WATER BALANCE - Water balance requirements:

Salt 4000ppm – 6000ppm
Total Alkalinity 90 ppm – 150 ppm
Chlorine 1.5 ppm – 2.0 ppm
pH 7.2 – 7.4
Cyanuric Acid 40 ppm – 65 ppm

CLEANING

Reverse Polarity Chlorinators have self-cleaning cells which means the maintenance required is minimal. In exceptional cases, when the calcium content is abnormally high, the chlorination may not totally remove all of the deposit. In this case the calcium level must be adjusted to normal levels and the cell must be cleaned.

Procedure: Turn off the chlorinator, disconnect cell cable, and remove cell. The dirty cell should be placed in a container with hydrochloric acid (HCl) solution: 8 parts water to one part of HCl (30-33%). Calcium deposits will react with the HCl — producing gas. When gas production has stopped, it means that the cell is completely cleaned and all the calcium has dissolved. Rinse in fresh water as soon as possible — Leaving the cell in HCl solution for a longer period will damage the cell! When cleaning is complete, dry the connections and reinstall.

SPECIAL NOTE

The chlorine production is regulated with the output control and daily running time. Your chlorinator manufactures chlorine at a constant rate (i.e. the SM20 produces 20 grams of chlorine per hour), and this is ideal for routine daily chlorination.
If during peak use the pool water looses its sparkle and looks “tired”, it probably needs to be “shocked” or super chlorinated.
In situation such as this we recommend the use of liquid chlorine or sodium dichlorois cyanurate, (sodium dichlor) to supplement and maintain chlorine levels.

The use of powdered calcium hypochlorite chlorine is not recommended.

If the residual chlorine in the pool is low, check:

a) chlorinator is not working long enough

b) the level of the chlorine stabiliser is too low

c) the cell needs to be cleaned

d) the pH of the water is too high

e) salt level too low

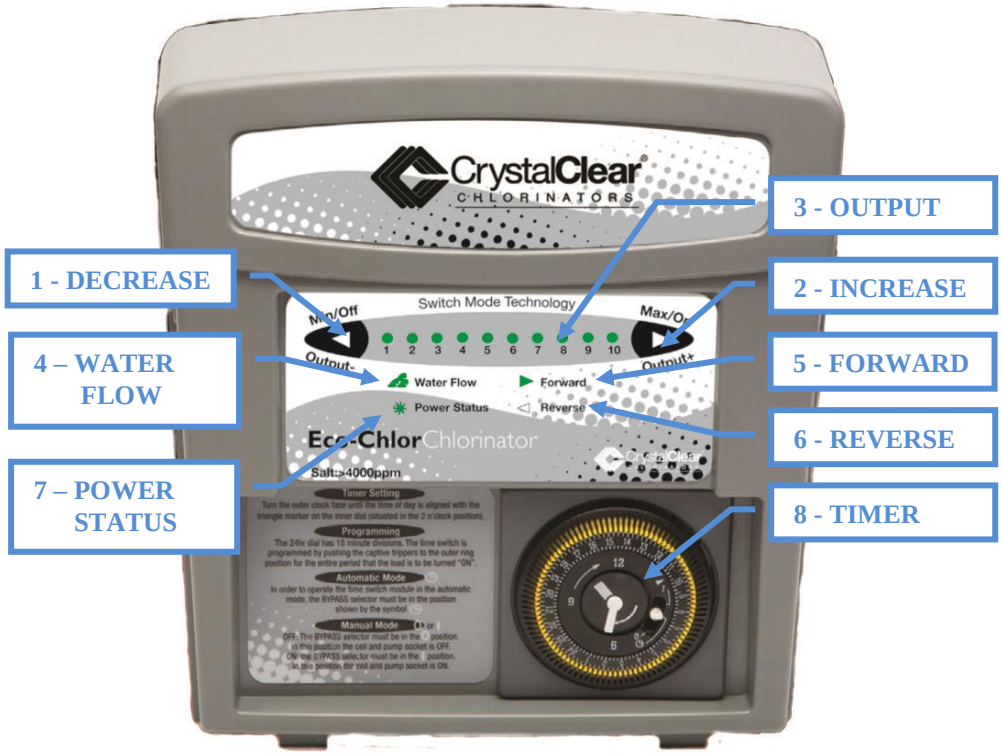
WARNING: Do not open unit - LIVE Components inside - danger of electric shock.
If supply cord is damaged, it shall be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid a hazard.

WARRANTY

Chlorinators (models SM15, 25, 35 and 45 will have twenty four (24) months warranty for the Power pack and 5 years pro-rata for the cell, in an 8 hr per day domestic installation.
In a commercial installation both power pack and cell are twelve (12) months . Power packs are exchanged and electrodes need to be returned to the manufacturer.
This warranty applies to the original purchaser and is not transferable. All chlorinators are fully factory tested, prior to being packed. If within twenty four (24) months of purchase, mechanical or electrical faults do occur due to bad workmanship or faulty components, then such parts will be repaired or replaced. No replacement part will be provided without the return of the defective components. The manufacturer will not be liable of any consequential loss or damage caused by operation outside the prescribed limits as outlined in our instruction manual, incorrect installation, connection to incorrect power supply, changing internal wiring for tariff connections, misuse, abuse, negligence, accidental damage, normal wear and tear, or damage caused by water entry. In case of failure the complete unit should be returned to the manufacturer or distributor. Forward and return freight costs are the responsibility of the owner.

Thank you for choosing a SM Series salt water chlorinating system for your swimming pool.

Eco-Chlor SM CHLORINATOR by Crystal Clear Chlorinators



EXPLANATION OF FUNCTIONS: POWER SUPPLY

BUTTON 1 - Single press of this button decreases chlorine production by approx. 5%. In order to turn OFF the chlorinator it is necessary to press the button several times to make sure all Chlorine Production Indicators are OFF.

BUTTON 2 - Single press of the button increases chlorine production by approx. 5%. When all lights are ON the chlorine production is 100%.

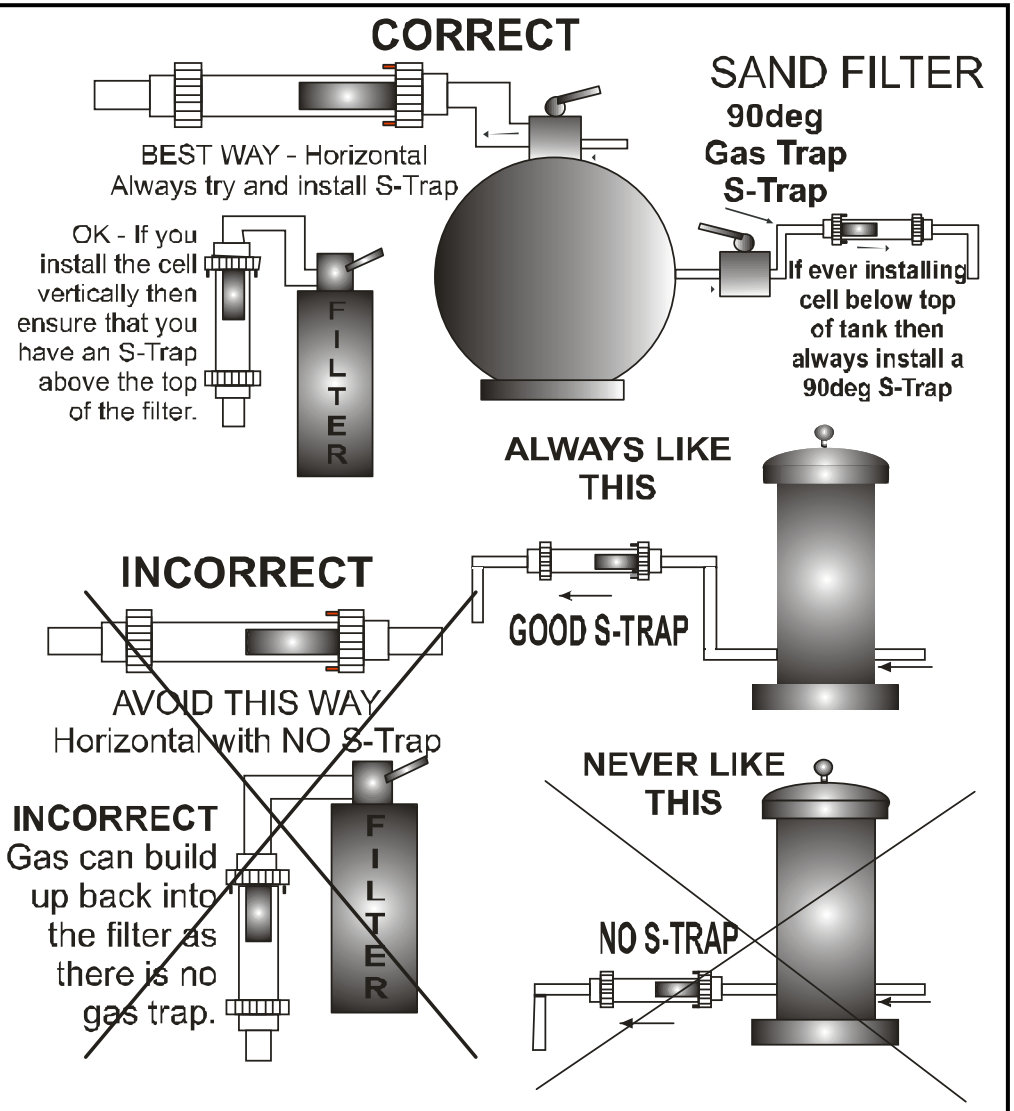
BUTTON 3 - Chlorine Production Indicators. There are 10 indicators. Each indicator corresponds to 10% of Chlorine production.

BUTTON 4 - If the water flow indicator is flashing or ON, the chlorinator is in the Stand By mode and there is no water flowing through the cell. Please ensure that the pump is running and there is water passing through the cell. Takes a few minutes to reset.

BUTTON 5 - When this LED is ON then the unit is running in the forward direction. This cleans calcium build up off the plates that had build up while in reverse.

BUTTON 6 - When this LED is ON then the unit is running in the reverse direction. This cleans calcium build up off the plates that had build up while in forward.

BUTTON 7 - When the Power Status light is ON the chlorinator output is above the LOW level and operating normally. When the LED is FLASHING then the production is low and must be turned up (or salt is low or cell is failing).



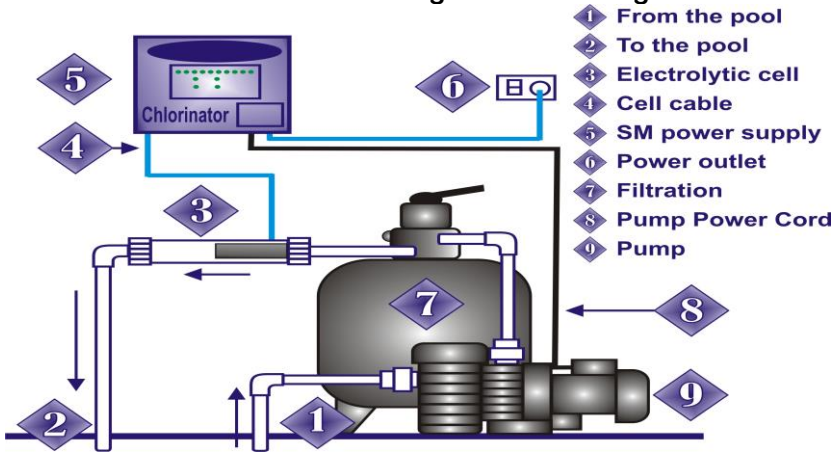
POWER SUPPLY INSTALLATION

The power supply is mounted above the cell assembly and flush to a wall with the fastener provided. It is preferable that the power supply, as all pool filtration equipment, is installed in a weatherproof location, but well ventilated.

The power supply must be mounted no further than 1.5 metres from the chlorinator cell, and positioned so as easy access is available to the controls/time clock.

CHLORINATOR INSTALLATION

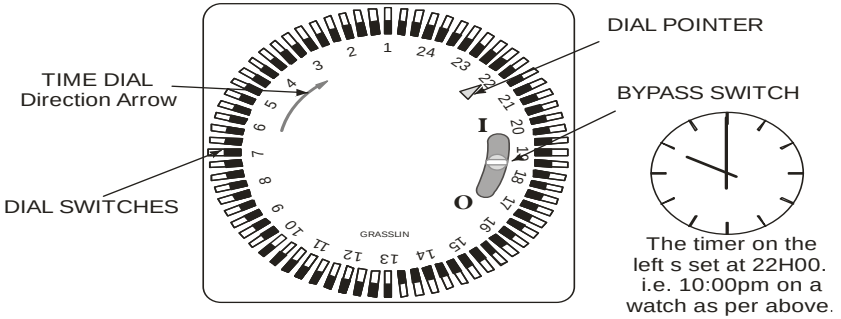
Chlorinator must be installed according to the following instructions



CELL HOUSING INSTALLATION

Caution: Cell must be installed correctly as per instructions:

8. MECHANICAL TIMER SETUP PROCEDURE



1.Clock setting Be sure to turn the "TIME DIAL" in the Direction of the arrow. Do not turn in the reverse direction!
Line up the correct time of Day on the DIAL with the POINTER .
Each HOUR is divided into 4 x 15 Minute divisions (4x1/4 Hour)
NOTE: The above time is set to 10:00pm (i.e. 22H00)

2.Timer setting. Set ON Times by moving DIAL SWITCHES to the outer edge. Each SWITCH represents 1/4 Hour(15min) running.
For one hour of running 4 switches will be set to the outer edge.
NOTE: The above example is set to run from 10AM to 1PM (3hours). All pins from 10 to 13 on the Dial will be extended out

(**OPTIONAL) BYPASS SWITCH.**
3. Center Position: This is the normal Timer Position(Automatic). In this position the tmer will operate as normal with automatic switching on during the time set by the DIAL SWITCHES
Upper Position (I): In this position the TIMER is always ON regardless of the SWITCH settings.
Lower Position (O): In this Position the TIMER is always OFF regardless of the SWITCH settings.