



alpine**spas**TM

ELECTRICAL PACK

Neptune - Pro Swim

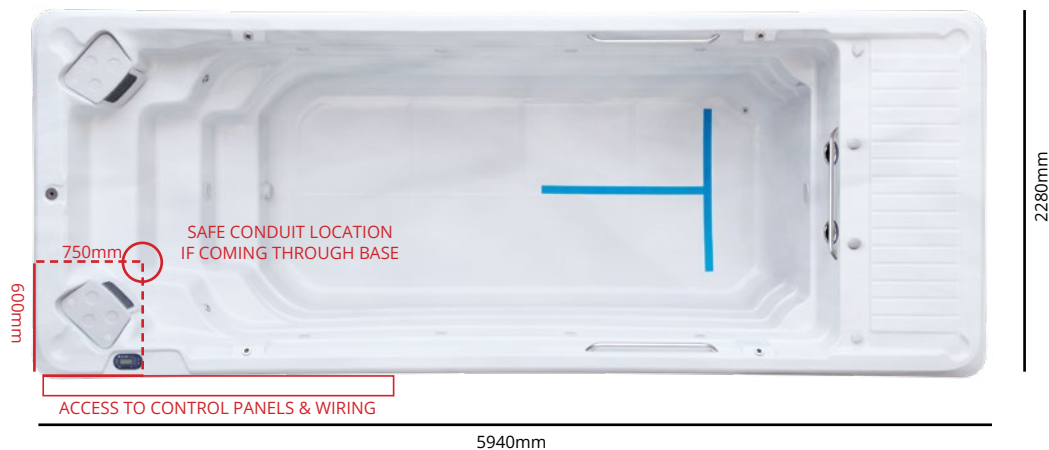




ELECTRICAL SETUP

This document will help you wire and install the Neptune - Pro Swim Spa. Please read this and install as recommended otherwise it will not operate correctly.

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



The Neptune - Pro Swim uses the SpaNET SV4 Controller.

By default, **only 45A is required to run the controller in the Neptune - Pro Swim.** However, you can alter the settings and hardwire a 60A feed so that the heater can run better while all the pumps are in use.

AVAILABLE SETUPS

Neptune - Pro Swim	Recommended	Minimum Setup	Maximum Setup
SV4 Controller	45A	45A	60A

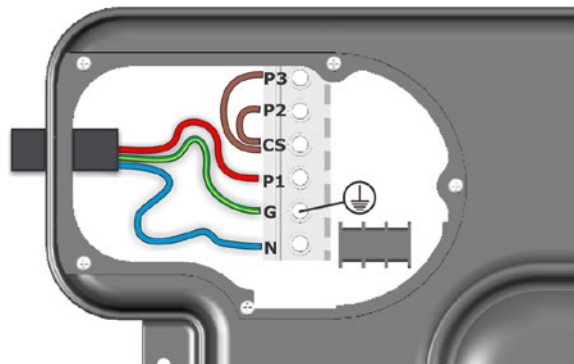
For 45A & 60A - To hardwire a 45A or 60A electrical feed to the spa pool, you must wire as per the diagram on the next page and program the controller's current limit (C.LMT) to match the circuit breaker rating (45A or 60A). This is set using the touch pad located on the edge of the spa pool acrylic and following the guide on page 4.



CONTROLLER WIRING DIAGRAM (SV4)

This controller can be wired single, dual or three phase. See below diagrams. Ensure DIP switches are set correctly.

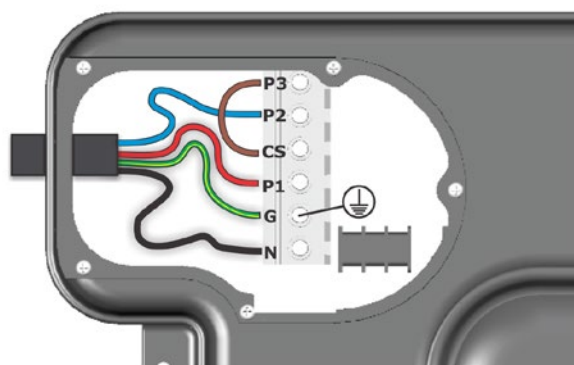
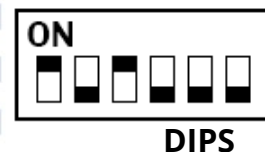
No cable and/or electrical equipment (RCD etc.) is provided.



230-240V (3 wire) single phase

Terminal Wiring

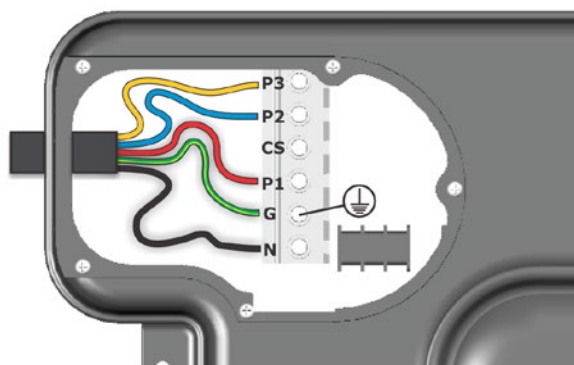
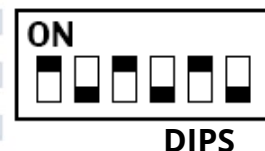
P3	Link to CS
P2	Link to CS
CS	Link to P3 and P2
P1	Phase
G	Earth
N	Neutral



230-240V (4 wire) dual phase

Terminal Wiring

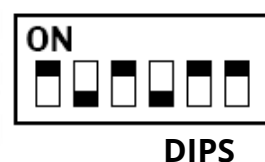
P3	Link to CS
P2	Phase 2
CS	Link to P3
P1	Phase 1
G	Earth
N	Neutral



230-240V (5 wire) three phase

Terminal Wiring

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





Before Powering On

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

Swim Spa is Filled - Touch Pad & Startup

Once the Swim Spa is filled, turn on the power and locate the touch pad (seen below).

If nothing shows on the display, just power off and back on again.

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 pad 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.

