

SC Series  
**PORTABLE SMART SALT CHLORINATOR**  
Working Independently Of Pool Pump

## INSTALLATION AND USING INSTRUCTION



### ⚠ WARNING

HEAVY POOL USAGE AND HIGHER TEMPERATURES MAY REQUIRE HIGHER CHLORINE OUTPUT TO MAINTAIN PROPER FREE AVAILABLE CHLORINE RESIDUALS.

IF ADDITIONAL CHLORINE IS REQUIRED DUE TO HEAVY BATHER LOADS, USE EXTRA CHLORINE TO MAINTAIN AN APPROPRIATE CHLORINE RESIDUAL IN THE WATER.

MAINTAINING HIGH SALT AND CHLORINE LEVELS ABOVE RECOMMENDED RANGE CAN CONTRIBUTE TO CORROSION OF POOL EQUIPMENT.

DO NOT PERMIT CHILDREN TO OPERATE THE DEVICE.

FOLLOWING ALL ASPECTS OF THE LOCAL ELECTRICAL CODE(S) AND ANY APPLICABLE REGULATIONS WHEN INSTALLING THIS DEVICE.

**THIS MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE INSTALLATION, OPERATION AND SAFE USE OF THIS PRODUCT. ONCE THE PRODUCT HAS BEEN INSTALLED THIS MANUAL MUST BE GIVEN TO THE OWNER / OPERATOR OF THIS EQUIPMENT.**

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**⚠ WARNING:** Make sure the power supply is unplugged from the wall outlet when using pool.

**⚠ WARNING:** Keep equipment out of reach of children.

**⚠ WARNING:** When installing and using this electrical equipment, always follow basic safety precautions.

**⚠ WARNING:** Do not operate with a damaged cord or power supply.

**⚠ WARNING:** Before performing installation or service, disconnect all power.

**⚠ WARNING:** Make sure the power supply is unplugged from the wall outlet when cleaning/servicing the cell assembly.

**⚠ WARNING:** Not running the pool pump enough may damage body safety and amenity.

**ⓘ ATTENTION:** For swimming pools, Australian standards recommend a minimum of 1 Part Per Million (ppm) of free available chlorine must be maintained at all times.

**ⓘ ATTENTION:** Professional installation recommended. This appliance is not intended for use by person with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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## GENERAL

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LODORE Portable Salt Chlorinator can run itself without pool pump working, so that it effectively minimizes the running time and cost of the pool pump.

LODORE Portable Salt Chlorinator produces a pure form of chlorine by electrolysis of salt (NaCl) in order to sanitize your pool water. After the salt is converted to chlorine and the bacteria are killed, the chlorine converts back to salt and this process is ongoing. The salt concentration used is very low (less than what in a human tear).

Chlorine output can be easily adjusted by the timer and adjust switch on the Control Unit. The chlorine level in your pool can be checked by using a standard chlorine test kit.

## SPECIFICATIONS

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<b>Model:</b>	SC-3, SC-3A, SC-EX	<b>Volts:</b>	12VDC
<b>Description:</b>	CELL Unit	<b>Freq:</b>	N/A
	Mini Pump	<b>Amps:</b>	0-20A
	Controller Unit	<b>Target Output:</b>	25 g/h, 30 g/h, 45 g/h

## INSTALLATION

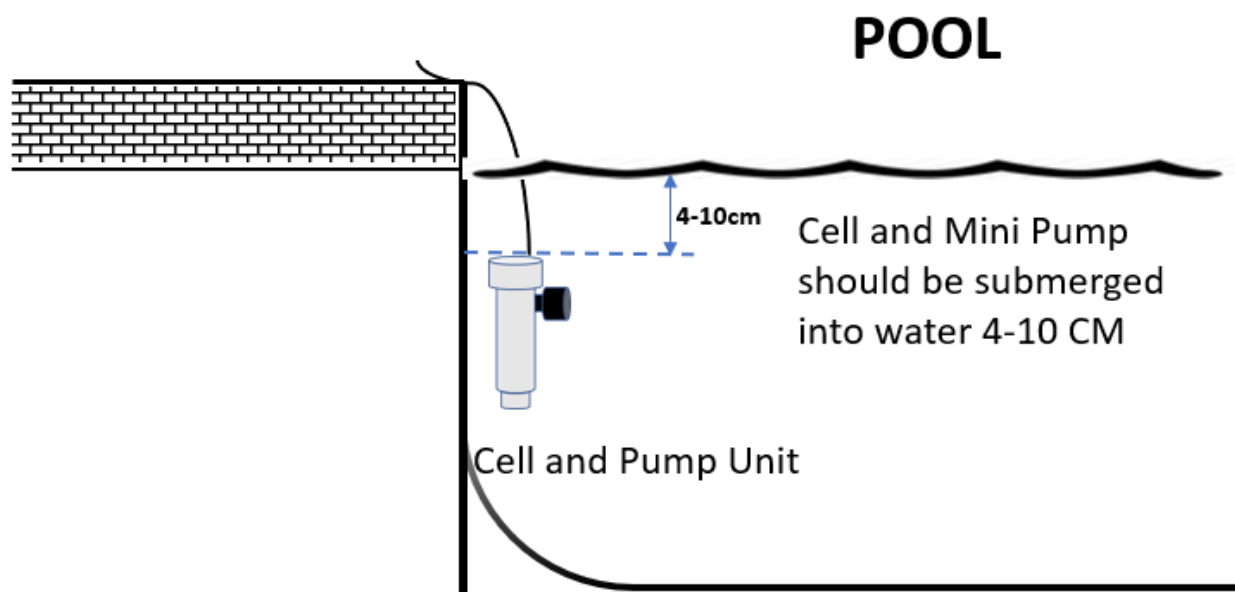
1. Before installing the system in the swimming pool, must have all the pool chemistry balanced, including salt level and a residual of free chlorine. (See Chart 1)

**Chart 1**

Factors Effecting Pool Chemistry	Maintain Levels Daily
Salt	2000 – 5000 ppm
PH	7.2 – 7.8
Free Chlorine	1 – 3 ppm
Total Alkalinity	80 – 120 ppm based on the Saturation Index
Cyanuric Acid	30 – 80 ppm
Saturation Index	0 +/- 0.3
Phosphates	0
Nitrates	0
Metals	0
Calcium	200 – 300 ppm

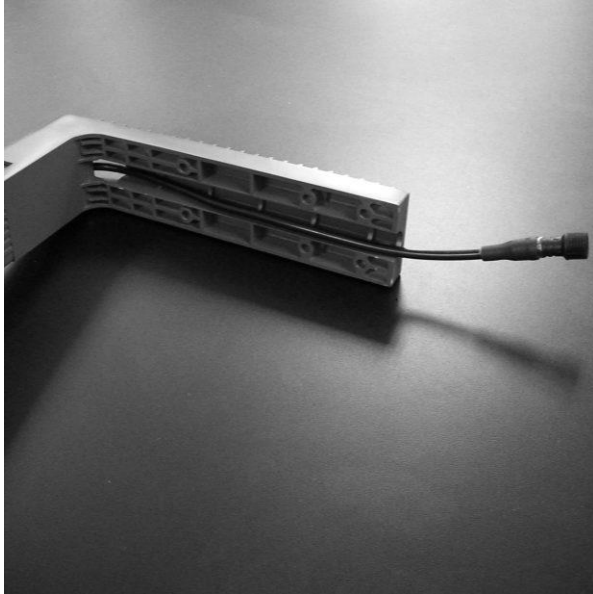
2. Drop the Cell and Pump Unit gently and MAKE SURE THE CELL AND PUMP UNIT ARE SUBMERGED INTO WATER 4 – 10 CM. Try to locate an area covert such as a corner. (See Figure A)

**Figure A**

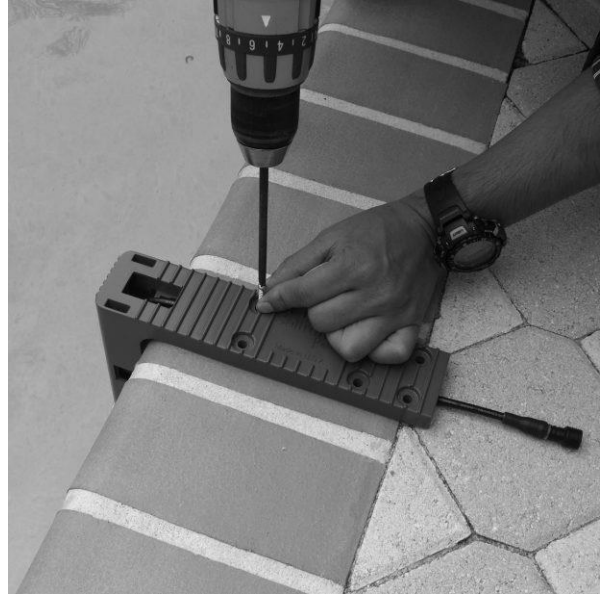


3. Pull the cable of Cell Unit and loop through the Hanger. (See Figure B)
4. Affix the Hanger directly on the pool edge by screwing. (See Figure C)

**Figure B**

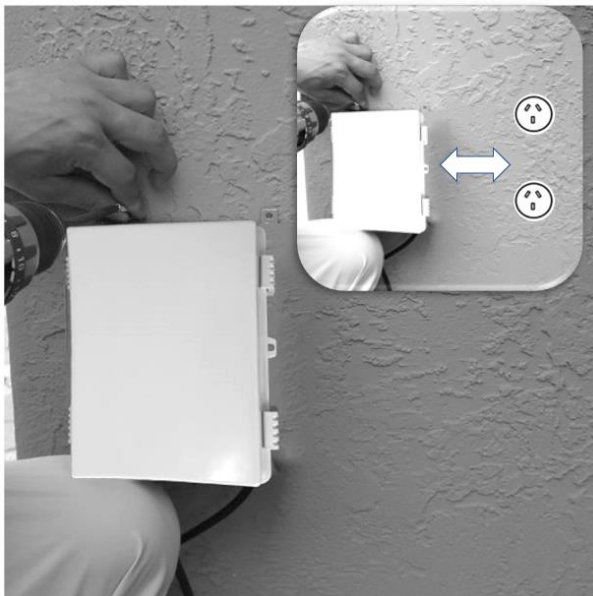


**Figure C**

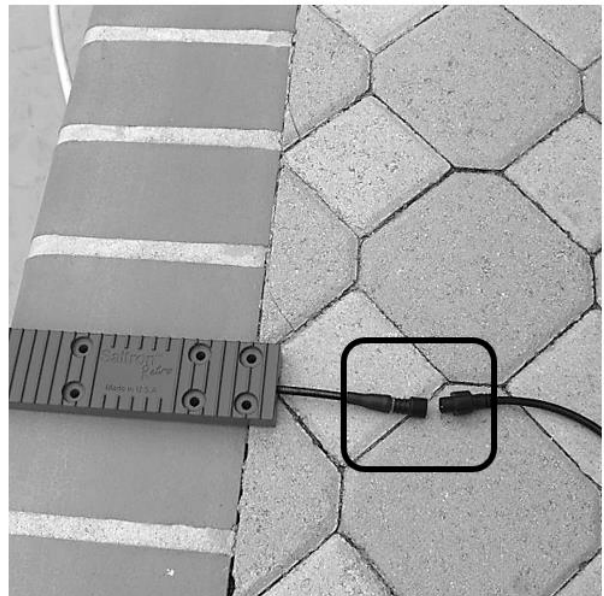


5. Affix the Control Unit to a wall or a post near the pool in a shaded area. (See Figure D)
6. Connect the cable connector of Cell Unit securely into the cable connector of the Control Unit. (See Figure F)

**Figure D**



**Figure F**



### ⚠ Attention:

This system is designed to automatically generate the chlorine for your pool. It is very important to note that chlorine is just one component of your pool chemistry. Please make sure your pool meets the optimum chemistry levels in the following Pool Chemistry Chat. Test your water weekly or take a water sample to your nearest pool store. Maintaining these levels will maximize the life of this product. Be sure to inform the pool professional that you are using a chlorine generator.

## OPERATION


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### SETTING TIMER / MODES


This Chlorinator has a timer enabling you to turn on the Chlorinator and set periods in which the chlorinator will operate. Different operating periods can be set according to different seasons and climate.

#### **A. Modes:**

**Use the following user mode buttons to turn on and off this Chlorinator, and set periods:**

**ON:** Slide the switch to the  icon. The Chlorinator will run continuously according to how you have set the timers.

**OFF:** Slide the switch of timer to the  icon to turn off the Chlorinator. In this position there is no chlorine generation.

**Timer:** Slide the switch of timer to the  icon to set timer. To set timer, do the following:

#### **B. Timer Setting**

1. Slide the switch to the CLOCK icon
2. Rotate the timer dial until the pointer points to the current time;
3. Push the time tabs down for the time periods you wish the Chlorinator will operate;

### CHLORINE OUTPUT

The Chlorine Output Control area of the user panel has two main functions:

1. Setting the chlorine output level of the chlorinator by twisting the Chlorine Output rotary switch. The chlorinator output can be set from levels 0 through to 20.
2. Chlorine Output display shows the level set. Level 0 – 7 applies to Spa Mode; Level 5 – 12 applies to Above Ground Pools, and Level 10 – 20 applies to In-Ground Pools.

### **⚠ Attention:**

**Level 0 does not mean the Chlorinator is in off position. The Chlorinator is still working with Level 0 setting, and be ready to produce chlorine at any time when the chlorine output level is set differently. DO NOT USE LEVEL 0 AS TURN OFF.**

### EXTREME CHLORINATE

When you have an abnormally high bather load, a large amount of rain, a cloudy water condition, or any other condition which needs a large amount of purification to be introduced, set the Chlorinator at Level 20 for 24 hours. Filter pump is recommended to be on during this time. At the end of the super chlorinate time, be sure to set the timer and chlorine level back into the normal position.

### CHECKING CHLORINE LEVEL

Ideally, check your Chlorine level after the morning operating period. The free chlorine residual level should be somewhere between 1 and 3 parts per million. Increase or decrease the output of the Chlorinator to get the right residual chlorine level. It may also be necessary to adjust the operating period if you are running at minimum or maximum output.

### CHECKING SALT LEVEL

The correct salt level is important to cell life and the effective operation of your chlorinator. Salt level should be maintained around 4,000ppm. The salt level should never be allowed to fall below 2,000ppm, and is not allowed to be higher than 5,000ppm.

## **CELL MAINTENANCE**

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### **Inspecting the Cell:**

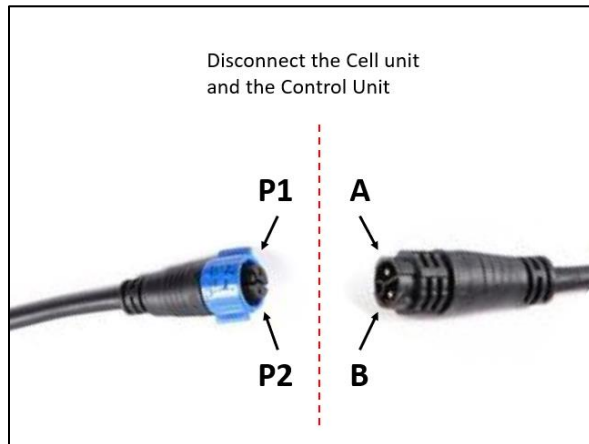
The cell should be inspected every 3 months. Inspect the cell for scaling (white, sugar-like) deposit. If scaling exists, the cell should be cleaned.

### **Cleaning the Cell**

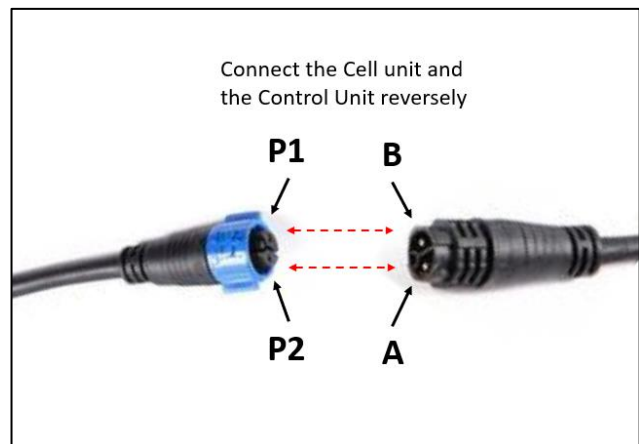
This Cell unit has self-cleaning function. To clean the Cell, do the following:

1. Switch off this Chlorinator by sliding the timer to OFF position and disconnect the power supply.
2. Disconnect the cable connector of Cell Unit and the cable connector of the Control Unit. (See Figure G)
3. Connect REVERSELY the cable connector of Cell Unit into the cable connector of the Control Unit. (See Figure F)

**Figure G**



**Figure F**



**⚠ Attention:**

Long-term using under very low water temperatures (below 10°C) may damage the Cell and shorten the cell life and may void the warranty.

**TROUBLE SHOOTING**

Indication	Potential Cause	Solution
<b>LED screen display blank (black screen)</b>	Power supply disconnected (no power to controller)	Plug in controller and ensure mains power available
	Timer is in OFF position	Check timer setting
<b>LED screen only display Level 0</b>	Cell cable may not be connected	Check all connections
	Cell and pump unit is not submerged into water	Check cell unit position
<b>LED screen cannot display any level exceeding 8</b>	Salt level in pool has dropped too low	Take a water sample to the pool shop to see if your salt or mineral levels need topping up. Please note that this can be affected by low water temperatures. If the water temp is below 10°C it is imperative that you check the salinity before adding extra salt/minerals
	Pool water temperature is low	
<b>When twisting the Chlorine Output rotary switch maximum, LED display the level exceeding 20</b>	Salt level is too high	Drain water out of your pool, and refill the pool with fresh water

## **WARRANTY**

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LODORE POOL PRODUCTS as manufacturer, warrants each LODORE product unit delivered to the original consumer/purchaser to be free from defects in material and workmanship under the intended normal use as described in LODORE pool product installation and operating instructions enclosed with each unit, for a period of THREE years from the date of purchase.

During the warranty period LODORE POOL PRODUCTS agrees to repair or, at its own option, replace the unit or any part of it without charge for labor or parts. This warranty shall not apply if the unit is subjected to misuse, neglect or accident.

Please refer to the detailed LODORE products warranty booklet available at LODORE website [www.lodore.ca](http://www.lodore.ca).

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