

Converting the SmarTouch Spa Pack for 230V Pump Operation

The SmarTouch 1000 is configured at the factory to accept 230V from your mains circuit breaker. This 230V is only used to power the built-in heater element. The “Pump 1” and (Blower / Pump 2) connectors are configured for 115V operation, but may be modified for 230V operation.

Warning: Before connecting any motors, ozone lamps, or other devices, always check the voltage at the Spa Pack connectors, and compare it to the voltage ratings listed on the motor nameplate.

- Operating a 115V pump at 230V generates a loud noise and the motor shuts down in seconds.
- Operating a 230V pump at 115V may cause it to whine, run very slowly, overheat, and shut down. If this happens with Pump 1, the controller will report PSoL and PSoH errors. If this happens with Pump 2, the controller will not report any errors. Continued operation at the wrong voltage may permanently damage the motor.

Converting Pump 1 to 230 V operation: On the terminal block where the main power is connected, loosen the screw at middle terminal. Move the blue jumper wire from the middle (Neutral) terminal to the right (red / Line 2) terminal.

Converting Blower / Pump 2

Look for the red / white striped jumper wire connected to J21 also marked COM2 at the PCBoard. Leave the end at the PCBoard connected and move the opposite end to the LINE2 (Red) terminal. Leave the other white wire(s) attached.

- Do NOT move the white wire that goes from the top of the contactor to the middle (neutral) terminal of the mains power block. This wire supplies 115V to the contactor coil, and moving it could supply 230V to the contactor coil, which will cause premature failure of the contactor.

Converting Circulating pump to 230V operation:

Look for the white wire at the Red receptacle marked Circ Pump. connected to the middle terminal marked NEUTRAL at the main terminal block, disconnect it and move it to the right LINE2 (Red) terminal. Leave the other white wire(s) attached.

NOTE: These conversions will not change the voltage to the spa light (12V).