

TROUBLESHOOTING GUIDE - HOW TO CHECK IF THE CHLORINATOR IS WORKING

IMPORTANT – SALT LEVEL MUST BE AT LEAST 3000PPM TO PERFORM THIS TEST.

Pool Lab salt chlorinators regulate chlorine output by switching power to the cell ON and OFF over a 3-minute cycle.

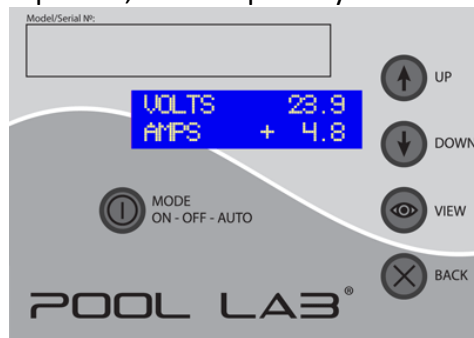
When monitoring the cell output it is normal for the output to switch off for up to half of this 3-minute cycle.

Higher water temperatures and higher salt levels will increase the amount of time the cell power is OFF for. Pool Lab chlorinator cells have two polarities: + and -. The following procedure will test the chlorine production by measuring the amps drawn by the chlorinator cell in each polarity.

1. Switch power to the Pool Lab salt chlorinator off at the power outlet and wait at least 10 seconds.
2. If there is a Pool Lab ASP (Auto Sampling Photometer) connected, unplug it from the port at the bottom of the power pack.
NOTE: Make sure to keep the connector clean and dry during the test procedure.
3. Switch power to the Pool Lab salt chlorinator ON at the power outlet.
4. Using the **MODE** button, select manual **ON** mode. The filtration pump should now be running.
NOTE: If the filtration pump is controlled by a third-party controller, ensure the pump is running.
5. If the display does not show “**CL SET: 100%**” use the UP button to increase the chlorinator output to 100%. Press **VIEW** to save the setting. The screen should look like this:

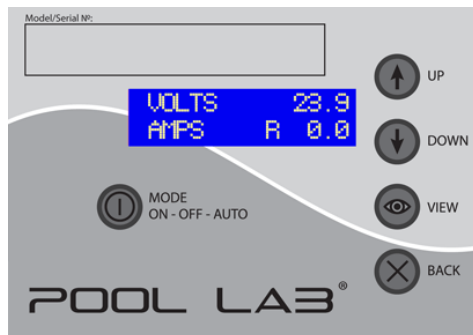


6. Hold the **BACK** button until the DIAGNOSTIC VIEW appear. This view shows the power supply voltage available to the cell, the cell amp draw, and the polarity + or -. The screen should look like this:



7. When the cell current has stabilised (after approx. 15-30 seconds from selecting ON mode), record the VOLTS and AMPS readings as well as the + or - polarity indicator.

8. Press and hold the **VIEW** button until the letter “R” appears over the polarity indicator. This indicates a polarity reversal is in progress. The screen should look like this:



Once polarity reversal is complete, the polarity indicator should now be showing the opposite polarity to what was recorded in Step 7.

9. Wait 15-30 seconds for the cell current to stabilise and record the VOLTS and AMPS and the polarity.

10. Push the **BACK** button to return to the HOME VIEW. Use the **MODE** button to reset the filtration mode to its previous value - usually AUTO when the pump is controlled by Pool Lab.

11. If no ASP was connected, use the **UP/DOWN** buttons to reset CL SET to its previous value, and press **VIEW** to save the setting.

If an ASP was connected, switch power to the Pool Lab salt chlorinator OFF at the power outlet and reconnect the ASP to the socket marked “ASP” on the bottom of the chlorinator power pack. Then turn power back on.

12. Compare the recorded VOLTS and AMPS values with the table below.

Model	VOLTS	AMPS (+)	AMPS (-)	Max Difference (+/-)*	Min. Ideal AMPS**
PL25, ML25, PLECO	23 - 26 V	3.2 - 8.2	3.2 - 8.2	±0.8	4.2
PL35, ML35	23 - 26 V	4.4 - 13.2	4.4 - 13.2	±1.3	5.9
PL45, ML45	23 - 26 V	5.7 - 13.2	5.7 - 13.2	±1.3	7.5

* The + and - polarity of the cell should have similar amp draw, within approx. 10%

** This is the minimum current required for each model to produce the rated chlorine output.

- **VOLTS** - The voltage should always be in the range 23V - 26V. Outside of this range may indicate a faulty power supply.
- **AMPS** - Amp draw within range on both polarities, and <10% difference.
Your chlorinator is working.
- **AMPS** - Amp draw on one polarity significantly different to the opposite polarity may indicate a faulty or calcified cell***.
- **AMPS** - Amp draw low on both polarities may indicate a calcified cell***, or low salt level.
- **AMPS** - Amp draw exceeds maximum indicates that the salt level is too high.
- **AMPS** - No amp draw on one or both polarities may indicate a faulty cell or a fault with the chlorinator power pack***.

*** **Clean the cell with diluted acid as per instructions in the owner’s manual and repeat the test. You must perform this step even if the cell appears to be clean, as there can be a clear insulating layer that is not visible.** If cleaning the cell does not rectify the issue then there may be an issue with your chlorinator cell or power pack.

If your chlorinator is working but you are still having issues with low chlorine, contact your local pool professional for assistance with high chlorine demand and/or refer to the FAQ - Chlorine Testing Low section on our website.