

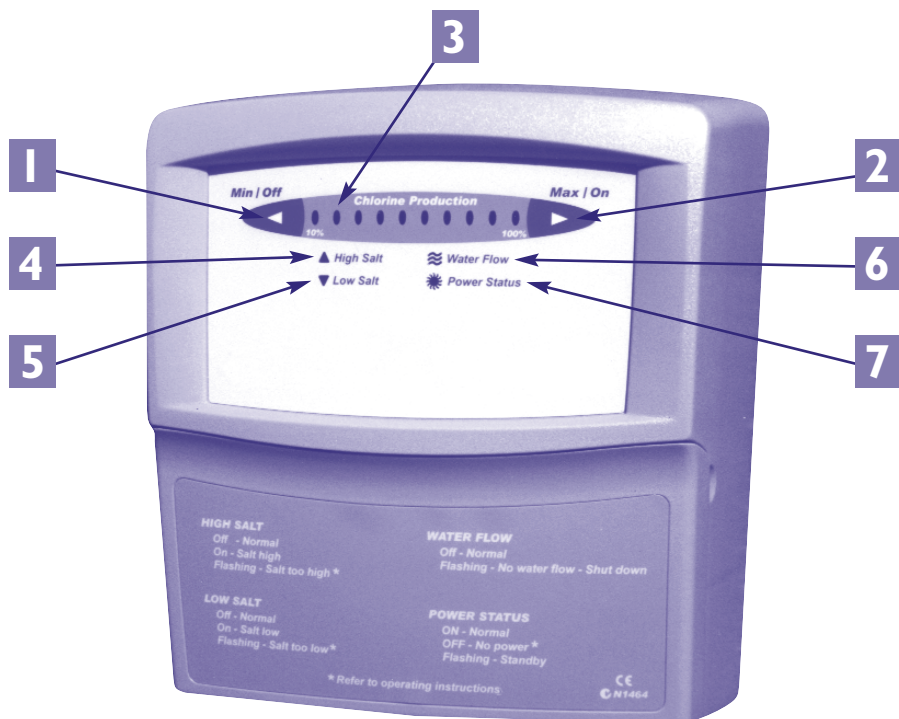
INSTRUCTION MANUAL

SALT WATER
CHLORINATION
SYSTEM

MODELS: SM30, SM20

AUTOMATIC CELL CLEANING

EXPLANATIONS OF FUNCTIONS OF POWER SUPPLY



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- 1 Single press of the button decreases Chlorine (Cl_2) production by 10%. 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.
- 2 Single press of the button increases Cl_2 production by 10%. When all lights are ON the Cl_2 production is 100%.
- 3 *Chlorine Production Indicators*. There are 10 indicators. Each indicator corresponds to 10% of Cl_2 production.
- 4 *High Salt (NaCl) Warning Indicator*. When salt is high this light will go on — add fresh water. If light is flashing the chlorinator will shortly turn off automatically as salt levels exceeded maximum. Salt concentration must be decreased to 4000-5000 ppm.
- 5 *Low Salt (NaCl) Warning Indicator*. Salt concentration should be increased to 4000-5000 ppm to satisfy chlorine production.
- 6 If the water flow indicator is flashing, the chlorinator is in the *Stand By* mode and there are no water flows through the cell. Please make sure the pump is running and there is water passing through the cell.
- 7 The chlorinator has power when *Power Status* light is on steady.
NB: If the chlorinator has shut down due to no water flow (*Water Flow* light flashing) or overload (*Power Status* light flashing) the unit MUST be turned off at the power source and then turned back on.

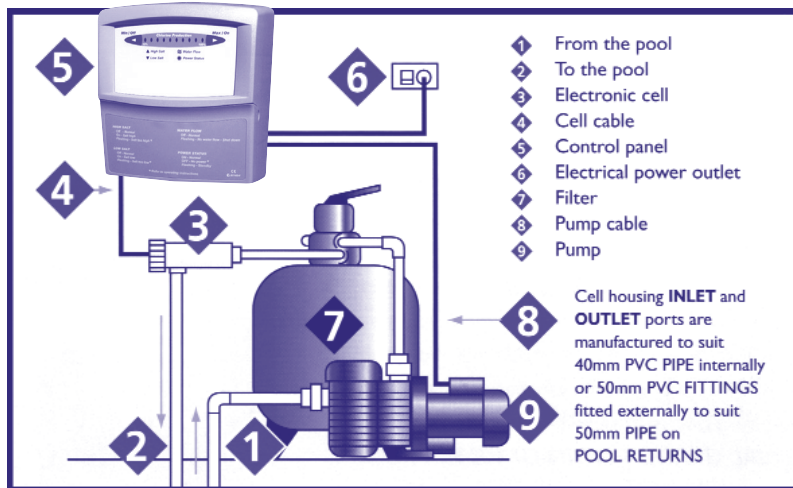
POWER SUPPLY INSTALLATION

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

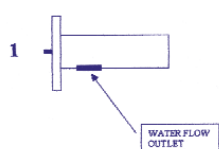
Chlorinator must be installed according to the following instructions:



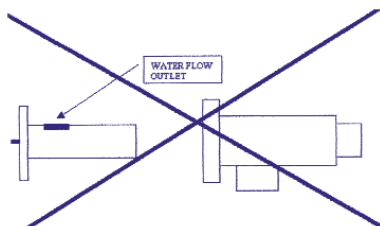
CELL HOUSING INSTALLATION

Caution: Cell must be installed correctly as per instructions:

O.K.

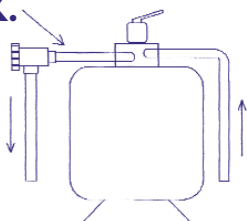


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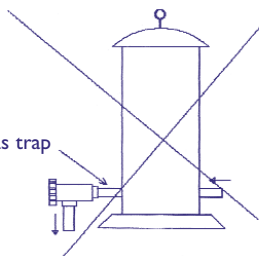


If installed incorrectly, cell housing could be damaged.

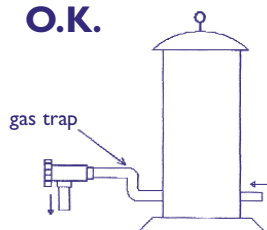
O.K.



no gas trap



O.K.



WATER BALANCE

Water balance requirements:

pH 7.2 – 7.4

Cyanuric Acid 40 ppm – 65 ppm

Salt 4000 ppm – 5000 ppm

Total Alkalinity 90 ppm – 150 ppm

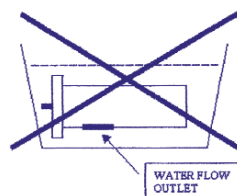
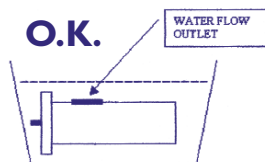
Chlorine 1.5 ppm – 2.0 ppm

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%).

O.K.



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 re-install the cell.

SPECIAL NOTE

The chlorine production is regulated with the output control and daily running time. Your chlorinator manufactures chlorine at a constant rate (ie. the SM30 produces 30 grams of Cl_2 per hour), and this is ideal for routine daily chlorination. If during peak use the pool water loses 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

WARRANTY

Chlorinators (models SM20, SM30) will have twenty four (24) months warranty.

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. Please note, unless specified, our warranty is strictly factory repair.

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

