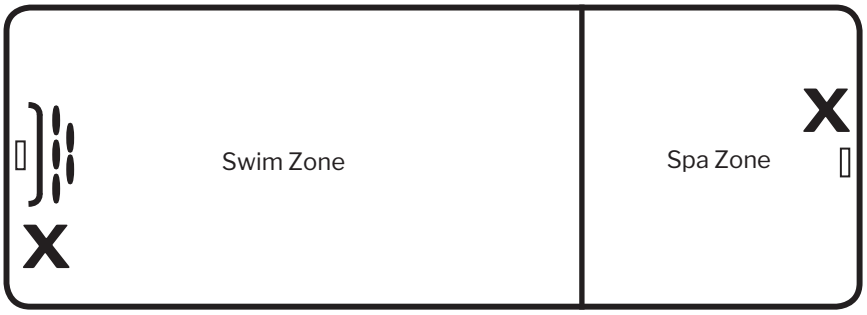
HIMALAYA PLATINUM - ELECTRICAL INSTALLATION

OVERVIEW

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

The Himalaya Platinum uses two seperate controllers, one for each 'zone':
Swim Zone - SpaNet SV3 (32A or 45A)
Spa Zone - SpaNet SV-SMART (15A or 25A)



Birds eye view - controllers marked by 'X'

The two controllers should be supplied by seperate feeds where possible with seperate isolation switches. This will give the user the ability to disable a zone individually (e.g drain the spa zone over summer but keep the swim zone functioning).

The Himalaya Platinum can be setup in different ways depending on how much power supply is available and also if a heat pump is being used.

The Swim Spa may seem like it requires a lot of power (32A + 15A), however the Swim Zone will only draw 32A when powering all three swim pumps. On standby/heating, the Swim Zone will only draw a maximum of 25A, or less than 15A if equipped with a heat pump.

Both controllers can be setup in different ways depending on how much power supply is available and also if a heat pump is being used. See available setups on the following page for the list to choose from.

AVAILABLE SETUPS

AMPS Setups	Conditions
15A (or 25A) Spa Zone 45A Swim Zone no heat pump	Spa Zone fully functional however 15A setup will load shed heater* No heating available in Swim Zone when all four pumps are running. This is okay as heating of water not usually required while exercising.
15A (or 25A) Spa Zone 45A Swim Zone w/ heat pump	Spa Zone fully functional however 15A setup will load shed heater* No heating available when all three pumps are running. This is okay as heating of water not usually required while exercising.
15A (or 25A) Spa Zone 55A Swim Zone no heat pump	Spa Zone fully functional however 15A setup will load shed heater* When running all four pumps there is roughly 10A leftover for heating so about 1/3 of the power of the 6kW variable heater will engage.
15A (or 25A) Spa Zone 55A Swim Zone w/ heat pump	Spa Zone fully functional however 15A setup will load shed heater* Enough power available to run the heat pump simultaneously with all four swim zone pumps.

SPA ZONE SETTINGS

*We recommend 15A (default setup) for the Spa Zone to keep power draw low and a 15A cable and plug is already wired to the controller. 15A will load shed the heater when the main jet pump is turned on. This is generally not an issue unless customers are in a very cold climate and want to run the spa jet pump for hours at at time (an unlikely scenario). If the customer requests, you can change this controller to a 25A setup to avoid load shed:

25A Setup

If you are hardwiring a 25A feed, replace the cable with your own feed as per the diagram on pages 5-6. Do not alter the dip switch settings. Special settings need to be applied to the controller via the touch panel, see pages 5-6 for instructions.

SWIM ZONE SETTINGS

The ‘Circuit Breaker Limit’ (C.LMT) value needs to be set to match the rating of the circuit breaker that feeds the Swim Zone controller (it is already set to 40A by default). To update this value, see ‘Touch Panel Input Settings’ on page 3-4 of this document.

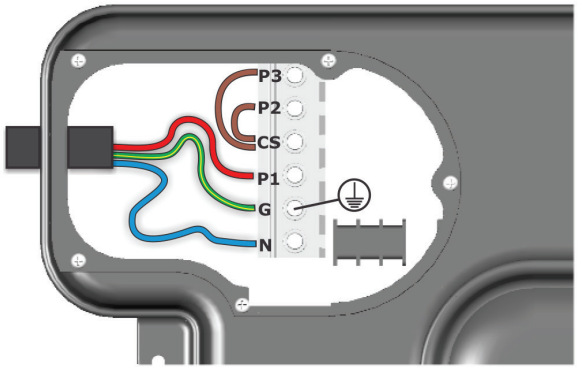
SWIM ZONE SETTINGS

SWIM ZONE CONTROLLER LOCATION

The below diagrams shows exactly where the swim zone controller is located within the swim spa (marked X).

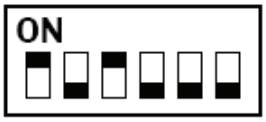
SWIM ZONE CONTROLLER WIRING DIAGRAM - (SV3)

This ***Swim Zone*** Controller can be wired single, dual or three phase. See below diagrams. Ensure dips are set correctly.

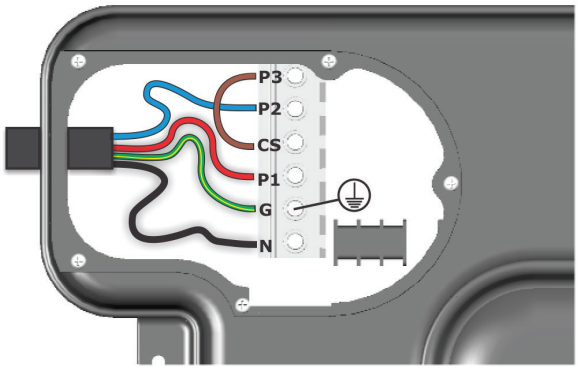


230-240V (3 wire) single phase

Terminal	Wiring
P3	Link to CS
P2	Link to CS
CS	Link to P3 and P2
P1	Phase
G	Earth
N	Neutral

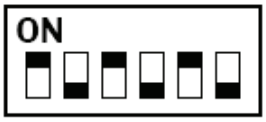


DIPS

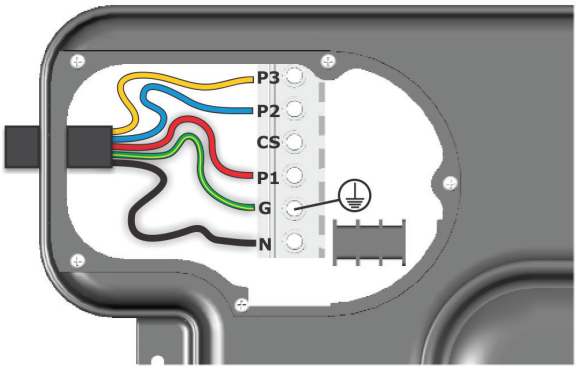


230-240V (4 wire) dual phase

Terminal	Wiring
P3	Link to CS
P2	Phase 2
CS	Link to P3
P1	Phase 1
G	Earth
N	Neutral

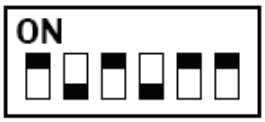


DIPS



230-240V (5 wire) three phase

Terminal	Wiring
P3	Phase 3
P2	Phase 2
CS	Not used
P1	Phase 1
G	Earth
N	Neutral



DIPS

SWIM ZONE SETTINGS

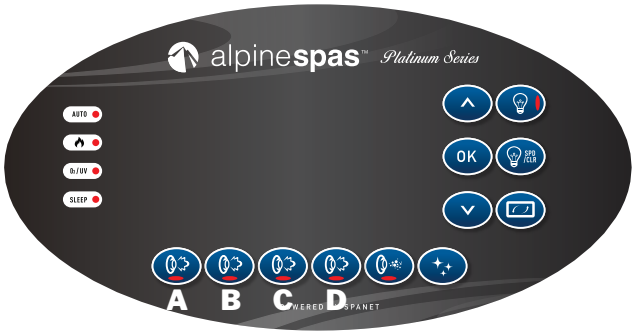
TOUCH PANEL INPUT SETTINGS (MUST BE COMPLETED BEFORE USE)

Before Powering On

Ensure that the Swim Zone is filled with water before turning on the power. If the Swim Zone still requires filling, you will need to power on and apply settings with circulation pump disconnected.

Swim Spa is Filled - Touch Panel & Startup

Once the Swim Spa is filled, locate the touch panel (seen below) and turn power on. If nothing shows on the display, just power off and back on again (data relay error). At first the system will go through a purge cycle which is automatic. This gives the pump a chance to expel any air left in the pipes.



Swim Spa is Empty

Powering on without water in the Swim Spa can damage the pump. To get around this, disconnect the circulation pump from the controller, then power on.
The system will attempt to prime and will fail (because no pump detected). Once an error (ER3) shows on touch panel screen, demo mode must be accessed by pressing 'PUMP A' + 'LIGHT BUTTON' quickly in succession (not together at once). Note: See above panel image to locate 'Pump A'. Once in demo mode, settings below can be then be applied to the controller and will be saved for when Swim Spa is filled and powered.

Setting the Circuit Limit

The OEM menu item C.LMT (current limit) should be set to match the rating of the circuit breaker that feeds the spa pool. In multi phase installations the C.LMT should be set to match the current limit of Phase 1. To take full advantage of the variable element and maximise heater power level when spa in manual use the circuit breaker rating must be programmed correctly. By default, C.LMT is already pre-set to 40A.

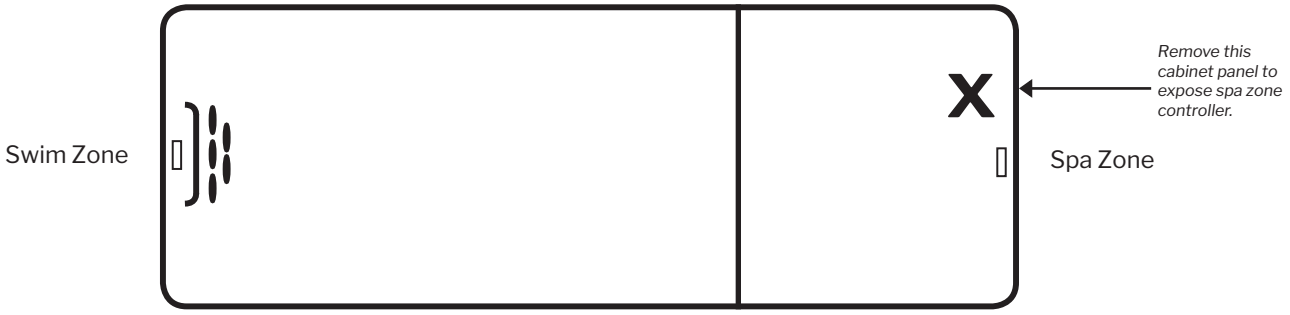
Follow the bellow instructions to set the C.LMT adjustment to match the circuit breaker rating.

Press and hold the BLOWER and CLEAN buttons together until C.LMT is displayed on the screen. → *Press the OK button to enter current limit adjustment (C.LMT)* → *Use the UP and DOWN buttons to adjust the C.LMT to desired amperage* → *Press the OK button to save the adjustment.*

SPA ZONE SETTINGS

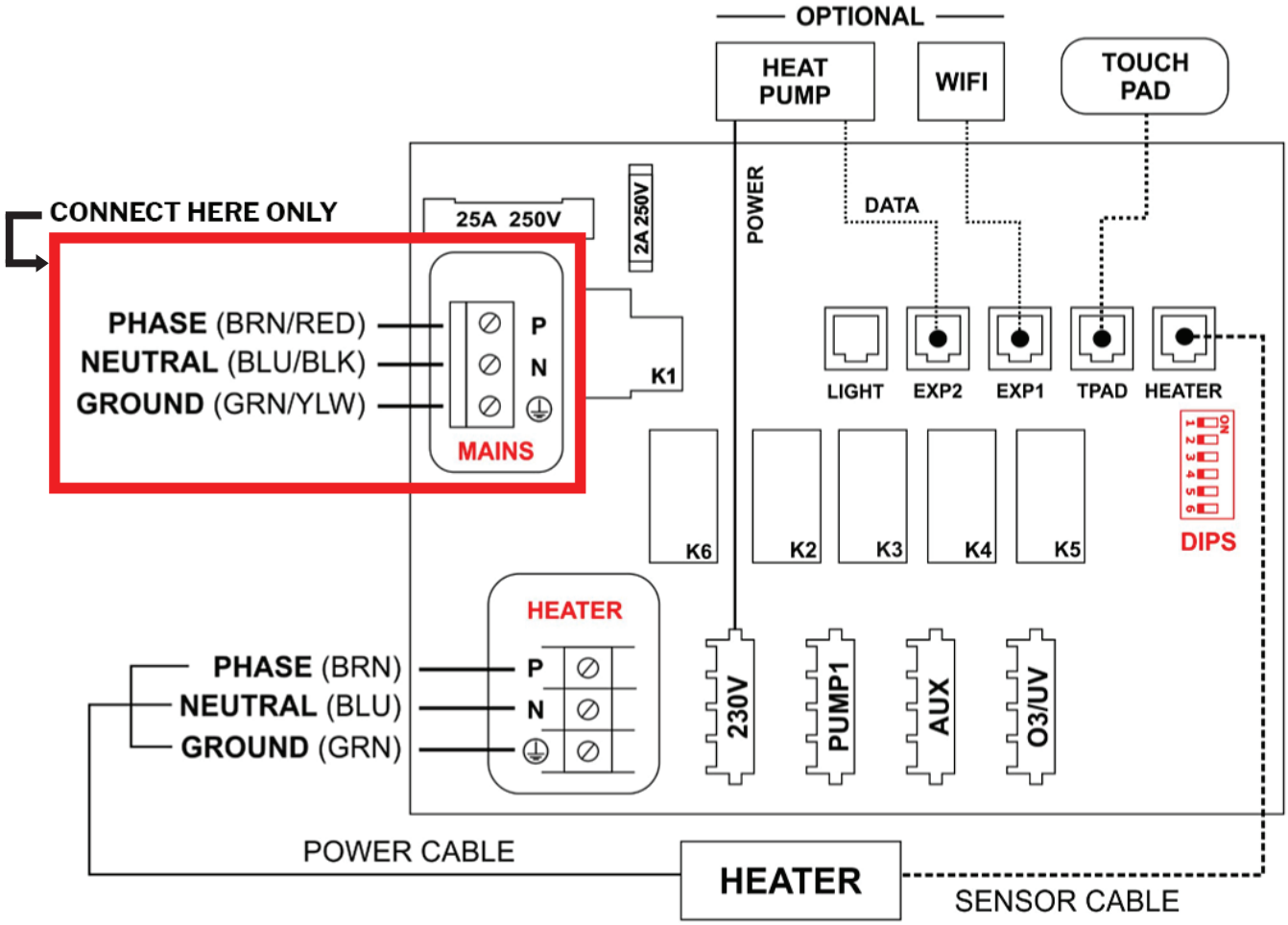
SPA ZONE CONTROLLER LOCATION

The below diagrams shows exactly where the Spa Zone controller is located within the swim spa (marked X). A pre-connected 15A cable with plug can be found coiled inside. If keeping defaut 15A, just plug into a 15A socket and install is complete.



SPA ZONE CONTROLLER WIRING DIAGRAM - (SV-SMART)

A 15A cable and plug is already wired to the spa zone controller. If you are hardwiring a 25A feed, replace the cable with your own feed as per the diagram below. Do not alter the dip switch settings.



SPA ZONE SETTINGS

CHANGING TO 25A - TOUCH PANEL INPUT SETTINGS

Before Powering On

Ensure that the Spa Zone is filled with water before turning on the power. If the Spa Zone still requires filling, you will need to power on and apply settings with pump-1 disconnected.

Spa Zone is Filled - Touch Panel & Startup

Once the Swim Spa is filled, locate the touch panel (seen below) and turn power on. If nothing shows on the display, just power off and back on again (data relay error). At first the system will go through a purge cycle which is automatic. This gives the pump a chance to expel any air left in the pipes.

Spa Zone is Empty

Powering on without water in the Swim Spa can damage the pump. To get around this, disconnect the circulation pump (pump 1) from the controller, then power on. The system will attempt to prime and will fail (because no pump detected). Once an error shows on touch panel screen, demo mode must be accessed by pressing 'PUMP A' + 'LIGHT BUTTON' quickly in succession (not together at once).

Note: See above panel image to locate 'Pump A'. Once in demo mode, settings below can be then be applied to the controller and will be saved for when Swim Spa is filled and powered.

Applying Load Shed 'L.SHD' Setting for 25A

To setup 25A, Load Shed (L.SHD) must be set to the value of '2' - follow below instructions.