

SaltONE

Owner's Manual



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Warranty registration

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WARNING

This equipment must be installed and serviced according to the information found in this manual. Improper installation can create hazards which could result in property damage, serious injury or death. Improper installation will void the warranty.

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CAUTIONS

There are basic safety precautions that you need to follow to be safe. Including :

01. Please note, the total working hours for the SALT CELL should be less than 8 hours total per day. If you are using a variable speed pump for 24 hours a day, be sure to adjust the chlorine output to 25-30%. If the pump is only running 10 hours per day, adjust the chlorine output between 60-80%.

You can use this calculation to calculate the appropriate chlorine output for your pool, suggest at 6 hours per day :

- Pump running 24(Hours a day) *25% (Chlorine Output) =6hr (cell run time per day at 25%).
- Pump running 20(Hours a day) *30% (Chlorine Output) =6hr (cell run time per day at 30%).
- Pump running 15(Hours a day) *40% (Chlorine Output) =6hr (cell run time per day at 40%).
- Pump running 12(Hours a day) *50% (Chlorine Output) =6hr (cell run time per day at 50%).
- Pump running 8(Hours a day) *75% (Chlorine Output) =6hr (cell run time per day at 75%).

02. Start the VS pump on a low speed and kick the speed up until the salt system works.

03. If your swimming pool has natural stone as a covering or decorative layer, please consult stone installation experts for stone maintenance before installing SaltONE.

WARNING

When installing and using this electrical equipment, basic safety precautions should always be exercised, including the following:

01. Risk of Electric Shock: All electrical wiring **MUST** be in conformance with all applicable local codes, regulations, and the National Electric Code ® (NEC®).

02. To reduce the risk of injury, do not permit children to use this product.

03. Higher temperatures may require higher chlorine output to maintain proper free available chlorine residuals. The actual amount of chlorination required by your pool can change, and varies according factors not limited to bather load, rain, temperature, dirt, debris, and chemical balance.



04. Always turn unit off when operating any plumbing control valves such as for backwashing, water exhaust, or during operation of spa or water features if operation restricts water flow to the cell. A build-up of flammable gases will result in hazardous conditions.

- When install the unit, ensure that materials and parts used in the pool are compatible with the use of chlorinated water and salt. Avoid high salt levels (above the recommended range).
- Ensure that the chlorine generator operates only when the circulation pump is operating. When installed with a pool equipment timer, the Control Module must be to the load side of the timer clock.
- If additional chlorine is required (due to hot weather), use Sodium Hypochlorite to maintain an appropriate chlorine residual in the water.
- Proper pool chemistry must be maintained at all times.
- Please find the green terminal inside the control box and connect it to the grounding device in order to minimize the risk of electric shock. Use the correct copper wire size and make sure the wire is connected to an electrical service ground.
- The control box also equips with one bonding at the bottom. Use a solid copper bonding conductor not smaller than 8 AWG and Connect local bonding structure in the pool area.



SaltONE Salt water chlorination is a process that uses dissolved salt for the chlorination of swimming pools. The chlorine generator uses electrolysis in the presence of dissolved salt to produce chlorine gas or its dissolved forms, hypochlorous acid and sodium hypochlorite, which are already commonly used as sanitizing in pools.

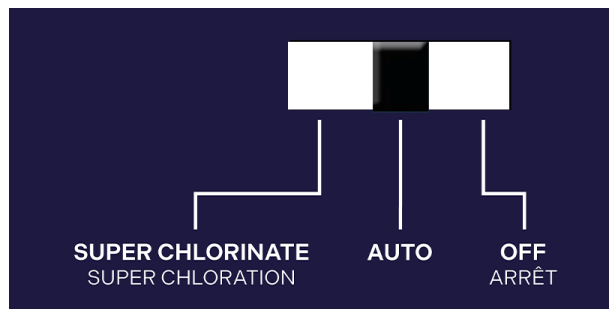
The SaltONE is designed for residential swimming pool up to 60,000 gallons (230,000 liters).

The actual amount of chlorination required to properly disinfect the pool depends on the bather's load, rainfall, air temperature, water temperature, exposure of the pool to the sun, pool surface and cleanliness.

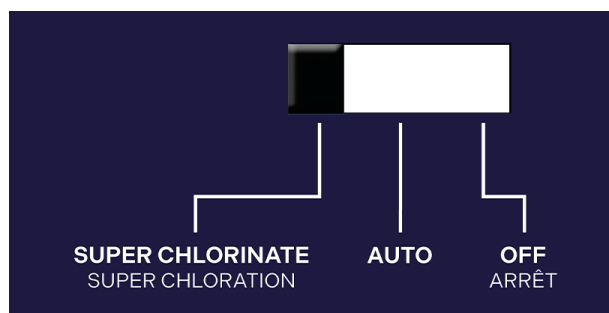
Switches of Control



AUTO: Generally, if the SaltONE is in “Auto”, it will automatically work according to the chlorine output settings.



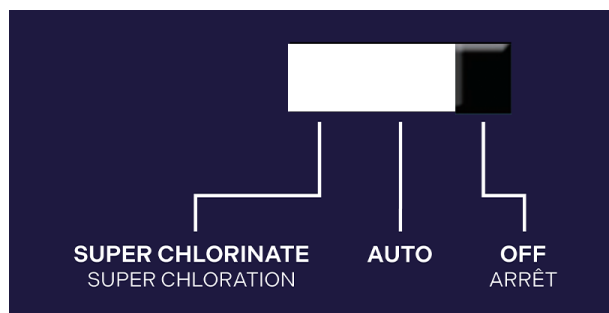
SUPER CHLOR: The “Super Chlor” function is the process of temporarily increasing the free chlorine levels in the pool for the purpose of increased sanitation power. It’s often necessary when the pool water is cloudy, free chlorine levels to fall below optimum levels. Switch to “ON”. It will work 100%, remember to back to “Auto” when you have desired chlorine.



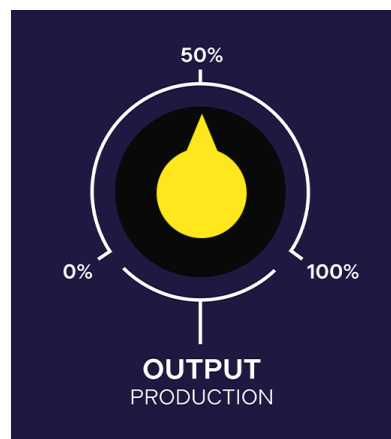
OFF: In “OFF”, the SaltONE stops outputting chlorine.

NOTE -

During the maintenance, please turn the power off the circuit breaker. The OFF switch is not to be used.



OUTPUT LEVEL CONTROL: Adjust this setting to increase or decrease the chlorine output level percentage.



For any pools it is mandatory to maintain proper water chemistry of the pool water, including pH, calcium levels, and alkaline content, especially to maintain proper levels of salt and stabilizer. It helps to prevent corrosion or scaling and to bring better experience for pool users. It is recommended that pool water be professionally tested a minimum of twice per 3 months and adjust the water chemistry in time. Remember to tell the pool store service staff that you are using a salt chlorine generator.

Ideal chemical levels

Water chemistry	Salt Level (ppm)	Free Chlorine (ppm)	PH	Calcium Hardness (ppm)	Stabilizer (ppm)	Metals	Total Alkalinity (ppm)	Saturation Index
Ideal	3000-4000	1.5-3	7.2 - 7.7	200-400	50-80	None (0 best)	80-120	-0.2 to +0.2

Saturation Index

The "saturation index," or the "stability index," is a numerical value indicating whether or not water is balanced.

$$\text{Saturation Index} = \text{pH} + \text{TF} + \text{CF} + \text{AF} - 12.1$$

Ideal Salt Levels & Pool Size

Use the table below to help determine the amount of salt and pool size. The ideal salt level is between 3200-3400 ppm.

How to calculate your pool size in Gallons:

- Rectangular Pools: Length(feet) x width(feet) x average depth(feet) x 7.5
- Circular Pools: Diameter x diameter x average depth x 5.9
- Oval Pools: Length x width x average depth x 6.7

How to calculate your pool size in Liters:

- Rectangular Pools: Length(meters) x width(meters) x average depth(meters) x 7.5
- Circular Pools: Diameter x diameter x average depth x 5.9
- Oval Pools: Length x width x average depth x 6.7

Type of Salt to Use

Use evaporated, granular non-iodized salt (sodium chloride). The purer the salt (at least 99%).

Improve the life and performance of the electrolytic cell. Water softening salt (also called water conditioner).

Granules are an economical way to buy large amounts of salt. However, only NaCl salt with a purity of at least 99% can be used. The pill is a compressed form of evaporated salt and may take longer to dissolve. Avoid using salt with an anti-caking agent, which may cause discoloration.

When adding salt to the pool, it's best to pour the required salt into the shallow end of the pool and run filter and pump at the same time to circulate the water and dissolve the salt. Do not pour the salt bag into the water because the chemicals and ink on the bag will Disturb water balance. In summer, salt may take 24-48 hours to dissolve, while in winter it takes longer. Fine grain the salt will dissolve faster than compressed tablets.

In any swimming pool, do not add salt directly to the skimmer or directly to the main drain. Due to the high concentration of salt and reduced pump flow, this will shut down or shorten the life of the cells.

If the addition is incorrect, please turn off SaltONE immediately for 24 hours while the pump and filter are still running. This will help distribute the salt evenly. The salt display may take up to 24 hours to respond to changes in salt concentration.

 Do not use salt with any Phosphates.



Adding Salt

Approximate Pounds (kg) of Salt Needed to Obtain Ideal Salinity (3,400 PPM)

Current salt level (ppm)	0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800
14,000G 52,500L	419 lbs 190 kg	395 lbs 180 kg	373 lbs 170 kg	350 lbs 159 kg	327 lbs 148 kg	303 lbs 138 kg	280 lbs 127 kg	257 lbs 117 kg	233 lbs 105 kg	210 lbs 95 kg	187 lbs 85 kg	163 lbs 74 kg	140 lbs 64 kg	117 lbs 53 kg	93 lbs 42 kg
16,000G 60,000L	481 lbs 218 kg	454 lbs 206 kg	427 lbs 194 kg	400 lbs 182 kg	373 lbs 170 kg	347 lbs 158 kg	320 lbs 145 kg	293 lbs 133 kg	267 lbs 121 kg	240 lbs 109 kg	213 lbs 97 kg	187 lbs 85 kg	160 lbs 73 kg	133 lbs 61 kg	107 lbs 48 kg
18,000G 67,500L	540 lbs 245 kg	510 lbs 232 kg	480 lbs 218 kg	450 lbs 205 kg	420 lbs 191 kg	390 lbs 177 kg	360 lbs 164 kg	330 lbs 150 kg	300 lbs 136 kg	270 lbs 123 kg	240 lbs 109 kg	210 lbs 95 kg	180 lbs 82 kg	150 lbs 68 kg	120 lbs 55 kg
20,000G 75,000L	599 lbs 272 kg	566 lbs 257 kg	533 lbs 242 kg	500 lbs 227 kg	467 lbs 212 kg	433 lbs 197 kg	400 lbs 182 kg	367 lbs 167 kg	333 lbs 152 kg	300 lbs 136 kg	267 lbs 121 kg	233 lbs 106 kg	200 lbs 91 kg	167 lbs 76 kg	133 lbs 61 kg
22,000G 82,500L	661 lbs 300 kg	624 lbs 284 kg	587 lbs 267 kg	550 lbs 250 kg	513 lbs 233 kg	477 lbs 217 kg	440 lbs 200 kg	403 lbs 163 kg	367 lbs 167 kg	330 lbs 150 kg	293 lbs 133 kg	257 lbs 117 kg	220 lbs 100 kg	183 lbs 83 kg	147 lbs 67 kg
24,000G 90,000L	720 lbs 327 kg	680 lbs 309 kg	640 lbs 291 kg	600 lbs 273 kg	560 lbs 255 kg	520 lbs 236 kg	480 lbs 218 kg	440 lbs 200 kg	400 lbs 182 kg	360 lbs 164 kg	320 lbs 145 kg	280 lbs 127 kg	240 lbs 109 kg	200 lbs 91 kg	160 lbs 73 kg
26,000G 97,500L	779 lbs 354 kg	736 lbs 335 kg	693 lbs 315 kg	650 lbs 295 kg	607 lbs 276 kg	563 lbs 256 kg	520 lbs 236 kg	477 lbs 217 kg	433 lbs 197 kg	390 lbs 177 kg	347 lbs 158 kg	303 lbs 138 kg	260 lbs 118 kg	217 lbs 98 kg	173 lbs 79 kg
28,000G 105,000L	841 lbs 381 kg	794 lbs 360 kg	747 lbs 339 kg	700 lbs 318 kg	653 lbs 297 kg	607 lbs 276 kg	560 lbs 255 kg	513 lbs 233 kg	467 lbs 212 kg	420 lbs 191 kg	373 lbs 170 kg	327 lbs 148 kg	280 lbs 127 kg	233 lbs 106 kg	187 lbs 85 kg
30,000G 112,500L	900 lbs 409 kg	850 lbs 387 kg	800 lbs 364 kg	750 lbs 341 kg	700 lbs 318 kg	650 lbs 297 kg	600 lbs 273 kg	550 lbs 250 kg	500 lbs 227 kg	450 lbs 205 kg	400 lbs 182 kg	350 lbs 159 kg	300 lbs 136 kg	250 lbs 114 kg	200 lbs 91 kg
32,000G 120,000L	962 lbs 436 kg	908 lbs 413 kg	854 lbs 388 kg	800 lbs 363 kg	747 lbs 339 kg	693 lbs 317 kg	640 lbs 291 kg	587 lbs 267 kg	533 lbs 243 kg	480 lbs 218 kg	427 lbs 195 kg	373 lbs 169 kg	320 lbs 145 kg	267 lbs 121 kg	213 lbs 96 kg
34,000G 127,500L	1021 lbs 463 kg	964 lbs 439 kg	907 lbs 412 kg	850 lbs 385 kg	793 lbs 360 kg	737 lbs 337 kg	680 lbs 310 kg	623 lbs 283 kg	567 lbs 258 kg	510 lbs 232 kg	453 lbs 207 kg	397 lbs 180 kg	340 lbs 154 kg	283 lbs 129 kg	227 lbs 104 kg
36,000G 135,000L	1080 lbs 490 kg	1020 lbs 464 kg	960 lbs 436 kg	900 lbs 408 kg	840 lbs 382 kg	780 lbs 358 kg	720 lbs 328 kg	660 lbs 300 kg	600 lbs 274 kg	540 lbs 246 kg	480 lbs 219 kg	420 lbs 190 kg	360 lbs 163 kg	300 lbs 137 kg	240 lbs 110 kg
38,000G 142,500L	1139 lbs 517 kg	1076 lbs 490 kg	1013 lbs 460 kg	950 lbs 430 kg	887 lbs 403 kg	823 lbs 378 kg	760 lbs 346 kg	697 lbs 317 kg	633 lbs 289 kg	570 lbs 259 kg	507 lbs 231 kg	443 lbs 201 kg	380 lbs 172 kg	317 lbs 144 kg	253 lbs 117 kg
40,000G 150,000L	1201 lbs 545 kg	1134 lbs 515 kg	1067 lbs 484 kg	1000 lbs 453 kg	933 lbs 424 kg	867 lbs 398 kg	800 lbs 364 kg	733 lbs 333 kg	667 lbs 304 kg	600 lbs 263 kg	533 lbs 243 kg	467 lbs 211 kg	400 lbs 181 kg	333 lbs 152 kg	267 lbs 123 kg



Adding Salt

Approximate Pounds (kg) of Salt Needed to Obtain Ideal Salinity (3,400 PPM)

Current salt level (ppm)	3000	3200	3400	3600	3800	4000	4200	4400
14,000G 52,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
16,000G 60,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
18,000G 67,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
20,000G 75,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
22,000G 82,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
24,000G 90,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
26,000G 97,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
28,000G 105,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
30,000G 112,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
32,000G 120,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
34,000G 127,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
36,000G 135,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute
38,000G 142,500L	OK	OK	Ideal	OK	OK	OK	High	Dilute
40,000G 150,000L	OK	OK	Ideal	OK	OK	OK	High	Dilute

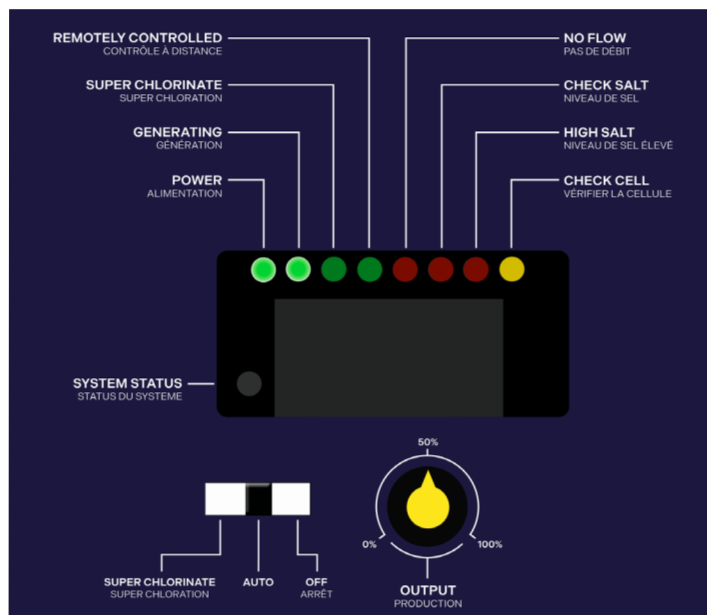
To ensure SaltONE working well, swimming pool stabilizer to protect and extend the life of chlorine generator. Use the chart to see how to reach ideal 80 ppm.

Pounds and (kg) of stabilizer cyanuric acid needed for 80 ppm

Current stabilizer level (ppm)	0 ppm	10 ppm	20 ppm	30 ppm	40 ppm	50 ppm	60 ppm	70 ppm	80 ppm
14,000G 52,500L	9.4 lbs 4.3 kg	8.2 lbs 3.7 kg	7.0 lbs 3.2 kg	5.9 lbs 2.7 kg	4.7 lbs 2.1 kg	3.5 lbs 1.6 kg	2.4 lbs 1.1 kg	1.2 lbs 0.54 kg	0.0
16,000G 60,000L	10.7 lbs 4.9 kg	9.4 lbs 4.3 kg	8.0 lbs 3.6 kg	6.7 lbs 3.0 kg	5.4 lbs 2.4 kg	4.0 lbs 1.8 kg	2.7 lbs 1.2 kg	1.4 lbs 0.64 kg	0.0
18,000G 67,500L	12.0 lbs 5.4 kg	10.5 lbs 4.8 kg	9.0 lbs 2.2 kg	7.5 lbs 3.4 kg	6.0 lbs 2.7 kg	4.5 lbs 2.0 kg	3.0 lbs 1.4 kg	1.5 lbs 0.68 kg	0.0
20,000G 75,000L	13.4 lbs 6.1 kg	11.7 lbs 5.3 kg	10.0 lbs 4.5 kg	8.4 lbs 3.8 kg	6.7 lbs 3.0 kg	5.0 lbs 2.3 kg	3.3 lbs 1.5 kg	1.7 lbs 0.77 kg	0.0
22,000G 82,500L	14.7 lbs 6.7 kg	12.9 lbs 5.9 kg	11.0 lbs 5.0 kg	9.2 lbs 4.2 kg	7.4 lbs 3.3 kg	5.5 lbs 2.5 kg	3.7 lbs 1.7 kg	1.8 lbs 0.82 kg	0.0
24,000G 90,000L	16.0 lbs 7.3 kg	14.0 lbs 6.4 kg	12.0 lbs 5.4 kg	10.0 lbs 4.5 kg	8.0 lbs 3.6 kg	6.0 lbs 2.7 kg	4.0 lbs 1.8 kg	2.0 lbs 0.91 kg	0.0
26,000G 97,500L	17.3 lbs 7.9 kg	15.2 lbs 6.9 kg	13.0 lbs 5.9 kg	10.8 lbs 4.9 kg	8.7 lbs 3.9 kg	6.5 lbs 2.9 kg	4.3 lbs 2.0 kg	2.2 lbs 1.0 kg	0.0
28,000G 105,000L	18.7 lbs 8.5 kg	16.4 lbs 7.4 kg	14.0 lbs 6.4 kg	11.7 lbs 5.2 kg	9.3 lbs 4.2 kg	7.0 lbs 3.2 kg	4.7 lbs 2.1 kg	2.3 lbs 1.1 kg	0.0
30,000G 112,500L	20.0 lbs 9.1 kg	17.2 lbs 8.0 kg	15.0 lbs 6.8 kg	12.5 lbs 5.6 kg	10.0 lbs 4.5 kg	7.5 lbs 3.4 kg	5.0 lbs 2.3 kg	2.5 lbs 1.2 kg	0.0
32,000G 120,000L	21.3 lbs 9.7 kg	18.7 lbs 8.5 kg	16.0 lbs 7.2 kg	13.3 lbs 6.0 kg	10.7 lbs 4.8 kg	8.0 lbs 3.6 kg	5.3 lbs 2.4 kg	2.7 lbs 1.2 kg	0.0
34,000G 127,500L	22.7 lbs 10.3 kg	19.8 lbs 9.0 kg	17.0 lbs 7.7 kg	14.2 lbs 6.3 kg	11.3 lbs 5.1 kg	8.5 lbs 3.9 kg	5.7 lbs 2.6 kg	2.8 lbs 1.3 kg	0.0
36,000G 135,000L	24.0 lbs 10.9 kg	21.0 lbs 9.5 kg	18.0 lbs 8.1 kg	15.0 lbs 6.7 kg	12.0 lbs 5.4 kg	9.0 lbs 4.1 kg	6.0 lbs 2.7 kg	3.0 lbs 1.3 kg	0.0
38,000G 142,500L	25.3 lbs 11.5 kg	22.2 lbs 10.0 kg	19.0 lbs 8.6 kg	15.8 lbs 7.1 kg	12.7 lbs 5.7 kg	9.5 lbs 4.3 kg	6.3 lbs 2.8 kg	3.2 lbs 1.4 kg	0.0
40,000G 150,000L	26.7 lbs 12.0 kg	23.3 lbs 10.5 kg	20.0 lbs 9.0 kg	16.7 lbs 7.5 kg	13.3 lbs 6.0 kg	10.0 lbs 4.5 kg	6.7 lbs 3.0 kg	3.3 lbs 1.5 kg	0.0

By familiarizing yourself with the operation of the SaltONE generator, you can achieve maximum performance for your pool. When chemical levels are in the recommended range, there are FOUR factors that you can control. Filter time each day, amount of salt in the pool, the output of chlorine you set, and stabilizer level in the water will directly impact the amount of chlorine the SaltONE will generate.

When you just begin to set the model, it will take you days to find ideal chlorine output, you can start at a high setting and then turn down.



Indicators and Diagnostic Displays

Power: Power illuminate, model is in power.

Generation: Model in normal operation, the LED will be steady. If it is flashing, check the pool water chemicals.

Super chlor: The generator runs at 100% capacity which can produce enough chlorine to clear up moderate cloudiness, but the generator is forced to overwork. It will be automatically switched to the original output after 24- hour SUPER CHLOR operation.

Remote: Controlled by remote models (not available).

Check cell: If "Check Cell" LED is flashing and salt level is above 2700ppm, 500hrs cell count down timer is active. Once cleaned, hold down "System Status" button (3-5 seconds) to reset timer for 500hrs.

High salt: When it is on or flashing, SaltONE is warning that the water salinity is too high to work.

Check salt: When it is on or flashing, SaltONE salinity is too low to work.

No flow: When it is on, flow switch will be detected that there is no flow through the cell. If it is flashing, the flow is restored.

Diagnostic display

Average Salt Level (default as 2800ppm)

01. Water Temperature (xx degrees Fahrenheit or Celsius)
02. Cell Voltage (20-30VDC)
03. Cell Amperage (How is the cell working, fine or not)
04. Desired Output % (% of cell time ON)
05. Instant salinity
06. Product name sent to the pool automation Control display (ALO-5=product branding)
07. Software revision level
08. Cell type (Error Code Correspondence):
 - H-3: S1-C3(X),
 - H-5: S1-C5(X),
 - H-9: S1-C9(X),
 - H-15: S1-C15(X)
09. Salt Calibration (E000)
10. End of the loop (-EE)

Recalibrating your salt

If your water test reading differs from what the system is showing, then you may need to recalibrate the system. The very first time you calibrate your system, the display will read «E000».

Once calibrated, the display will show «E***».

If you've recalibrated your system before, the display will show your last reading. For example, if it shows E800, then the last time we calibrated the system, you added 800PPM into the pool.

01. Move the Super Chlorinate switch to OFF.
02. Hit the «System Status» button nine times until you find «E***» on the display board.
03. Move the «Chlorine Output» dial to 100% then down to 50%. The «E» should begin to flash. When you see the «E» flashing, you can set the dial to 0%-50% or 50%-100%.
04. Press the «System Status» button once to set.
05. You are finished when you see «-AA».

Spring Start-up

When reopening the pool after long term, check all water chemistry before power on the SaltONE.

Maintenance

When checking other water chemistry levels, always monitor the salinity level of the swimming pool. After the system runs for a period of time, it will eventually need to clean the cells due to the scaling of natural minerals. You will be notified by opening «CHECK CELL» Light. When lit, cleaning the cell with a cleaning stand is better.

Important information: The frequency of cleaning depends on your water chemistry and water saturation index. For most people, only need to clean a few times per season. Faster mineral accumulation must be long-term high saturation index, chemical imbalance may lead to rapid fouling. Consult Swimming pool professionals.

How to clean the cell?

Important information: If there is severe mineral accumulation, more than one cleaning may be required to dissolve the remaining solids. After cleaning, carefully inspect the cell plate with bright light. If you see any remaining scale, debris or physical blocked in the salt cell, please repeat the cleaning process as needed. If it is «check cell» come back soon after cleaning.

01. Confirm that the salinity is within the range.
02. Ensure that the cell is fully filled with water.
03. Verify the cell type setting of the system.

Before removing the cell for cleaning or replacement:

01. Turn off all power sources of all swimming pool equipment and close the water supply line valve (if applicable).
02. Unplug the cell cable connecting to the control box.
03. Loosen the threaded ring around the joint at the junction of the pool and the pipes.

To clean the cell with mineral deposits:

01. Cleaning stand and adjust the direction of the cell vertically. Place on the ground and stabilize to keep it upright.
02. In a separate bucket, mix one part of muriatic acid with four parts of water. Pour this acid solution directly to cell. Make sure that the cleaning water completely covers the components inside the cell.
03. Wait for the foaming to stop. Let the solution soak for no more than fifteen minutes.
04. Properly dispose of the acid solution, and use a hose to wash away the remaining debris from the pool.
05. Look inside the unit and check if there is no debris or scale residue. If necessary, repeat steps 2-4.
06. Re-install the cell into the PVC return pipe.

NOTE -

If you do not currently have a cleaning cap or cleaning rack, you can fully immerse the cell in a five-gallon bucket.

ALWAYS POUR ACID INTO WATER, NEVER POUR WATER INTO ACID. BE SURE TO WEAR PROTECTIVE GLASSES, CLOTHING, AND CHEMICAL RESISTANT GLOVES.

Before installation, make sure all the water chemistry is in normal range. Using 2-inch pipes and should be performed by qualified personnel in case there is a 1.5-inch pipe, a reducer can be used to fit the system; be sure to pay attention to any changes. Check each measurement carefully before cutting.

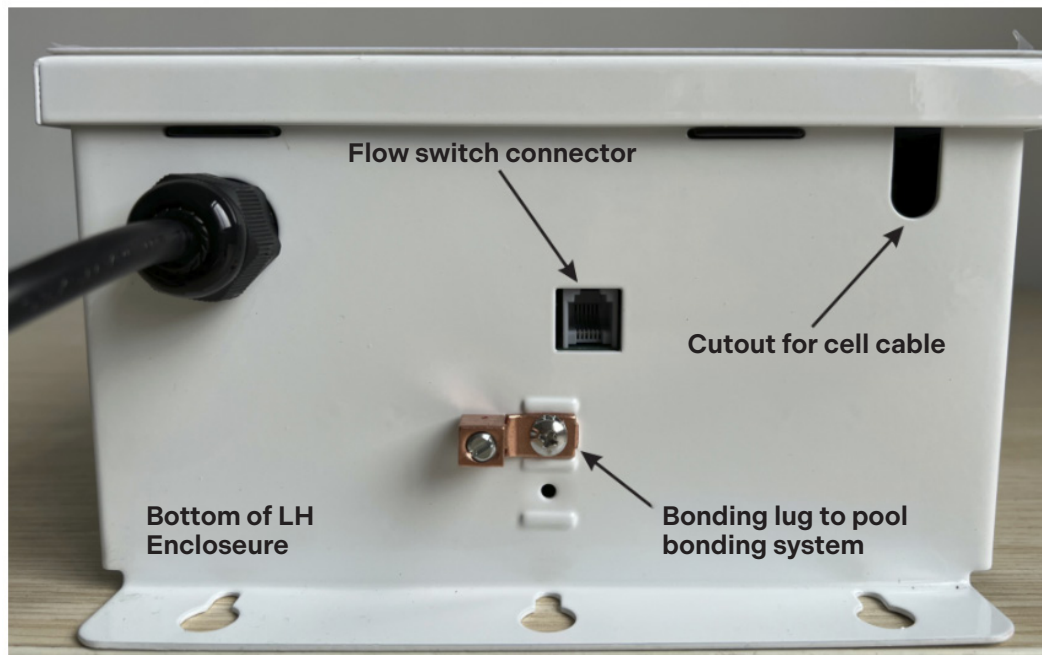
Mounting the SaltONE Control

Install the control box as close as possible to the pump and filter system. For safety reasons, please do not install the control box within 10 feet of the edge of the pool and comply with all applicable regulations. Verify cell and flow switch cable can reach the control box.

As with most electronic devices, avoid using the controller above the heater or in a tightly enclosed or insulated space can avoid excessive heat accumulation and also avoid being close to acid chemicals, it may damage the control. Use screws to fix the mounting bracket of the control box on the wall or vertical bracket comfortably horizontally. At least 3 feet above the ground. Hang the control on the bracket.

Mounting the Flow Switch, and Cell.

Flow switch, confirm that the arrows on the flow switch (located on the side) point in the same direction of water flow. The Cell and Flow Switch cables have easy plug-in connectors in the control, the diagram below for the location of these connections.



Plumbing

These instructions apply to 2-inch pipe (typical). Make sure to choose with existing pool pipe size (1.5 inches or 2 inches), and discard other unnecessary joints.

For articulated connections, you will also use the included 2" to 1.5" reducer bushing to accommodate the flow switch. For 1½" installations, be sure to pay attention to any new or other measurements before cutting the tube.

Overview

All service should only be attempted by a person with appropriate electrical skills needs to be licensed electrician only, with all equipment disconnected from power. The factory setting is 110-120V, if you need 220-240V, please move the internal jumper as below.

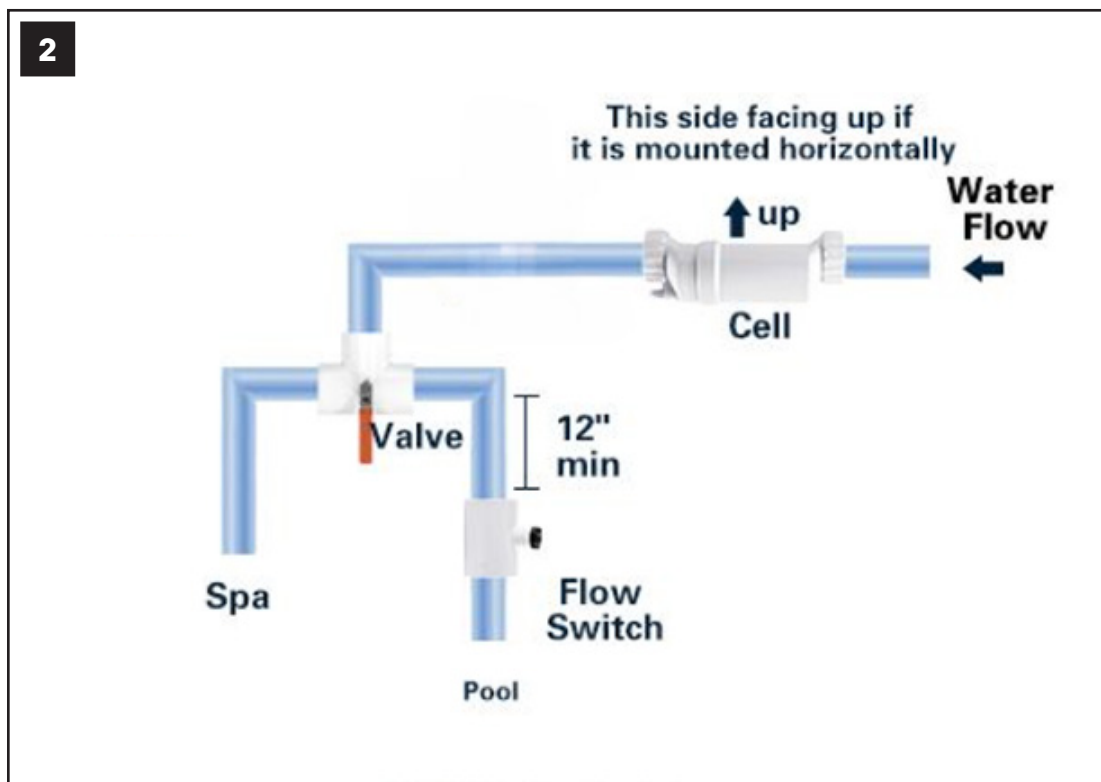
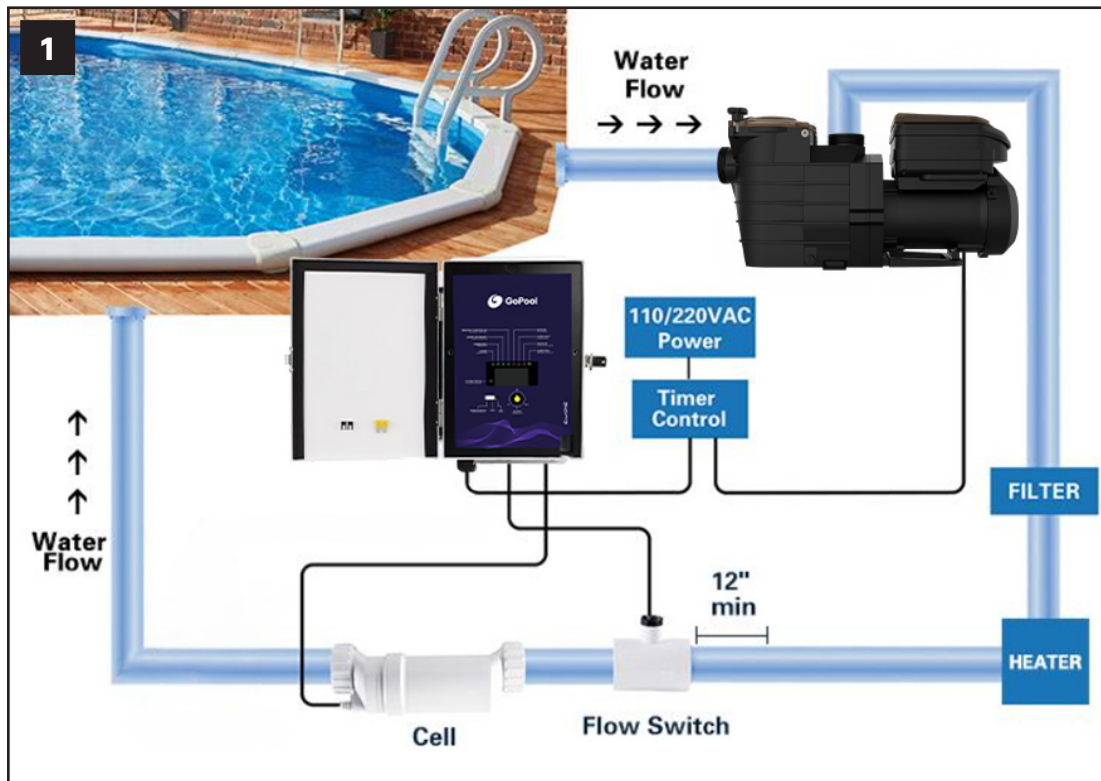
Jumper configuration

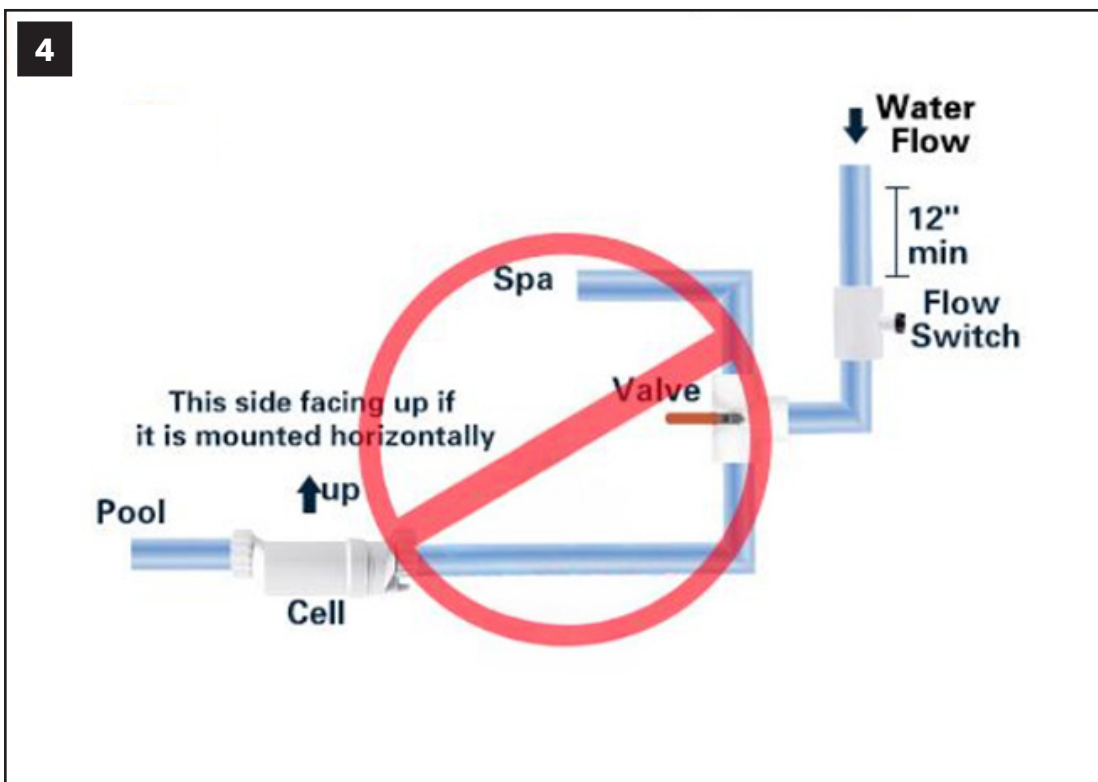
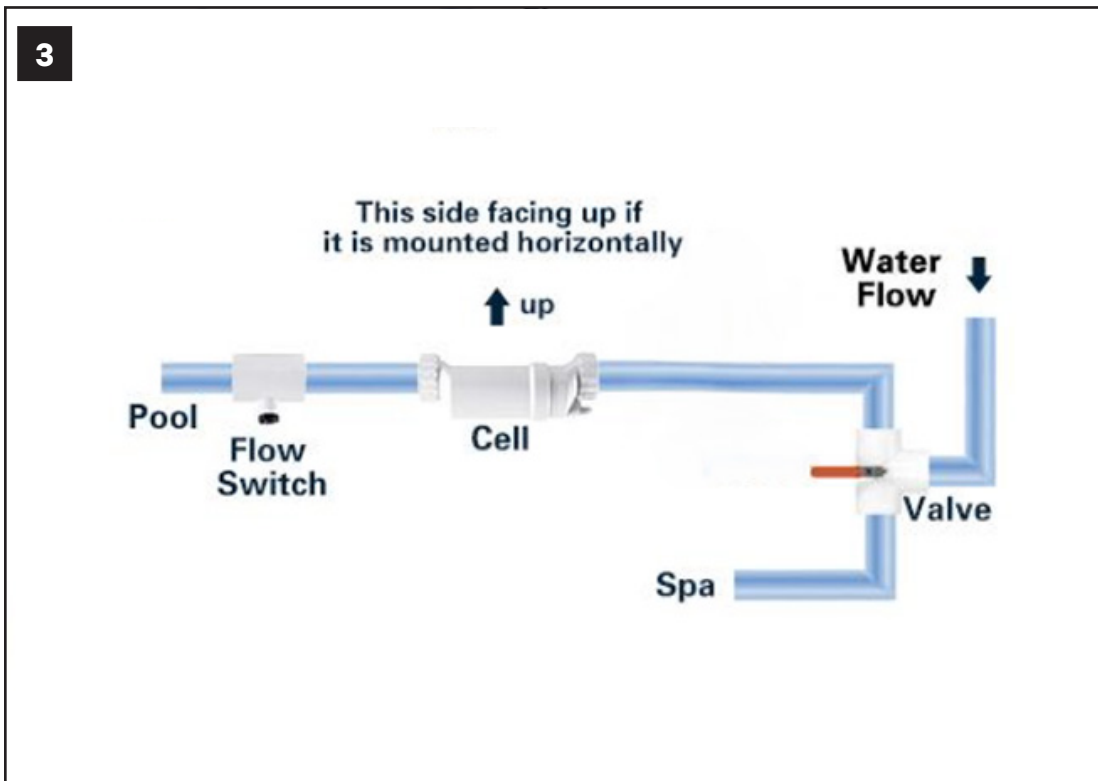
**Factory Set for
220-240V**



**Factory Set for
110-120V**







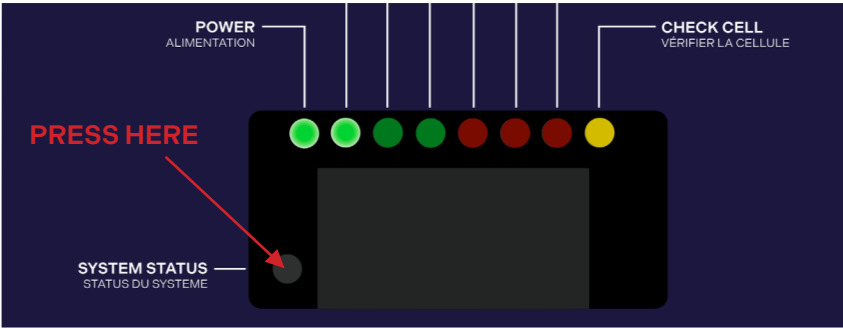


IMPORTANT

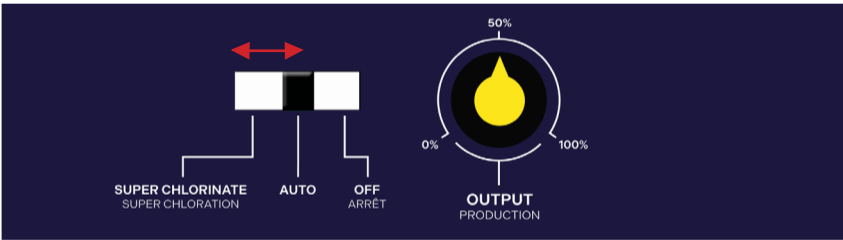
Once you power on the system (Plug it into the power source), first thing you need to do is verify the panel and cell type are properly mapped configured. The panel can be configured to use 4 different cell outputs.

Procedure:

01. Press the system status button to the left of the display screen 7 times until the display shows either of these values: H-3, H-9, C-9, H-15, C-15



02. Using the SUPER CHLORINATE / AUTO / OFF switch, move the button from the AUTO position to SUPER CHLORINATE then back to AUTO quickly to cycle through the different options. Note that it is possible that the panel is already correctly configured. Use the table below to select the proper setting for your system. When the proper setting is displayed, leave the slider on the AUTO setting. You are done!



Choose the right setting according to your system output

Setting	GoPool System	Cell model
H-3	S1-C3(X)	S1-CELL-3(X)
H-5	S1-C5(X)	S1-CELL-5(X)
H-9	S1-C9(X)	S1-CELL-9(X)
H-15	S1-C15(X)	S1-CELL-15(X)

One / two year limited warranty (for residential use)

Guarantee that SaltONE will be free from defects in materials and workmanship, defects in normal use and non-commercial applications within one (1) year.

Proof of purchase is required. This limited warranty is limited to the original purchaser of the SaltONE system and is not transferable. SaltONE is intended to be used in residential swimming pools and the warranty schedule is as follows.

- One (1) year limited warranty for the SaltONE and its components.
During year one: 100%

Warranty (for commercial use)

The SaltONE Salt Chlorinator Systems carry the following Limited Warranty should failure occur due to faulty manufacture or materials, during normal use and service. For Commercial use (any pool that is not for private single-family use, or the use of which is subject to regulation), we warrant to the original purchaser that the equipment shall be free of manufacturer's defects at the time of sale, and upon examination shall provide replacement parts in accordance with the following schedule:

- One (1) year limited warranty for residential use, but for commercial use 6 months only.

Terms of sale: If, after receiving this item you discover that it was not the one you wanted, simply return it for a full refund within 30 days. You will have to pay for the return shipping charges. Refund is void if you have installed, used or damaged the item in any way. Item must be returned with its original box, packing materials and instructions (if applicable) in the same perfect new condition. Cleared Payment via PayPal must be received within 3 days of transaction and prior to shipping.

This limited warranty is subject to the following terms, conditions, and exclusions:

01. To obtain the benefits of this warranty, contact the warranty department for troubleshooting.
02. Should a defect in any item or part covered by the warranty become evident during the warranty's term, Products will at its sole discretion repair or replace such item or part. Products reserves the right to replace defective parts with new or refurbished parts. This warranty does not include the cost of labor or transportation charges for equipment or component parts to or from Products, or the removal, reinstallation, or any such costs incurred in obtaining warranty replacements or repairment.
03. This warranty extends to the original retail purchaser and original installation site only, beginning at the original date of purchase, and is non-transferrable.
04. The warranty contains the following exclusions. O-Rings, rubber gaskets, electrical fuses, and circuit-breaker components are normal replacement items subject to wear and are excluded from the warranty.

Product discoloration, or any other cosmetic or superficial damage or deterioration, regardless of its cause, is not covered by this warranty. The warranty is not applicable to problems arising from circumstances outside the control of Products, including, but not limited to the following:

01. Damage or premature wear due to improper pool chemistry, and failure to maintain pool water chemistry in accordance with the recommendations contained in the owner's manual.
02. Damage due to improper installation or connection to improper voltages, including materials and workmanship supplied by others.
03. Damage due to negligence or failure to properly maintain equipment, including the maintenance of clean and tight electrical connections.
04. Damage due to improper service, as well as unauthorized equipment modifications and use of non-genuine replacement parts.
05. Damage due to misapplication, misuse, abuse, overuse the cell lifetime (over 10 hours per day) or failure to operate equipment as specified in the owner's manual.
06. Problems resulting from tampering, accident, fire, flood, freezing, lightning, insects, or other natural elements, or other circumstances beyond the control of Products.
07. Damage due to over-tightening of threaded components or excessive pressure or stress.
08. Material supplied or workmanship performed by others in the process of installation.

The liability of Products shall not exceed the repair or replacement of defective items or parts under the referenced limited warranty terms. There are no implied warranties of merchantability or fitness for a particular purpose that apply to this equipment. Under no circumstances shall Products, its agents, employees, and affiliates be liable for any loss, damage, injury, inconvenience or loss of time, incidental expenses such as labor and material charges, or any other incidental, or consequential damages, which may result from the use, installation, removal, or reinstallation of its equipment and parts.

This warranty is valid only in the United States of America. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. This warranty supersedes all previous publications. Any dispute between the original purchaser and Products will be settled by binding arbitration, conducted in Mecklenburg County, NC, under the rules of the American Arbitration Association.

Disclaimer: This limited warranty is the entire warranty. No other warranties apply, expressed or implied. This limited warranty gives you specific legal rights, which varies accordingly from state to state. Under no circumstances shall the manufacturer or authorized agents/installers be responsible for consequential, special, or incidental damage(s) of any kind, including but not limited to personal injury. Property damage or damage to or loss of equipment. The manufacturer or agents/installers are not liable for any other expenses that may be encountered during installation or servicing. Authorized agents/installers may charge a trip fee for warrant-able service work.

Some states do not allow the exclusion of limitations of incidental or consequential damages. Listed exclusions and limitations may not apply to you.

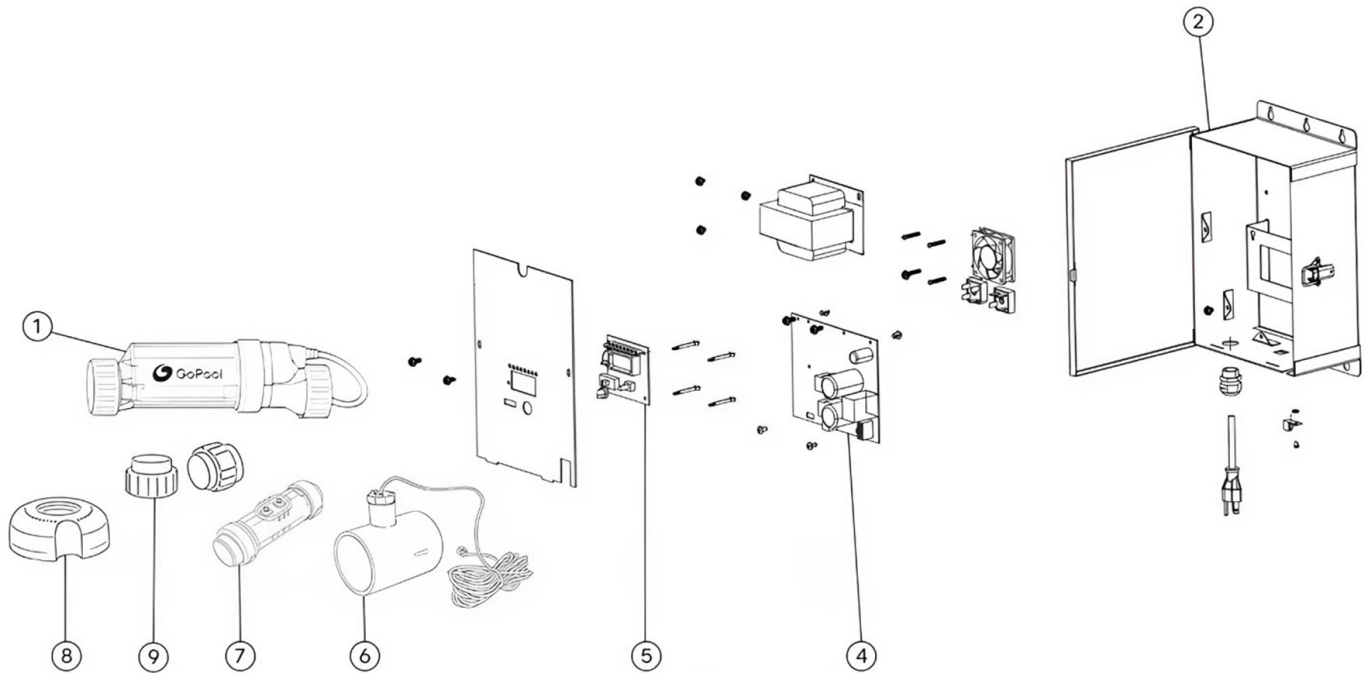
During the full coverage warranty process, we cover all replacements, repairs and labor cost. The customer is responsible for shipping to and from our warranty center.



Problem	Possible cause	Solution
Start the SaltONE without reaction, no display	Check the power connection.	• Use test pencil to check if there is electricity • Change the socket • Check the wire connection • Check the overload protection device
	Check the fuse.	If fuse blow out, replace it.
	If the PCB board just be replaced.	• Check the connection of the PCB is right or wrong. • Check the transformer to see it is good or not.
«NO FLOW» light on	No flow or too little low.	Check if pump is connected, if use variable speed pump, speed up the water flow. Keep flow rate at least 25-30 GPM.
	Wrong flow direction.	Remain the flow direction same as the arrow outside the flow switch.
	Flow switch or crystal plug is broken.	Change the flow switch.
«NO FLOW» light is blinking	Start the machine, it is normal that the light blink because it need time to detect the water flow.	Normal
	Variable speed pump, water flow too slow.	Change the flow switch.
«Inspect Cell» light is flashing	The machine worked around 500 hours.	Press the «System Status» button for 3 seconds to stop.
«Generating» light is flashing	Check the temperature in the swimming pool is whether too high or too low.	Check the temperature, water temp should be above 55°F, less than 122°F.
«Check Salt» and «Inspect Cell» light on	Check cell type.	Match the right cell type with the program.
	If use variable speed pump, water flow too slow.	Speed up the water flow.
	Actual Salinity is less than 2300PPM.	Add salt, ideal salt level 3500-3600ppm.



Problem	Possible cause	Solution
«Check Salt» and «Inspect Cell» light on	Cell is blocked.	Clean the cell.
	Temperature sensor is broken.	If not, replace flow switch with a temperature sensor.
	PCB or cell may is broken.	Contact distributor.
«Check Salt» light is flashing	Check cell type.	Match the right cell type with the program.
	Actual Salinity is between 2300-2500PPM.	Add salt, ideal salt level 3500-3600ppm.
	Cell is blocked.	Clean the cell.
«High Salt» light blinking	Check cell type.	Match the right cell type with the program.
	Actual Salinity is between 4500-6400PPM.	Add water, ideal salt level 3500-3600ppm.
	Temperature sensor is broken.	If not, replace flow switch with a temperature sensor.
	The cell plates are short-circuit because they are not fixed in the housing.	Change the cell.
	PCB is broken.	Change the PCB.
Low or no Chlorine in pool	The water temp too high or too cold.	Check the temperature, water temp should be above 55°F, less than 122°F.
	PH not normal, the water in alkalinity will influence the chlorine.	Keep PH 7.2-7.7
	Bad water quality has large quantity of microorganism or germ will consume the chlorine.	Change good quality water.
	With chemistry, like Chemical Fertilizers and Pesticides.	Ensure all chemicals on page.6 are within range.



Ref. No.	Part No.	Description	Quantity
1	S1-CELL-3	3-Plate Cell	1
1	S1-CELL-5	5-Plate Cell	1
1	S1-CELL-9	9-Plate Cell	1
1	S1-CELL-15	15-Plate Cell	1
1	S1-CELL-3X	3-Plate Cell (Extended Life)	1
1	S1-CELL-5X	5-Plate Cell (Extended Life)	1
1	S1-CELL-9X	9-Plate Cell (Extended Life)	1
1	S1-CELL-15X	15-Plate Cell (Extended Life)	1
2	S1-CONT	Control Box	1
4	S1-PCB-MAIN	Main PCB Board	1
5	S1-PCB-DISP	Display PCB	1
6	S1-FS-KIT	Flow Sensor	1
7	S1-DUMM	Dummy Cell	1
8	S1-SUPP	Cell Holder	1
9	S1-UKIT20	2" Union Fitting Assembly	1
9	S1-UKIT15	1,5" Union Fitting Assembly	1

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Need parts or accessories ?
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