

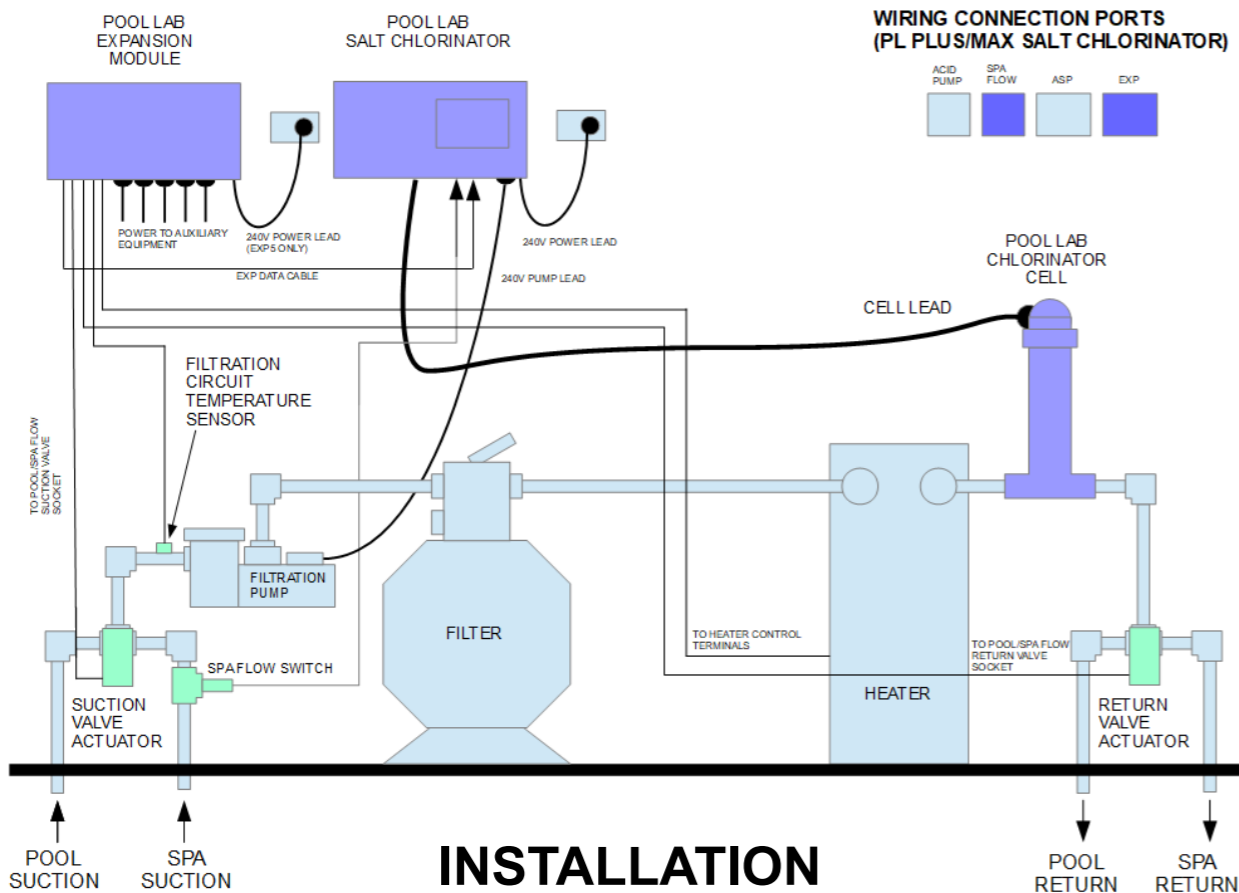
POOL LAB[®]

PL SERIES EXP - EXPANSION MODULE

QUICK START GUIDE



Download the complete instruction manual and installation guide at
<http://www.poollab.com.au>



Water Temperature Sensor: (required for heater control and temperature display)

Find a suitable location in the pipework at a place that always has flow when the filtration pump is running. This can be anywhere in between the suction and return valves, and can be on a pipe or a fitting. If the location is below water level, close the suction and return isolation valves before proceeding. Using a low voltage cordless drill, drill an 8mm hole in the pipe at the preferred location. Insert the temperature sensor into the hole, and ensure the o-ring is in place. Open the gear clamp completely, and put it over the temperature sensor location. Tighten the gear clamp enough so that the sensor is secured and the o-ring partially compressed. Do not over-tighten, as this may crush the pipe or damage the sensor.

Pool and Spa Combination with automated valve control:

A spa flow switch is required for all pool and spa combination systems, with or without automatic valve control actuators. If spa flow is detected for more than 30 seconds, the Pool Lab unit will assume SPA MODE automatically.

Install 24VAC valve actuators on both the suction and return valves as shown in the diagram. Set the valve travel as required (see valve instructions for this procedure). The suction valve will completely close the spa suction in "POOL MODE", and completely close the pool suction in "SPA MODE". The return valve however will usually be configured to allow some water to the spa return in "POOL MODE" so that water is always circulated through the spa.

The suction side valve should be connected to the socket marked "VALVE 1"
 The return side valve should be connected to the socket marked "VALVE 2"

Integrated Solar Control: (requires a solar sensor kit)

For valve controlled solar, an additional 24VAC valve actuator will be required on the solar bypass valve.

Install the solar inlet temperature sensor on the inlet to the solar array.

Install the solar roof sensor on the roof near the solar array, or in a position with similar exposure to sunlight. For best results, insert the roof sensor into a small piece of solar matting and attach to roof at the same angle to the sun as the array.

CONFIGURATION:

Hold view button for 3 seconds to access the MAIN MENU.

Navigate to SYSTEM CONFIG - AUTHORITY, and set AUTHORITY to "INST"

For isolated solar systems that always return water only to the pool, please ensure SOLAR CONFIG - ISOLATED is set to YES.

For boost pump, retro-fit or valve controlled solar systems, ensure ISOLATED is set to NO.

Set SOLAR POOL and/or SOLAR SPA to YES to enable solar heating controls.

Connect the solar pump (if used) to one of the AUX outlet sockets, and navigate to SYSTEM CONFIG - AUX CONFIG. Set the appropriate AUX output to SOLAR.

For valve operated solar, SYSTEM CONFIG - VALVE CONFIG, set the VALVE to SOLAR.

VALVE CONTROLLED SOLAR EXAMPLE (as per diagram below):

Navigate to SOLAR CONFIG.

Set SOLAR POOL to YES to allow solar to heat the pool.

Set SOLAR SPA to YES if want to allow heating the SPA with solar.

Set ISOLATED to NO, as this not an isolated solar system in this example.

Set FILTER O'RIDE to YES to allow the solar system to run outside of filtration timer periods.

Navigate to VALVE CONFIG.

Set VALVE3 to SOLAR (or VALVE4)

