POOL LAB®
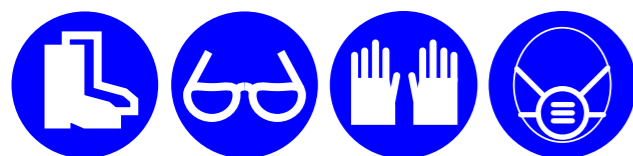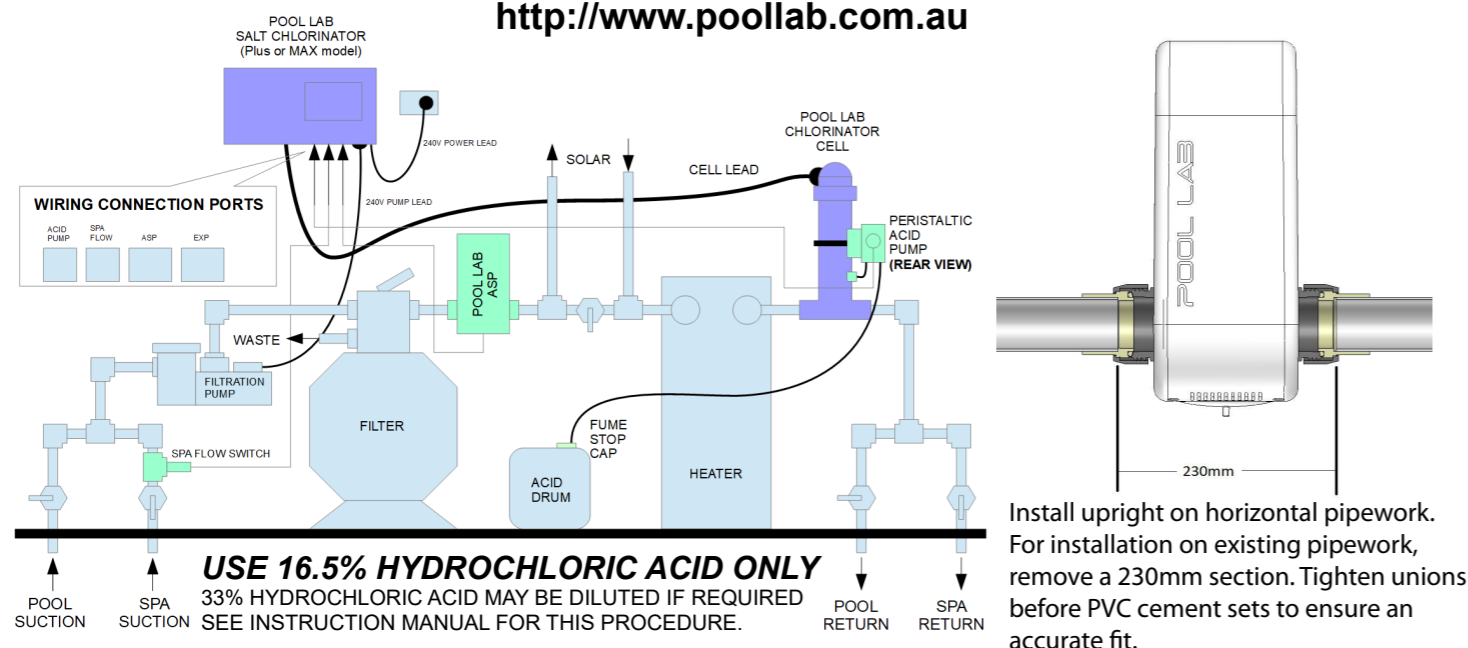## PL SERIES ASP - AUTO SAMPLING PHOTOMETER
QUICK START GUIDE

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

USE 16.5% HYDROCHLORIC ACID ONLY
33% HYDROCHLORIC ACID MAY BE DILUTED IF REQUIRED
SEE INSTRUCTION MANUAL FOR THIS PROCEDURE.

Install upright on horizontal pipework. For installation on existing pipework, remove a 230mm section. Tighten unions before PVC cement sets to ensure an accurate fit.
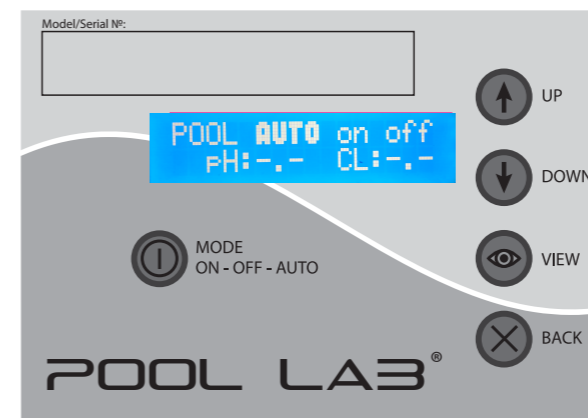
ALWAYS WEAR APPROPRIATE PROTECTIVE CLOTHING WHEN HANDLING ACID. FOR EXAMPLE: BOOTS, GLOVES, AND EYE PROTECTION OR FACE SHIELD. BEWARE OF ACID FUMES, AND ALWAYS ENSURE AREA IS WELL VENTILATED. USE A RESPIRATOR WITH TYPE E FILTER IF REQUIRED. WHEN DILUTING ALWAYS ADD ACID TO WATER - **NEVER ADD WATER TO ACID!**

INSTALLATION

STEP 1: **Ensure mains power to the Pool Lab chlorinator is turned OFF**, and disconnect the filtration pump power cord from the filter pump socket before proceeding to ensure the pump is not accidentally started during installation or before PVC cement has set.

STEP 2: Install the ASP on the filtration system pipework after the filter, and before the chlorinator cell or any heating equipment. Water can flow in either direction through the ASP unit. Use PVC cement designed for high pressure applications.

STEP 3: Install the ACID PUMP, ACID DRUM with FUME STOP CAP, ACID INJECTOR and ACID FEED TUBING as shown. The acid pump can be secured to the chlorinator cell housing with the large cable tie provided. Connect the acid pump power cable to the socket marked "ACID PUMP" on the Pool Lab Chlorinator.

STEP 4: Remove the top cover of the ASP and connect the 3 x REAGENT BAGS provided to the reagent feed tubes. Hang the reagent bags on the reagent hooks and replace the cover.

STEP 5: *For POOL and SPA combination systems only:* Install a SPA FLOW SWITCH on the SPA SUCTION line, and connect the spa flow switch lead to the socket marked "SPA FLOW" on the Pool Lab Chlorinator.

STEP 6: Ensure mains power is turned OFF to the Pool Lab Chlornator before connecting the ASP DATA CABLE to the socket marked "ASP".

STEP 7: Turn mains power to the Pool Lab Chlorinator ON. If the system is not already in OFF mode, use the MODE button to select OFF mode until configuration is complete. Do not connect the filtration pump until configuration is complete and the PVC cement has set.

The ASP will now be detected by the Pool Lab chlorinator, and the reagents will prime automatically.

When an ASP is connected to the Pool Lab chlorinator the bottom line of the display will show the pH and Chlorine levels. The values will initially be "-.-" indicating that the value is unknown until the first water test occurs.

The first water test will be scheduled approximately 5 minutes after water flow is detected in AUTO or ON mode.

CONFIGURATION

STEP 1: From the HOME view (as shown above) press and hold the VIEW button for approx. 3 seconds to open the MENU SYSTEM.

Controls for the MENU SYSTEM are as follows:
UP/DOWN buttons to navigate menus or to adjust values while editing.
VIEW button to select a sub-menu, edit a value, or save an edited value.
BACK button to return to the previous menu, or cancel editing a value.

STEP 2: Your new Pool Lab system will be in INSTALLER mode by default, and will automatically revert to USER mode the first time the integrated clock reaches midnight. INSTALLER mode will allow you to change system configuration items and settings. If your system is not already in INSTALLER mode, navigate to SYSTEM CONFIG - AUTHORITY and set AUTHORITY to "INST" (INSTALLER)

STEP 3: Navigate to SYSTEM CONFIG - POOL VOLS and ensure that the POOL and SPA VOLUMES are programmed correctly. The default values are POOL = 50,000 L and SPA = 2,000 L.

STEP 4: Navigate to the SETTINGS menu and ensure the CL TARGET (Free Chlorine Target) and pH TARGET are set as required. Default values are CL = 2.0 (ppm) and pH = 7.6

TESTING AND COMMISSIONING

STEP 1: Once the PVC cement has set, reconnect the filtration pump power cord to the filter pump socket. Ensure all flow control valves are set for normal operation. Using the MODE button, set the FILTRATION mode to ON (Manual ON mode) to start the filtration pump.

STEP 2: Press and hold the VIEW button for approx. 3 seconds to open the MENU SYSTEM.

STEP 3: Navigate to ASP TOOLS - ACID PRIME and press VIEW to initiate the ACID PRIME function. A 60 second countdown timer will begin and the acid pump will start running. Watch the ACID FEED tubing and you should be able to observe the acid being drawn from the reservoir. Allow the prime function to run until acid reaches the injection point. Press BACK to cancel the prime function, or press VIEW to restart the timer if required.

STEP 4: Return to the HOME view (using the BACK button) and wait for the first water test to begin (approximately 5 minutes after the filtration pump was started). The display will flash "TESTING WATER" while the tests are in progress. It may take several more minutes to complete both water pH and CL water tests. Tests results will be displayed as the tests complete, and automatic chlorine and acid dosing will commence after completion of both tests.

STEP 5: Set the filtration mode to AUTO. Press the VIEW button to check the system time and date are set correctly, and to check the filtration timers are set appropriately*.

* Generally we recommend a minimum run time of at least 8 hours per day during summer and 4 hours per day during winter with the pool covered. Requirements vary depending on usage and enviromental conditions.