



alpine**spas**[™]

ELECTRICAL PACK

Missouri Ultra
&
Missouri Ultra XT





ELECTRICAL SETUP

This document will help you wire and install the Missouri Ultra & Missouri Ultra XT Swim Spas. 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 Missouri uses the SpaNET SV3 Controller and Touchpad. It also has a RiverSwim controller and Touchpad for the turbine swim system.

AVAILABLE SETUPS

MISSOURI ULTRA	Recommended	Minimum Setup	Maximum Setup
RiverSwim System Controller	15A	15A	N/A
SpaNET SV3 Controller	32A	32A	45A*

MISSOURI ULTRA XT	Recommended	Minimum Setup	Maximum Setup
RiverSwim System Controller	32A	32A	N/A
SpaNET SV3 Controller	32A	32A	45A*

*45A requires you to change the current limit (C.LMT) setting as per page 4.

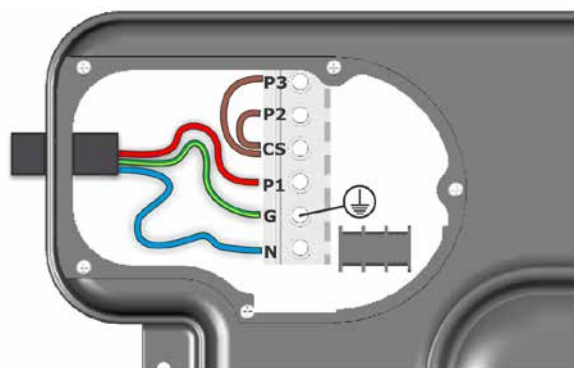
No cable or circuit breaker is included.



CONTROLLER WIRING DIAGRAM (SV3)

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

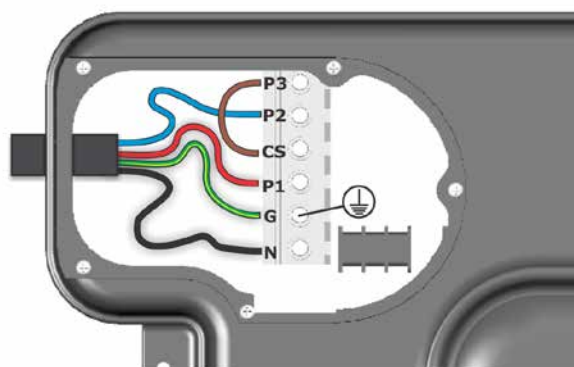
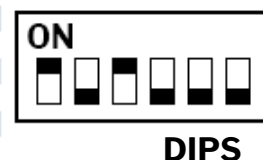
No cable and/or electrical equipment (RCD etc.) is provided.



230-240V (3 wire) single phase

Terminal Wiring

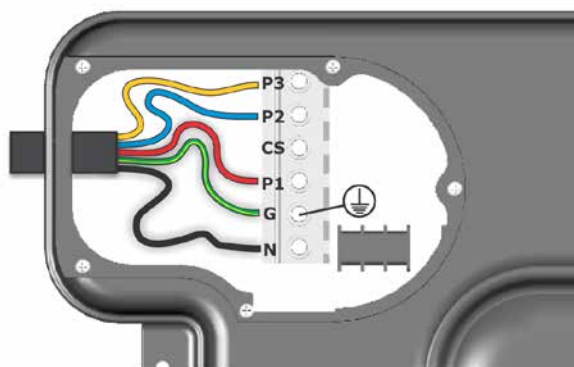
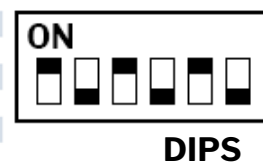
P3	Link to CS
P2	Link to CS
CS	Link to P3 and P2
P1	Phase
G	Earth
N	Neutral



230-240V (4 wire) dual phase

Terminal Wiring

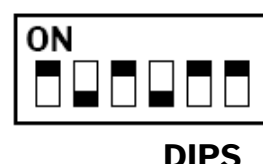
P3	Link to CS
P2	Phase 2
CS	Link to P3
P1	Phase 1
G	Earth
N	Neutral



230-240V (5 wire) three phase

Terminal Wiring

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





TOUCHPAD SETTINGS - SPANET SV3

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 32A.

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



WIRING DIAGRAM - RIVERSWIM UNIT



RiverSwim Turbine Controller Wiring

The RiverSwim Turbine has its own controller that requires wiring. This is usually housed in a plastic box near the SpaNET controller.

If you have the **Missouri Ultra** swim spa, this requires a **15A** feed as it has a single turbine. If you have the **Missouri Ultra XT** swim spa, this requires a **32A** feed as it has twin turbines.

You will find the below wiring diagram on the inside of the plastic box that houses the controller. Use this to assist your wiring.

