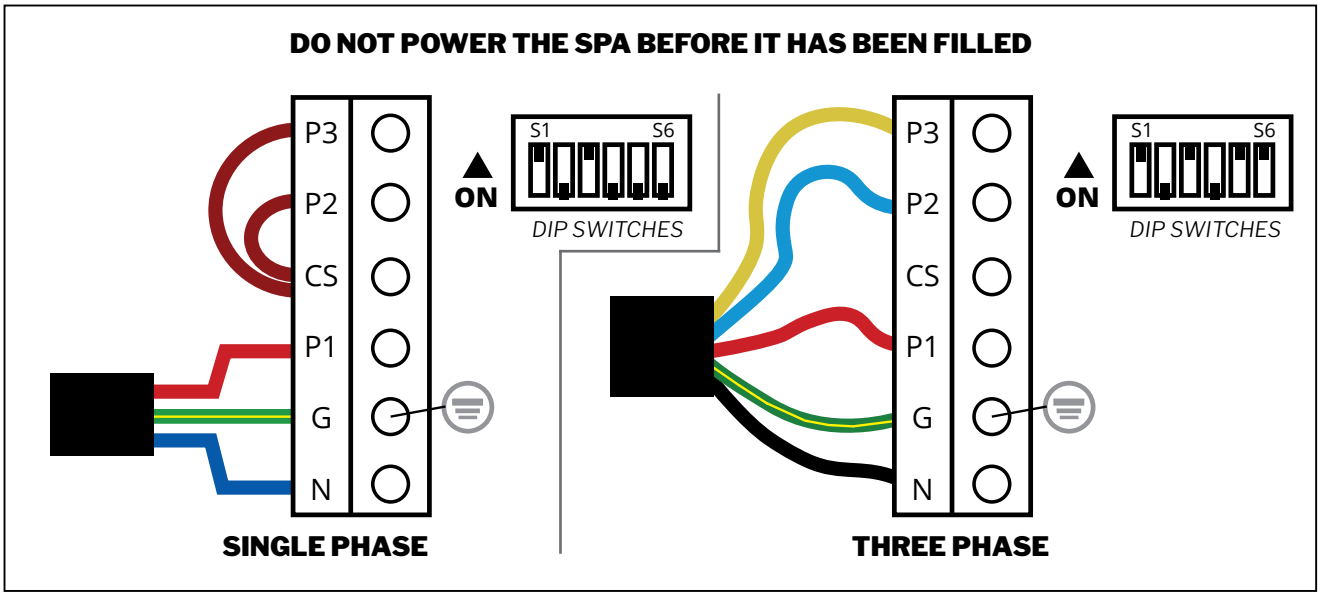
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Grate Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





CUB SPA POOL OVERVIEW

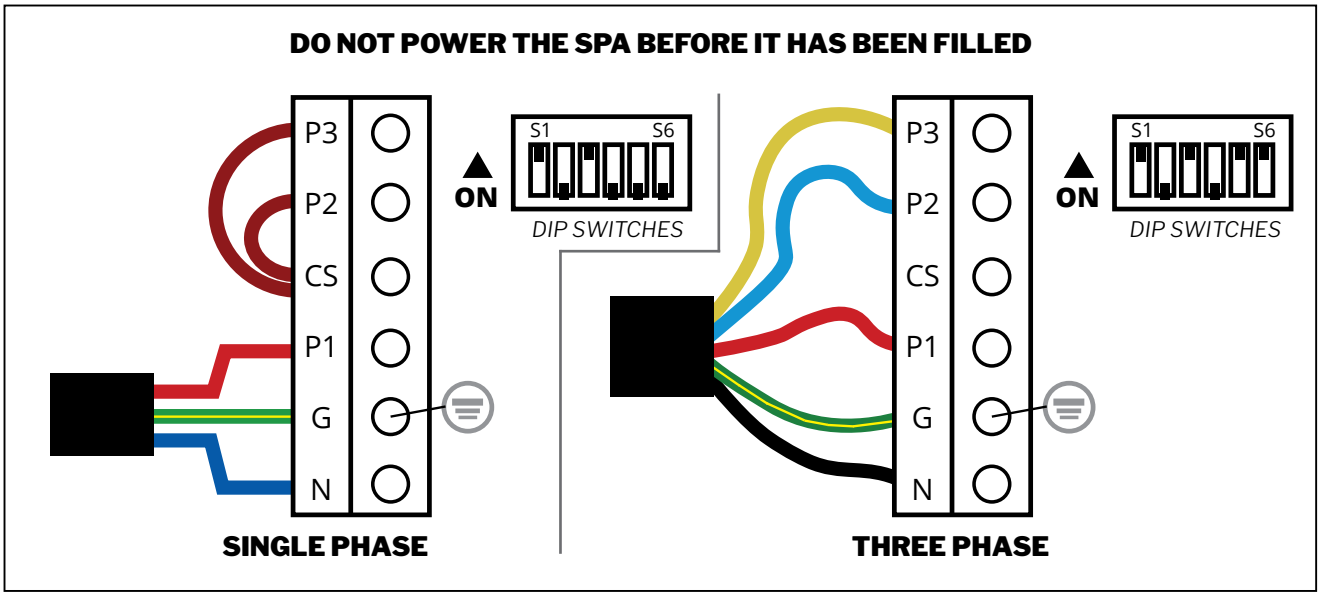
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Floating Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

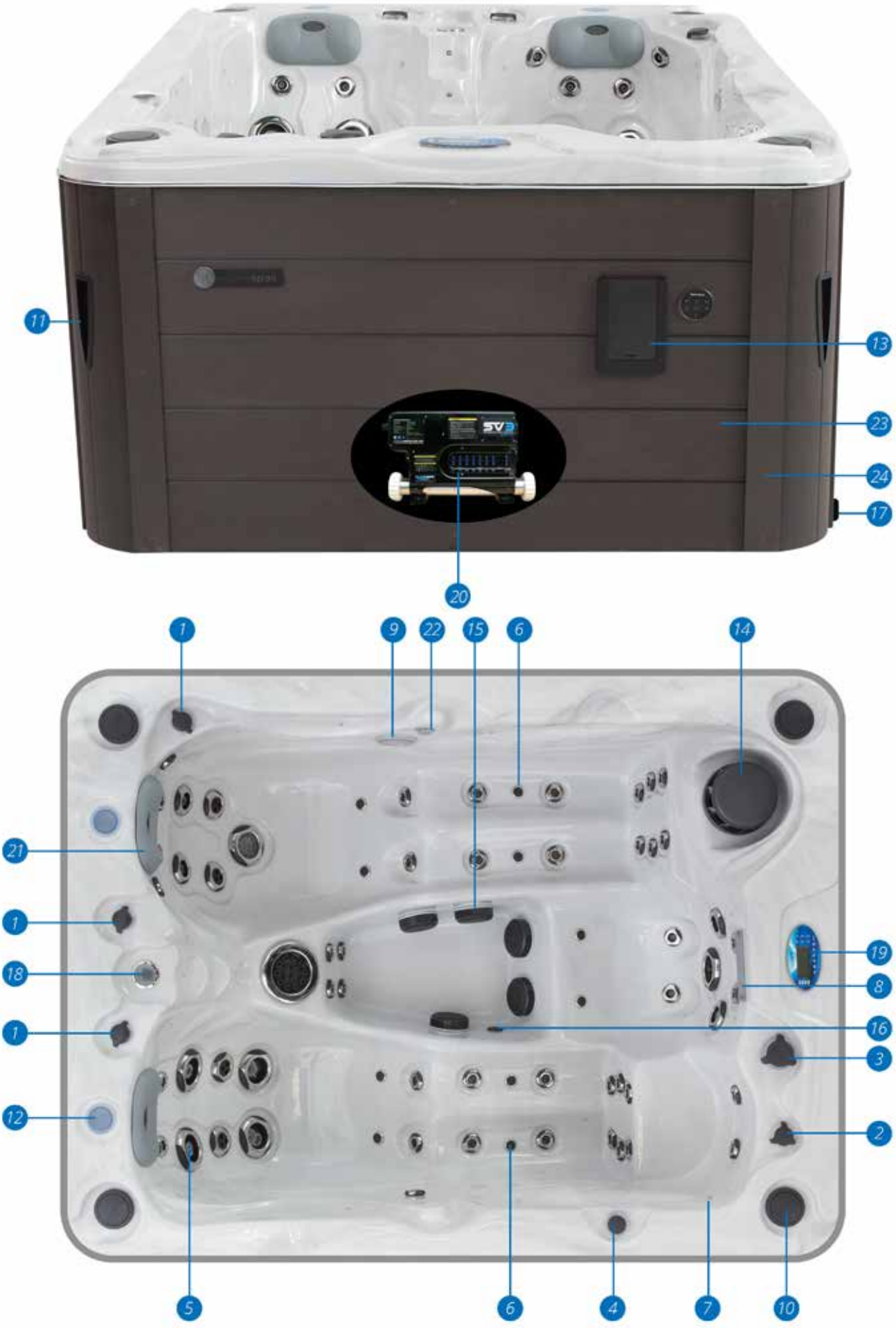
BELOW DIAGRAMS ARE FOR 32A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81



FRONTIER SPA POOL OVERVIEW

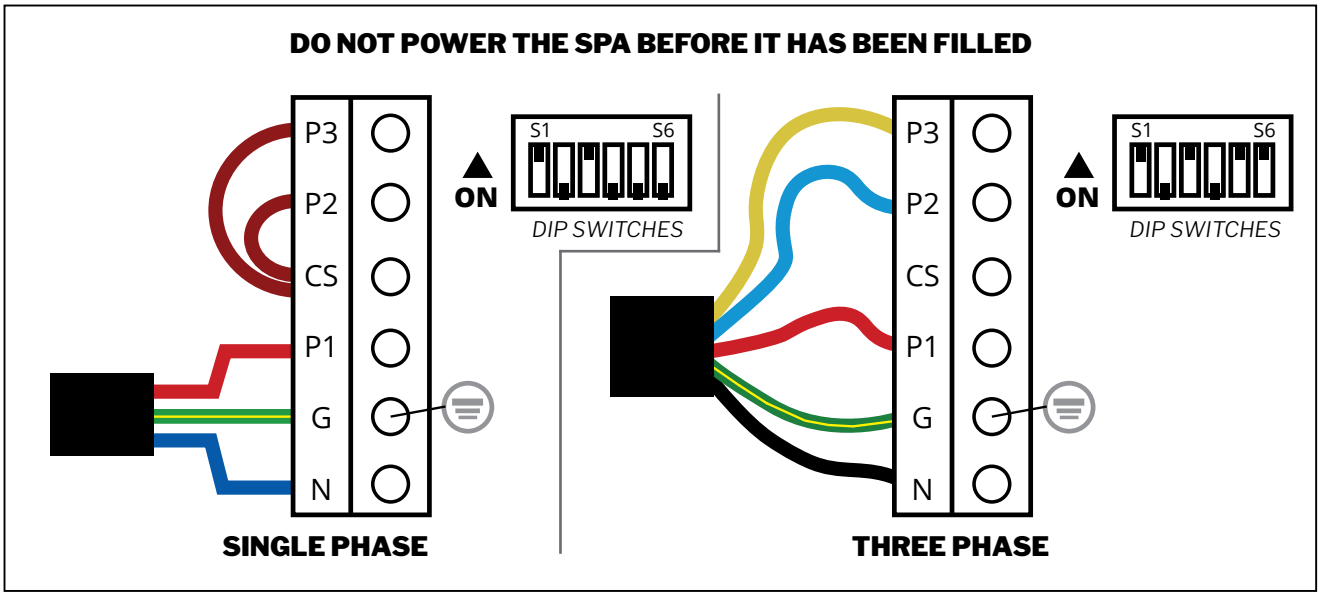
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 2x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Floating Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





OASIS SPA POOL OVERVIEW

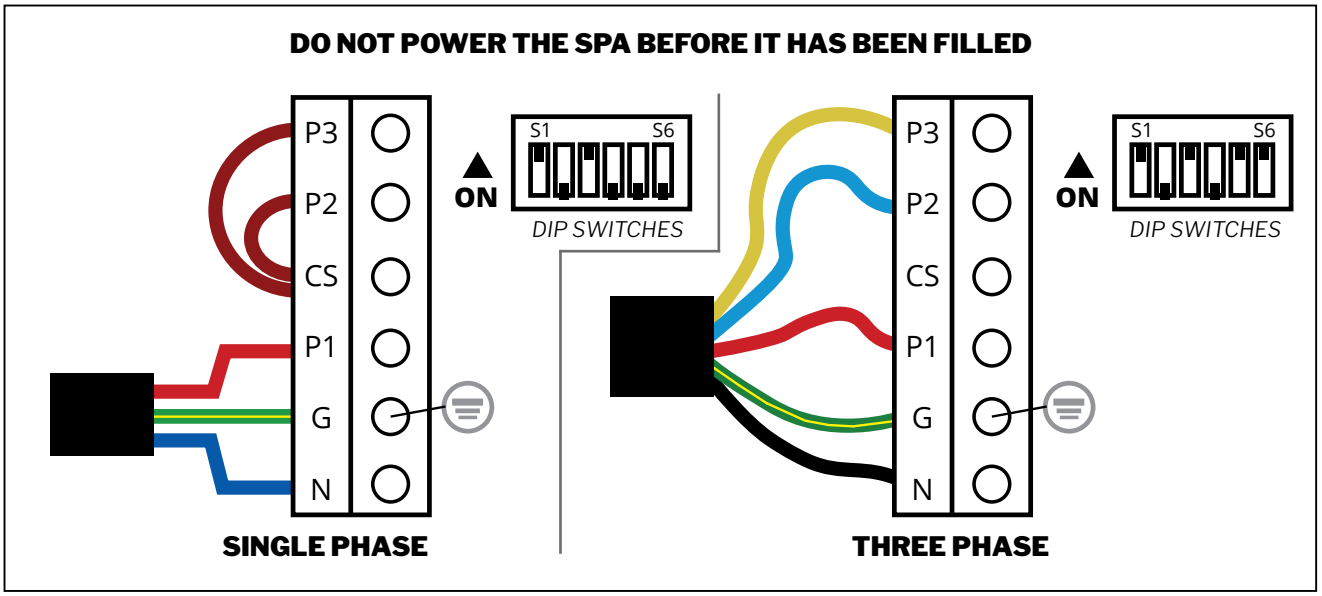
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 3x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	2x Floating Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps - 45amps. 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A - 45A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



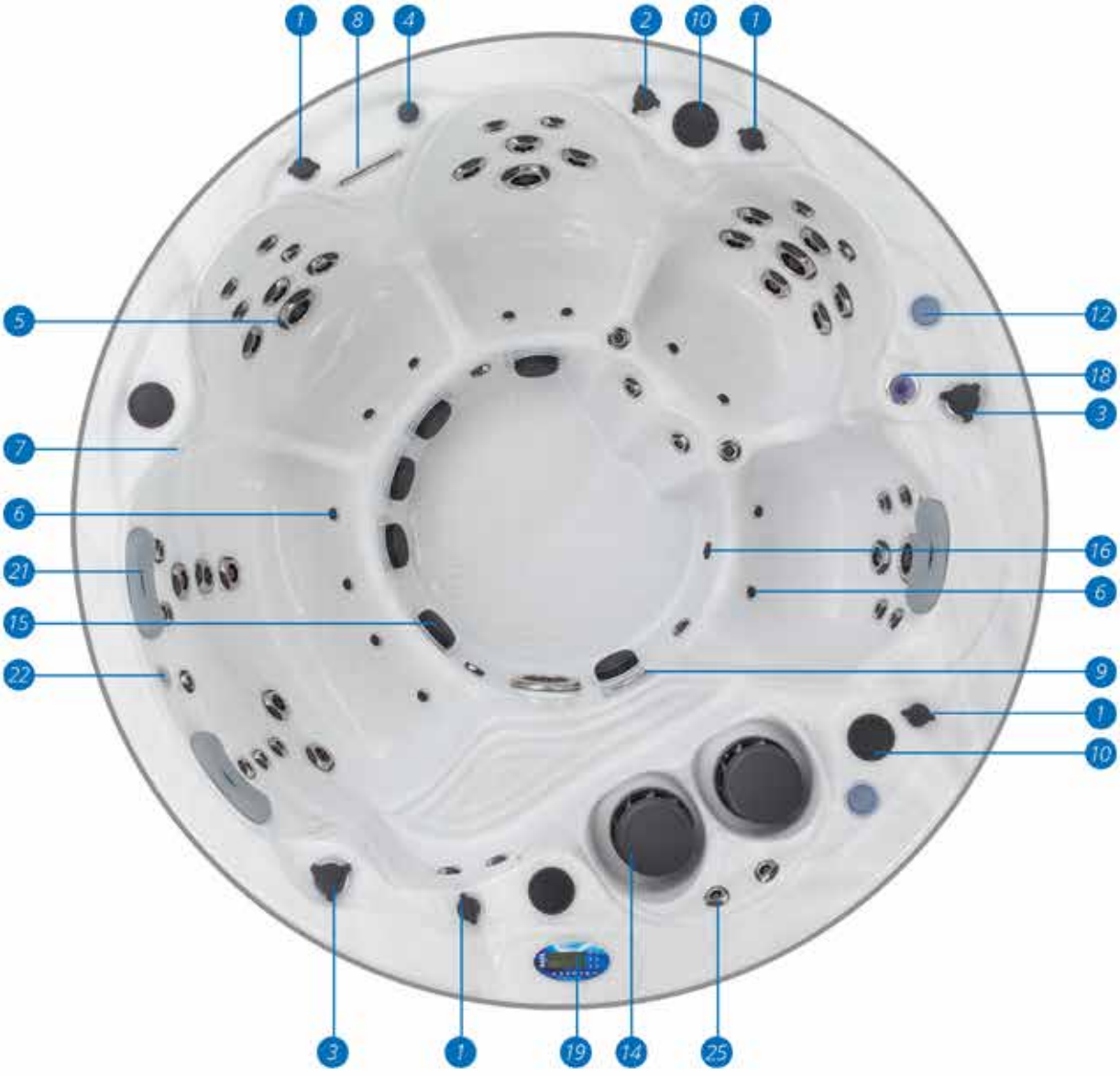
A 32amp connection will require load shed/limiting for the components as they cannot all run simultaneously. See the SpaNet user guide for more information. A 45amp connection provides power for all components to run.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





ARCTIC SPA POOL OVERVIEW

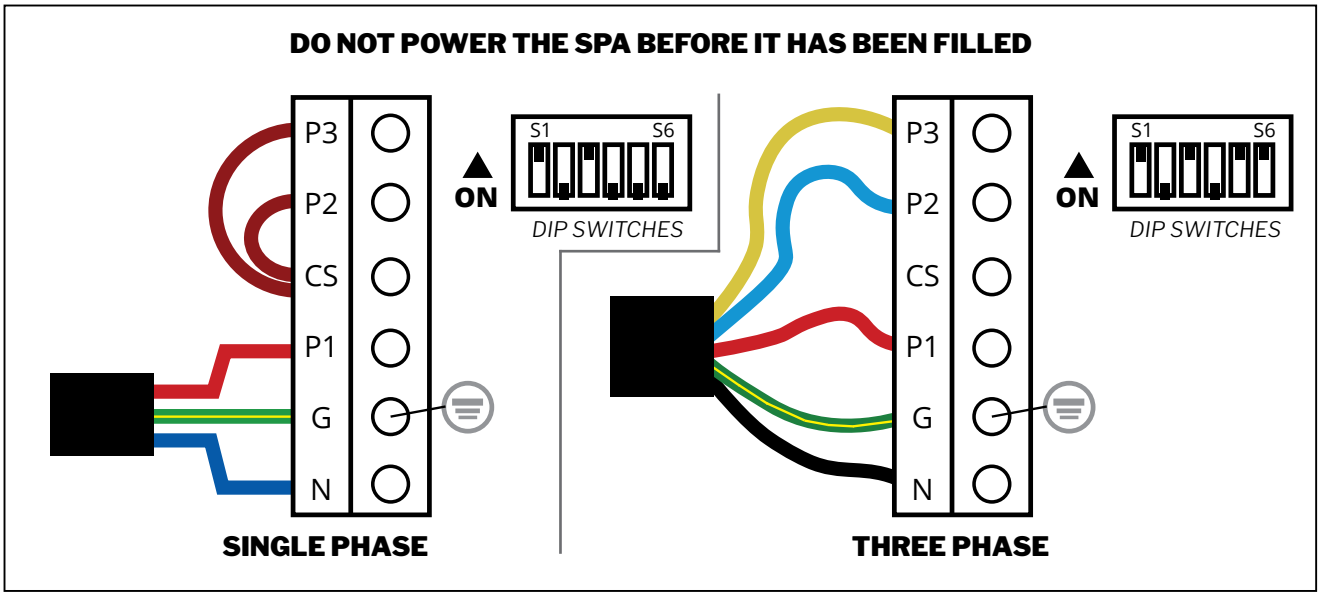
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 3x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	2x Floating Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps - 45amps. 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A - 45A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



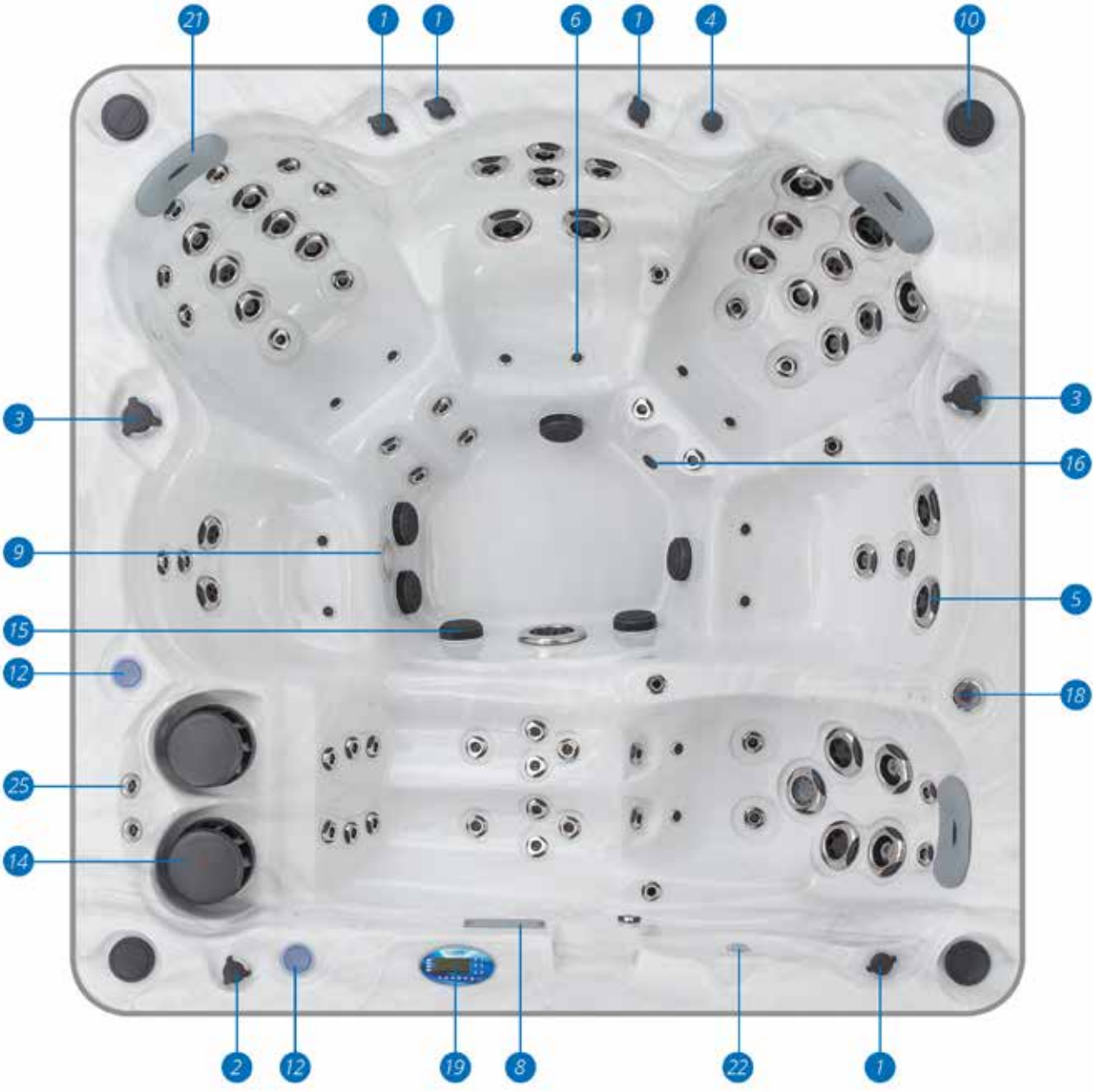
A 32amp connection will require load shed/limiting for the components as they cannot all run simultaneously. See the SpaNet user guide for more information. A 45amp connection provides power for all components to run.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





GLACIER SPA POOL OVERVIEW

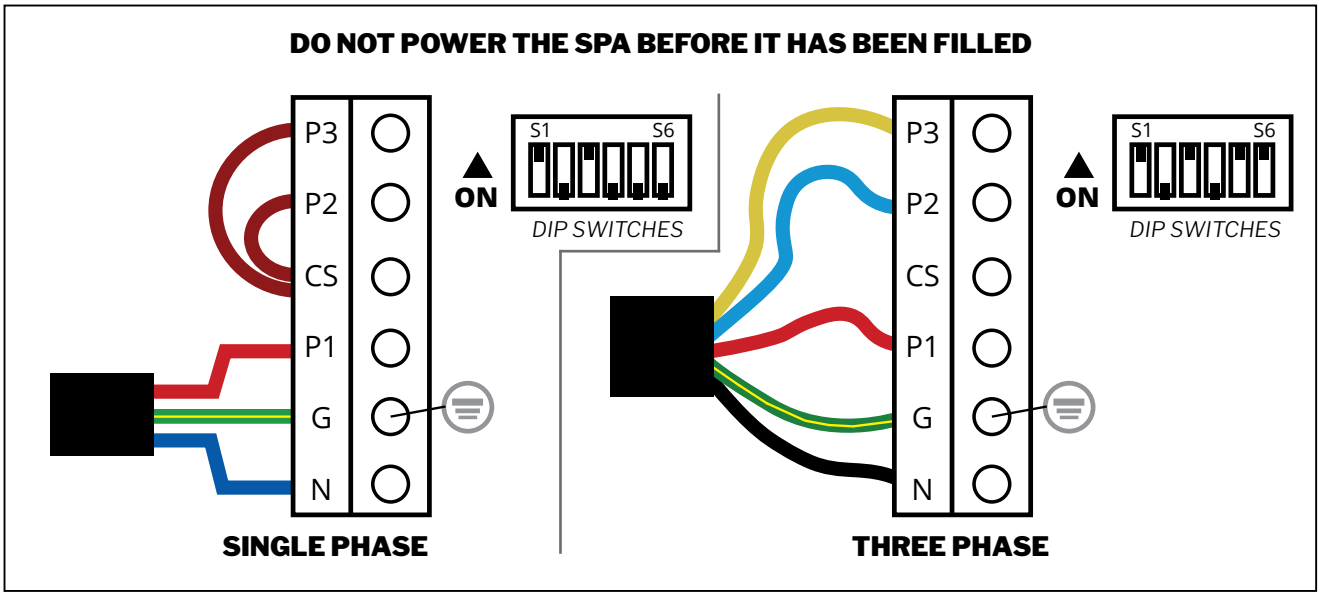
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 3x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	2x Floating Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps - 45amps. 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A - 45A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.

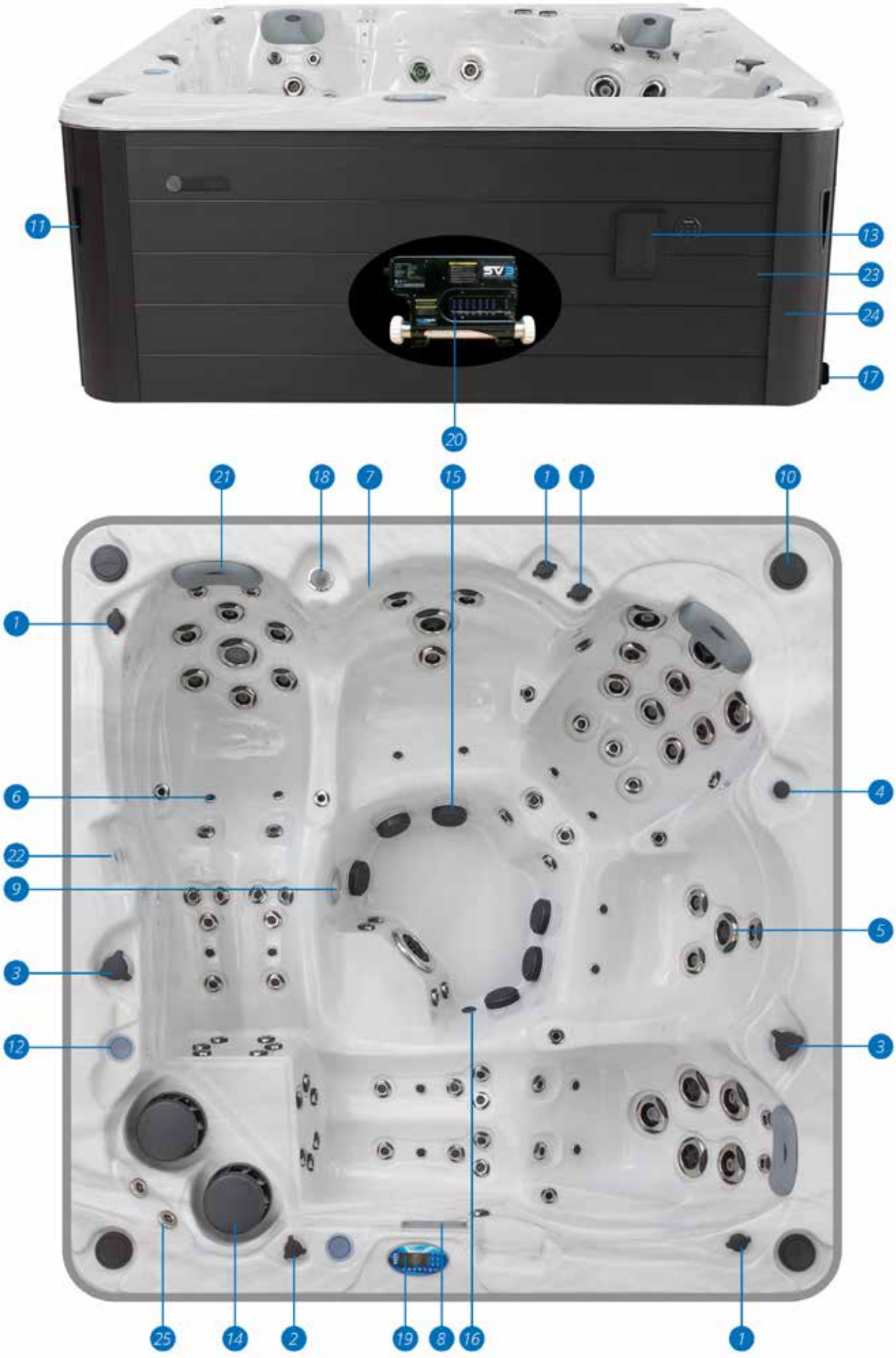


A 32amp connection will require load shed/limiting for the components as they cannot all run simultaneously. See the SpaNet user guide for more information. A 45amp connection provides power for all components to run.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81



ENTERTAINER X80 SPA POOL OVERVIEW

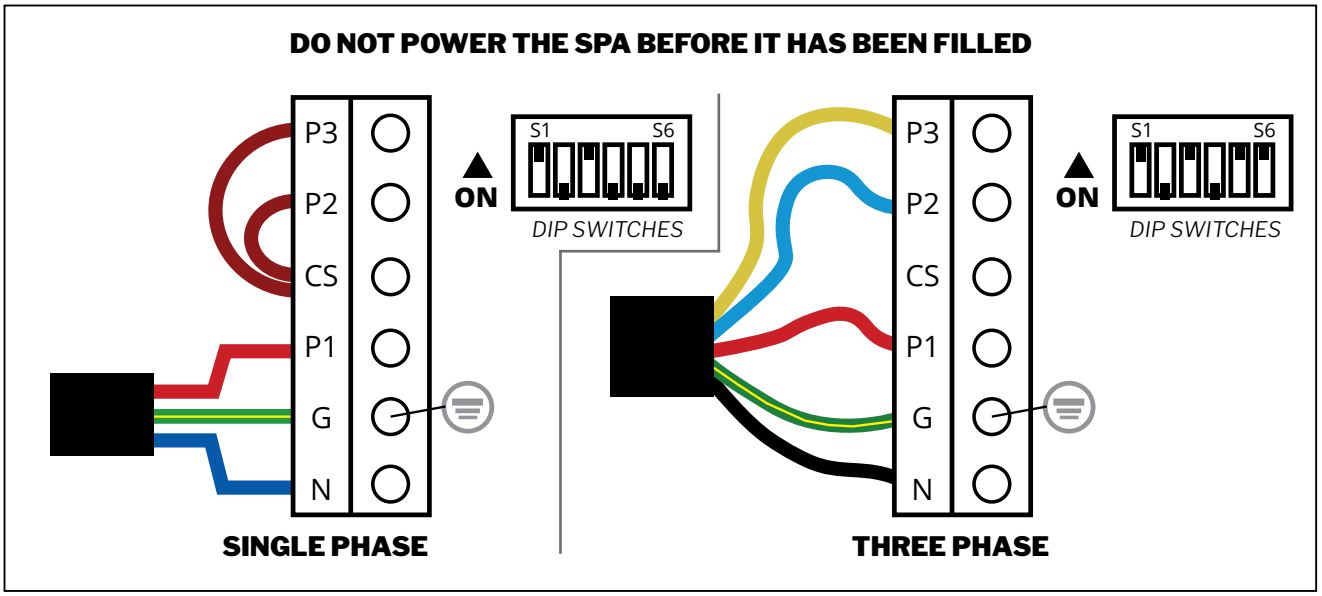
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 3x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Standard Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps - 45amps. 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A - 45A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



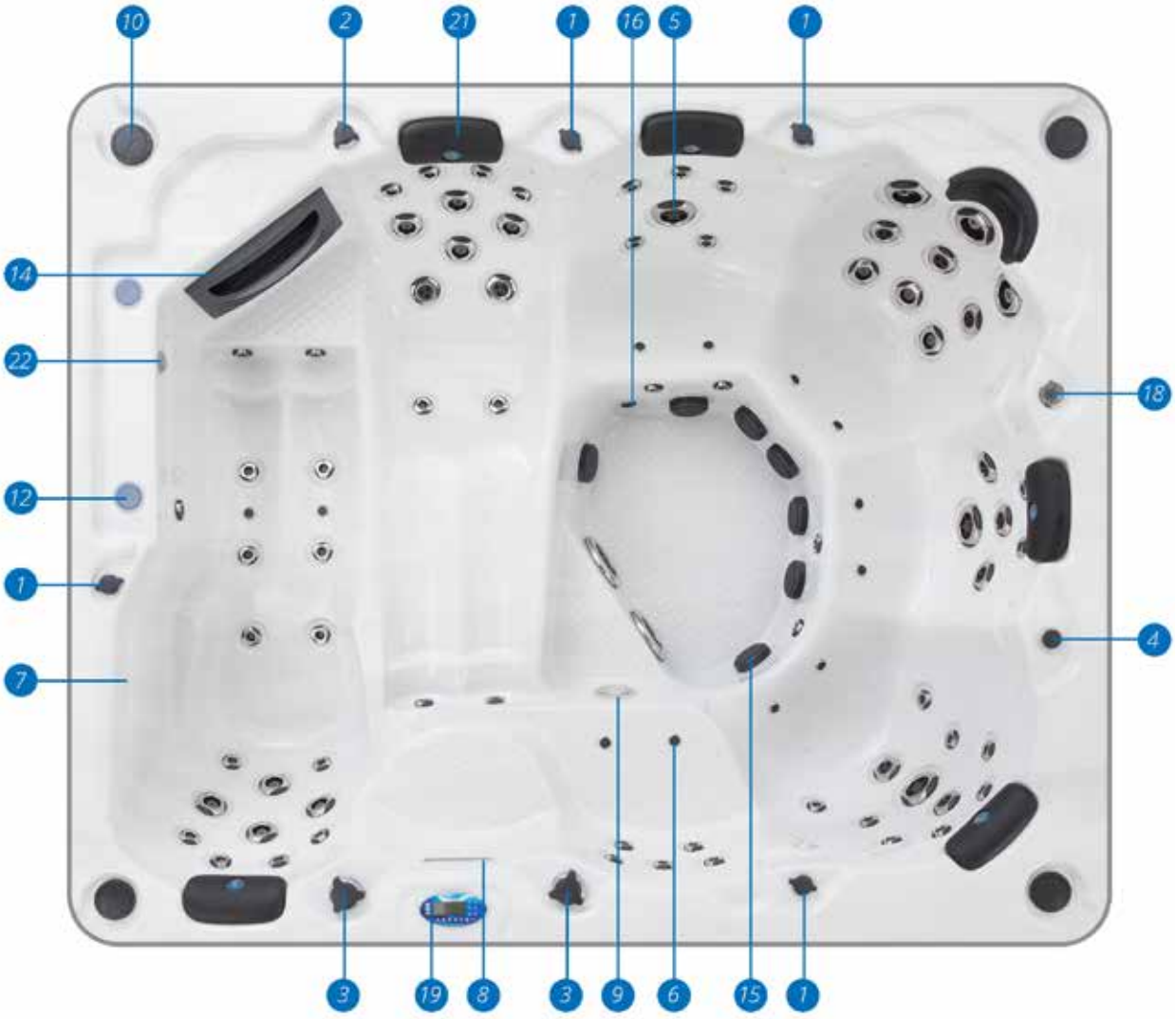
A 32amp connection will require load shed/limiting for the components as they cannot all run simultaneously. See the SpaNet user guide for more information. A 45amp connection provides power for all components to run.

Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81





ENTERTAINER X90 SPA POOL OVERVIEW

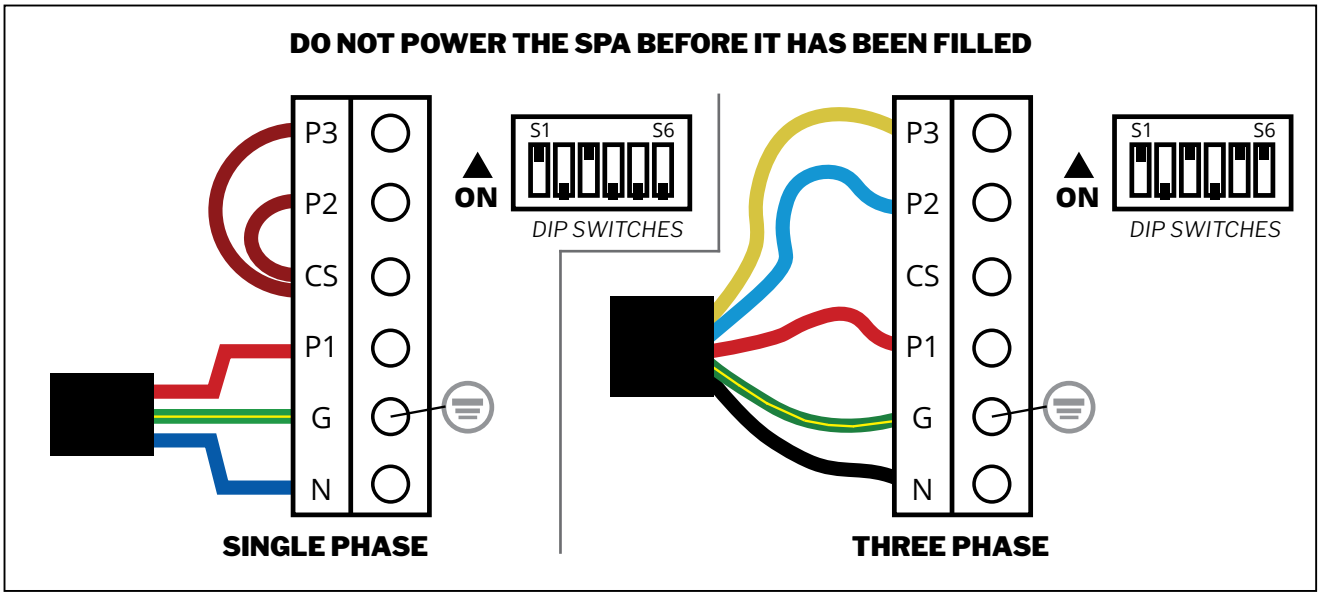
Components:

Spa Pool Controller	SpaNet SV3-VH
Topside Control Panel	SpaNet SV3-VH
Heater Element	6KW (Variable)
Pumps	1x Circulation Pump + 3x Jet Massage Pump (3HP) + Air Blower
Skimmer/Filter Type	Standard Weir Filter
Sanitizers	Ozone, Ultra-Violet
Electrical Info	32amps - 45amps. 230 - 240V AC 50hz IPX5
Cable	No Cable - Hardwiring Required.

Hardwire Required:

This spa pool requires direct hardwiring from the circuit board to the system controller with suitable electrical cable.

BELOW DIAGRAMS ARE FOR 32A - 45A CONNECTIONS.
DIP SWITCHES ARE PRESET FOR SINGLE PHASE.



A 32amp connection will require load shed/limiting for the components as they cannot all run simultaneously. See the SpaNet user guide for more information. A 45amp connection provides power for all components to run.

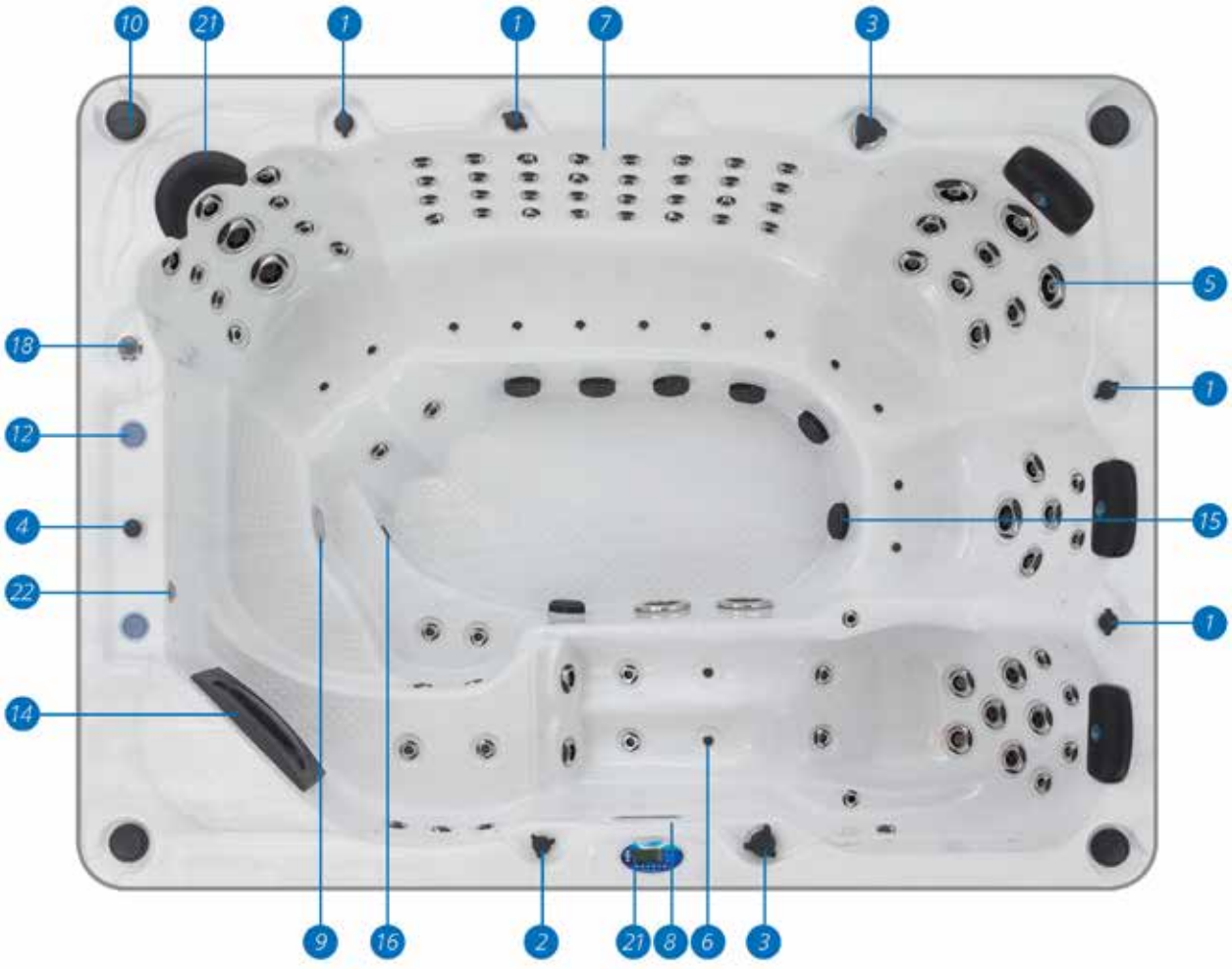
Locating the Controller

Remove the cabinet panels from the side of the spa that houses the controller (see following picture for exact location).

Identify labeled parts on pages 78 - 81

Controller located behind left hand side middle cabinet panel





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 WATERFALL CONTROL DIAL

This smaller three pin valve is used to adjust the flow rate of the waterfall and fountains (if equipped). To turn off - simply twist clockwise until fully closed and reverse this process to turn on. Be careful not to overturn the dial and force it past it's natural stopping point.



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 AROMATHERAPY

Unscrewing the aromatherapy cap provides a slot for your aromatherapy cannister. When the air-blower runs, the fragrance will be drawn through the air system and bubbles to the surface of the water for you to enjoy.



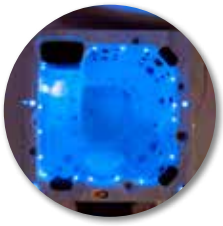
5 MASSAGE JETS

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.



6 AIR JETS

Air jets are located around the bottom of the seats and are activated by the air blower. Be wary not to over-use the air blower as it will inject cold air (cooler than the current water temperature) into the spa pool, cooling the water.



7 LED PERIMETER LIGHTING

There is a perimeter of mini LED lights surrounding the top inner edge of the acrylic. These can be switched between various colour options and modes by using the topside control panel. The LED line is a good indicator of how high your water level should be.



8 LED WATERFALL

A back-lit waterfall produces a steady stream of water and illuminates with the colour of the chosen LED setting. This can be turned on and off using the waterfall control dial.



9 LED FLOODLIGHT

A large LED floodlight sits below the waterline, tinting the water to the selected LED colour while syncing with the rest of the lighting package.



10 LED SPEAKERS

Pop-up speakers mounted in the corners of the spa pool acrylic will play music when a device is plugged into the docking station (located on outside of the spa pool) see part #13. Standard spa pools use a 3.5mm aux connection while platinum models require a Bluetooth connection.



11 LED CORNER LIGHT

On standard models, two LED corner lights provide illumination on the external cabinet, enhancing the aesthetics of your spa pool at night time. Platinum models have a light on all four corners.



12 LED CUP-HOLDER

Select models have a flat illuminated cup-holder space to place your favourite drink.



13 AUDIO DOCKING STATION

The waterproof docking station houses your device while you connect it to the audio system via the 3.5mm aux cord. Platinum spa pools have an additional music control pad to connect with Bluetooth and change tracks and volume.



14 SKIMMER BOX

The skimmer box houses your filter(s) which water is drawn through when the circulation pump is engaged. (Floating weir skimmer pictured, see pages 12-13 for model specific skimmer box examples).

SPA POOL PARTS LABELED - CONTINUED



15 PUMP INTAKES

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



16 INTERNAL DRAIN

The spa pool water drains out this port when the external drain valve is released. Small Ozone bubbles may emit from this piece from time to time - this is a normal function.



17 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 88.



18 FOUNTAIN

Select models have fountains which pop up and run in conjunction with the waterfall. They are illuminated with an LED light as part of the lighting package. It is controlled via the waterfall control dial.



19 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.



20 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.



21 HEADREST

Select hydrotherapy seats have headrests as a comfort option to add to the relaxation experience. Some headrests have LED lights behind to illuminate the area.



22 VACUUM BREAK

This is a user safety feature which ensures that the suction inside the spa pool is halted if a intake is blocked for any reason.



23 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.



24 VERTICAL SLAT

The multiple vertical slats hold the cabinet panels to the framing of the spa pool.



25 WATER SPOUT

Select models have water spout jet pieces which pop up and run in conjunction with the waterfall. They are illuminated with an LED light as part of the lighting package. It is controlled via the waterfall control dial - see part #2.

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

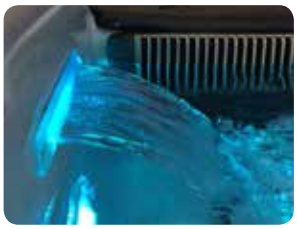
Turning these dials on will inject air flow into selected jets to increase their pressure. You will notice the water stream becomes aerated when functioning. The seat located closest to the dial is usually the one to receive the boost. We recommend to turn off these valves when you exit the pool.



WATERFALL CONTROL

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 OR anytime a pump is engaged.



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. If no water is flowing but the valve is open, activate a pump to engage flow.



NOTE: *Platinum dials and jets will have a slightly different appearance (translucent plastic) as select pieces are back-lit with LED lights.*

AIR BLOWER

Air Blower Operation

The air blower is activated via the button on the topside control panel. This will bubble air from the air-jets found in the bottom of the spa pool.



It is completely normal for the air to feel cool when you run the air blower. This is because the temperature of the air is lower than the temperature of the water (and your body temperature) and will it feel cooler in comparison when it touches your skin. Use the blower sparingly.

AROMATHERAPY

Aromatherapy

An aromatherapy system built into the spa pool (select models) utilizes the air blower to disperse fragrance to the surface of the water for you to enjoy while soaking.

WARNING:

- Do not run the air blower with the aromatherapy cap unscrewed/removed.
- Use only Alpine Spas fragrance beads inside the white cannister.
- Never place anything except for the cannister inside aromatherapy holder.
- Do not pour beads into spa pool or anywhere else except for the white cannister.

Carefully follow these instructions to use the aromatherapy function:



Open your aromatherapy packet and take out the packet of fragrance beads and white cannister.



Remove the cap from the white cannister and open the fragrance beads. Pour the beads into the canister.



Replace the lid on the cannister tightly by pressing it down.



Open the aromatherapy cap by unscrewing anti-clockwise. Place the cannister inside.



Ensure the cannister sits comfortably inside like so.



Replace the aromatherapy cap by screwing clockwise. Run the air blower from the control panel to activate the system.

LED LIGHTS

BALBOA Control Panel

Activate the LED lights by pressing the 'LIGHT' button found on the topside control panel. Continue to cycle through the available colours and modes by pressing the button multiple times. Every second press will turn the lights off.



LIGHT

SPANET Control Panel

Activate the LED lights by pressing the 'LIGHT' button found on the top-side control panel. Change the modes by pressing the 'MODE' button, and then using the 'UP', 'DOWN' and 'OK' buttons to select desired option.

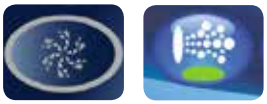


LIGHT *MODE* *UP* *DOWN* *OK*

JETS

Activating the Jets

To turn on a jet pump - press the these buttons on the control panel.



BALBOA JET *SPANET JET*

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 may need to remove a jet piece to clean behind it (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.

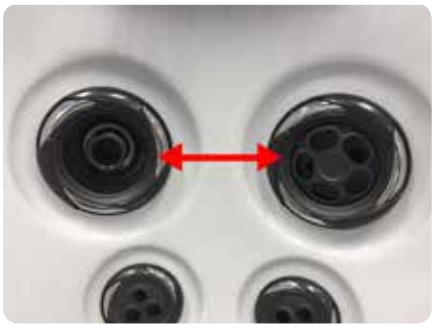


The jet piece should pop out and be able to be removed, exposing the jet body.

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

SOUND SYSTEM (AUX)

(MAKALU, SUMMIT, MATTERHORN, LUCANIA, MCKINLEY, VANCOUVER)

Overview

The above spa pool models include a sound system made up of two pop-up LED speakers, an amplifier and a 3.5mm auxiliary cord located inside the waterproof docking station.

Operating the Speakers

The LED speakers are spring loaded and can be 'popped up' by gently pressing them down and releasing. They can also be rotated by twisting them to face the desired direction - be careful not to force the speaker past its point of resistance.



Connecting a Device

Slide up the front panel on the waterproof docking station - this is located on the front side of the spa pool cabinet. Inside the dock is a auxiliary connection with a 3.5mm headphone jack. This will fit standard mp3 players, cell-phones and other such audio devices.



Audio Docking Station

Playing Music

Switch on the sound system by pressing the power button located inside the docking station in the top right corner. The power symbol should light up red to indicate power is ON. Adjusting volume and changing tracks can only be controlled via the connected device.



NOTE: *If the music does not play, check the on/off power button has been properly turned on inside the docking station as above.*

SOUND SYSTEM (BLUETOOTH)

(MUNRO, EVEREST, K2, CUB, FRONTIER, OASIS, ARCTIC, GLACIER, ENTERTAINER X80, ENTERTAINER X90)

Overview

The above spa pool models include a sound system made up of two or four pop-up LED speakers, an amplifier, a sub-woofer* and a Bluetooth music control unit located beside the waterproof docking station.

Operating the Speakers

The LED speakers are spring loaded and can be 'popped up' by gently pressing them down and releasing. They can also be rotated by twisting them to face the desired direction - be careful not to force the speaker past its point of resistance.



Connecting a Device

Press the on button located on the music control unit - it should light up and flash the LED indicator blue. Activate Bluetooth on the device you wish to connect and look for 'BT AUDIO' in your device's 'nearby devices' list. An audio beep will be heard through the speakers when the device is successfully connected.



Music Control Unit

Playing Music

You can use either your device or the music control unit on the spa pool cabinet to adjust the volume and change the track. A control for the sub-woofer is located inside the docking station* where you can also place your device for waterproof protection while soaking. .



Audio Docking Station



Sub Control

NOTE: **The Munro, Everest and K2 models do not include a sub-woofer.*

DRAINING THE SPA POOL

Operating the Drain Valve

The external drain valve consists of a simple turn & lock mechanism and an inner twist cap. Water will not flow out of the drain unless it is in the 'flow open' position and the inner twist cap has been unscrewed.



Flow locked

(Extended position)



Flow open

(Retracted position
Inner twist cap still to be undone)

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' found in your iPack, along with accessories to help drain the water.

TURN OFF POWER TO THE SPA POOL BEFORE ATTEMPTING TO DRAIN THE WATER!



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



Unthread the inner twist cap and remove it.



Thread in the hose-adapter piece.



Screw on the male-end hose attachment.



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



Push in and twist the valve anti-clockwise into the 'flow open' position (retracted) to begin draining the water.

CLEANING THE FILTERS

We recommend having a second set of filters on hand to rotate while cleaning.

Quick Clean (once per week)
Once a week, remove your filters 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 filters out of spa pool for prolonged periods of time.

Soak Filters (once per month)
Once a month, remove your filters from the spa pool and place them in a bucket of warm water. Add filter cleaning solution (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 Filters (as required)
A filter cartridge should last up to 12 months when cleaned as per this guide. Filters that are severely discoloured and become difficult to clean are signs 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.

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 THE SPA POOL 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.

A cedar cabinet can be washed down and scrubed with a soft brush if required. To prevent natural silvering of the cedar over time, a uv-protectant oil should be used every 6-12 months. The silver bands are easily removable to achieve a even coat.

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 its 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.

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.

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 Alpine Spas.

Steps to perform a 'Pipe Clean'.

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

2. Open All Jets
Ensure all jets around the spa pool are open (turn anti-clockwise).

3. Shock Dose
Remove the cover and shock dose the water to kill any existing bacteria present in the water. Wait 30 minutes before starting the next step.

4. Add 'Pipe Cleaner'
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 filters. Engage pumps again when they time-out until the foam stops accumulating in excessive amounts, while cleaning out filters in-between.

5. Leave Overnight
Place the cover back on the spa pool and leave it to circulate overnight. Clean the filters the next day, wipe the acrylic edge if required and drain the spa pool as per the drain and refill process.

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 Filters
Your spa pool operates best with a clean set of filters. Remove and wash thoroughly as per filter cleaning instructions on page 89.

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. Remove Bromine (if applicable)
Remove the bromine dispenser if you are using bromine instead of chlorine as your sanitizer. Discard the tablets and store the dispenser in a safe place.

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

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

6. 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 to 3 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 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 3+ 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 attending 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 SCHEDULE

Here's a handy checklist to help you with caring for your spa pool.

WEEKLY

- [ ] Test and balance the water
- [ ] Clean filters (quick clean process)
- [ ] Shock Dose
- [ ] Wipe down cover, cabinet and acrylic as required

MONTHLY

- [ ] Clean Filters (soak process)
- [ ] Clean Cover (dedicated clean process)

EVERY 3-4 MONTHS

- [ ] Drain and refill process (pipe clean if required)
- [ ] Clean acrylic while water is drained
- [ ] Protect cover (apply vinyl protectant)
- [ ] Check pumps and barrel unions

PUMP MAINTENANCE

You should 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 sanitizers 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.



UV SYSTEM BULB REPLACEMENT

It is a requirement of the owner to change the Ultra-Violet light bulb (if equipped) every 18 months, however like any light-bulb, there is a chance the bulb could fail before its expected lifetime is up.

The system may emit a high pitch noise if the bulb has failed. Contact Alpine Spas to purchase a new U.V bulb - the bulb carries a 12 month parts warranty.

A replacement can be installed in a number of minutes without needing to drain the spa pool. Please follow our video or photo guide found on our support page (see link below).

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 20 for more information.

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
Air Blower emits cold air	Not a fault, this is normal as air temperature is colder than water temperature	N/A
Speakers not working	Speaker power button is off Device protection case interfering	Power button sits at the top of the docking station, press to turn on (see page 86 - 87 for more info) Remove protective case from device & retry
Spa pool emits high pitch ringing noise	UV system alarm (bulb has failed)	Check for leaking around the UV chamber & replace UV bulb if necessary.
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 - BALBOA TOPSIDE CONTROL PANEL

MESSAGE	MEANING	ACTION REQUIRED
-- -- --	Water temp unknown	Wait 2 minutes for sensors to pick up temperature
TOO COLD	Water temp too cold, pumps will engage to prevent freeze	None
WATR TOO HOT	Water temp has surpassed 42 °C. Spa pool functions are temporarily disabled	Pump may be stuck on. Try resetting the power & reducing set temperature
HTR FLOW LOSS HTR FLOW FAIL HTR DRY HTR TOO HOT	Issue with water flow through the heating chamber	Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime. Once issue is resolved you may need to press any button to restart heater
NO COMM	Panel is not receiving data from the controller	May be a loose cable or incorrect port - contact tech for help
“T” appears beside temp.	System is in test mode	Removal from test mode - contact tech for help
STUK PUMP	A pump is stuck on	Contact tech for help
CHEK PH	These are automatic pre-programmed reminders which display on a periodic basis to remind you to perform an action. They are not actual indications of the current state of the spa pool or its water quality. Clear the message by pressing the up/down temperature buttons	Appears weekly as a reminder to check PH
CHEK CHEM		Appears weekly as a reminder to add sanitizer to the water
CLN FLTR		Appears monthly as a reminder to clean your filters
TEST GFCI		Appears monthly as a reminder to test your RCD (GFCI is American terminology for RCD)
CHNG WATR		Appears every 90 days as a reminder to drain & refill the spa pool
CLN COVR		Appears every 180 days as a reminder to clean the cover
TRT WOOD		N/A to an Alpine Spa
CHNG FLTR		Appears every 365 days as a reminder to replace the filter/s
CHNG CART		N/A to an Alpine Spa

Diagnostic Messages - SPANET 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



0800 99 33 88 | service@alpinespas.co.nz | www.alpinespas.co.nz