

Simple Cell

Simple Cell Owner's Manual

Part Number: SimpleCell

Specifications:

Compatible Systems: Optimum M-513, Hayward/Goldline® Aqua Rite®, Aqua Logic®, Mineral Springs®, Naturesoft®, SplashCLEAR®

Qty. of Plates: 13 Plates / 15 Water Channels

Chlorine Output: 30 g/h

Rated: Up to 40,000 Gallon Pool



For assistance please contact Optimum Pool Technologies at (800) 391-9936

Optimum Pool Technologies, Inc. USA
160 N. Joy Street
Corona, CA 92879

Phone: (800) 391-9936 9:00am – 5:00pm PST
www.optimumpooltech.com



OPERATION

WATER CHEMISTRY

- Ideal salt level: 3200 (2700-3400 parts per million [PPM]).
- Excessively LOW salt levels will reduce efficiency and/or can cause the salt system not to operate at all, making pool water unsafe for bathers.
- Excessively HIGH salt levels will cause the salt system to shut down as well, making pool water unsafe for bathers.

Salt

Only sodium chloride (NaCl) that is 99% pure should be used. This salt can be found in stores labeled as food quality salt or water softener salt. It is usually found in bags from 40-80 lbs.

DO NOT USE: rock salt, salt with more than 1% yellow prussiate of soda, salt with more than 1% of anti-caking additives, or iodized salt.

Add or Remove Salt

- IN GROUND POOLS: Turn the filter pump on and add the salt directly into the pool at the shallow end.
- ABOVE GROUND POOLS WITH MAIN DRAINS: Add salt directly in front of the return jet to pool. Run the filter pump for 24 hours with the suction coming from the main drain (use the pool vacuum if there is no main drain) to allow the salt to evenly disperse throughout the pool.
- ABOVE GROUND POOLS WITHOUT MAIN DRAINS: Add salt directly into the pool. Brush the salt to speed up the dissolving process—to not allow the salt to sit in a pile on the bottom of the pool.

FOR ANY POOL, DO NOT ADD SALT DIRECTLY TO THE SKIMMERS OR DIRECTLY ONTO THE MAIN DRAIN. THIS WILL SHUT DOWN OR SHORTEN THE LIFE OF THE CELL DUE TO HIGH SALT CONCENTRATION AND REDUCED FLOW TO THE PUMP.

If added incorrectly, immediately turn off your salt system for 24 hours with the pump and filter operating, this will help to evenly distribute the salt. The salt display may take 24 hours to respond to the change in salt concentration.

SALT DOES NOT EVAPORATE FROM POOL

The only way to lower the salt concentration is to partially drain the pool and refill with fresh water.

IDEAL CHEMICAL LEVELS

| Salt | Free Chl | pH | Stabilizer | Total Alk | Calcium Hardness | Metals | Saturation Index |
|------------------|----------------|------------|---------------|---------------|------------------|--------|------------------|
| 2700 to 3400 ppm | 1.0 to 3.0 ppm | 7.2 to 7.6 | 50 to 100 ppm | 80 to 120 ppm | 200 to 400 ppm | 0 ppm | -.2 to .2 |

STABILIZER (CYANURIC ACID)

Always test for stabilizer (cyanuric acid) level, when testing for salt. This test should be done at least once per month. The ideal level should be 80 ppm .

INSTALLATION

To install the cell for your Optimum M-513 or other compatible saltwater chlorination system, follow this procedure.

IMPORTANT: Before installing your new cell, make sure that the current salt level in your swimming pool is within the saltwater chlorination system's operating range (2700-3400 ppm). If the salt level is too high or too low, see Add or Remove Salt on page 1.

1. Turn power to the filter pump and chlorinator system off.
2. Remove the old cell from its position in the plumbing by loosening the unions on both ends of the cell. Unplug the cell cable from the chlorinator controller.
3. Inspect the o-rings on the two unions in the plumbing; if they are damaged or worn they should be replaced before installing the replacement cell. If they are dry, apply a suitable silicon or PTFE based O-ring lubricant. DO NOT use petroleum based lubricant as this will cause the rubber to expand.
4. Position the new cell within the plumbing area. **The cell is non-directional, it has no specific inlet and outlet, so it does not matter which way it is installed into the plumbing.** Tighten the two unions BY HAND to create a seal. Over-tightening with tools may damage the unions or the cell.
5. Plug the cell cable into the chlorinator controller. The power to the filter pump and chlorinator system can now be turned on.
6. The chlorinator system can now be operated as instructed in the control panel installation and operation manual.

RECALIBRATION (Optimum M-513, Goldline® AquaRite®, SwimPure Plus®, and SwimPure Pro®)

The Simple Cell should calibrate automatically to display an accurate measure of a pool's salinity. These cells may take up to 48 hours to reach optimal calibration. However, if the cell does not display an accurate reading of pool water salinity after 48 hours, it is suggested that you manually program your control panel to display an accurate reading of swimming pool water salinity by following the procedures below. **Recalibration is not necessary for most installations.**

If the "CHECK CELL" light is flashing, push and hold the "diagnostics" button until the light stops flashing. This indication light comes on at routine intervals, just as a vehicle's "change oil" light might come on every 3000 miles. Once this is resolved, make sure that the T-Cell is properly cleaned and that the pool water has been accurately and manually tested at a level within the range of 2700-3400ppm. If the control panel is still displaying a lower salt level than the water is actually at, begin the recalibration process:

1. Turn the main switch from "Auto" to "Off", and then back to "Auto"
2. Wait for about ten seconds, until you hear a click inside the panel
3. Once you hear the click, immediately push the "diagnostics" button five times until a negative number is displayed – starting high, and automatically descending.
4. Once the descending number reaches the actual value which you have measured the pool salt level to be, move the main switch to "SUPER CHLORINATE", then back to "AUTO".

This will recalibrate your panel to the accurate salt level.

Servicing and Cleaning the Cell

- Turn off power to the salt system.
- Inspect the cell by looking inside or through the clear housing, between the cell plates for any calcium buildup on the plates. Also check for any debris that may have passed through the filter and gotten caught on the plates. If necessary, you can remove the cell to further inspect the cell plates inside the cell.
- If no calcium deposits can be seen, reinstall the cell.
- If deposits are evident, use a high-pressure garden hose and try to flush the scale off. If this is not successful, use a plastic or wood tool to scrape deposits off of the plates. **DO NOT USE A METAL SCRAPER AS THIS WILL SCRATCH THE FINISH AND DAMAGE THE PLATES.**
- Maintain the pool chemistry at the recommended levels to avoid calcium buildup on the cell.

Diluted Acid Washing

Only acid wash the cell when water flushing will not remove the majority of scaling and deposits. To acid wash:

- Turn off power to salt system.
- Remove cell from piping.
- Use the proper cleaning stand to safely seal one end of the cell (if cleaning stand is not available, place the cell in clean plastic container with adequate volume available to submerge most of the cell, **DO NOT SUBMERGE THE CELLWIRING**).
- Carefully mix a 4:1 solution of water to muriatic acid (one gallon of water to one quart of muriatic acid).

ALWAYS POUR ACID INTO WATER. NEVER POUR WATER INTO ACID.

BE SURE TO WEAR PROTECTIVE GLASSES, CLOTHING AND CHEMICAL RESISTANT GLOVES

- Pour the cleaning solution into the cell just enough to submerge the cell plates (if not using a cleaning stand, the level of the solution should not submerge the wiring). Let the cell soak for FIVE minutes. Then rinse with a garden hose.
- Repeat soaking and rinsing as necessary.
- Place the cell back into the pool's plumbing.

Start-up

DO NOT turn your salt system on until the pool water chemistry has been balanced to proper levels.

Flow switch

This is a separate product, installed separately into the plumbing.

IMPORTANT: Verify that the flow switch is installed properly, with the arrow pointing in the direction that the water flows through your plumbing.

One (1) Year Full Warranty

Optimum Pool Technologies, Inc. warrants its **Simple Cell salt cell product** to be free of defects in materials and workmanship, under normal use and service, for a period of one (1) year. This warranty is applicable from the initial date of purchase on private residential swimming pools in the United States. This warranty is not transferable and applies only to the original owner.

Proof of purchase is required for warranty service. If written proof of purchase is not provided, the manufacturing date code will be the sole determinant of the date of purchase of the product. To obtain warranty service or repair, please contact the place of purchase or the nearest Optimum Pool Technologies authorized warranty service center. For more information on authorized service centers please contact the Optimum Pool Technologies Technical Service Support (800) 391-9936 or visit the Optimum Pool Technologies website at www.OptimumPoolTech.com

One (1) Year full warranty schedule for salt cell.

During the year following purchase date

Full replacement

WARRANTY EXCLUSIONS:

1. Damage caused from improper installation.
2. Resources and parts provided or service implemented by others in course of installation.
3. Use on pools larger than the product rating.
4. Complications caused by failure to install, operate or maintain the product in accordance with the recommendations found in the owner's manual (www.OptimumPoolTech.com).
5. Complications caused by failure to maintain pool water chemistry in accordance with the recommendations found in the owner's manual (www.OptimumPoolTech.com).
6. Complications caused by altering, accident, misuse, negligence, unauthorized repairs or modifications, fire, flood, lightning, freezing, external water, acts of terror, or acts of God.

DISCLAIMER:

THE EXPRESSED WARRANTIES ABOVE CONSTITUTES THE ENTIRE WARRANTY WITH RESPECT TO THE ABOVE-IDENTIFIED OPTIMUM POOL TECHNOLOGIES, INC. SALT CELL PRODUCT AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED.

NO OTHER PERSON IS AUTHORIZED TO OFFER, SUPPLEMENT OR CHANGE ANY WARRANTY ON BEHALF OF OPTIMUM POOL TECHNOLOGIES, INC.

WARRANTY IS VOID IF THE MERCHANDISE HAS BEEN ALTERED IN ANY WAY AFTER MANUFACTURING.



OPTIMUM
POOL TECHNOLOGIES

Optimum Pool Technologies, Inc.

160 N. Joy Street
Corona, CA 92879

Phone: (800) 391-9936 9:00am – 5:00pm PST

www.optimumpooltech.com