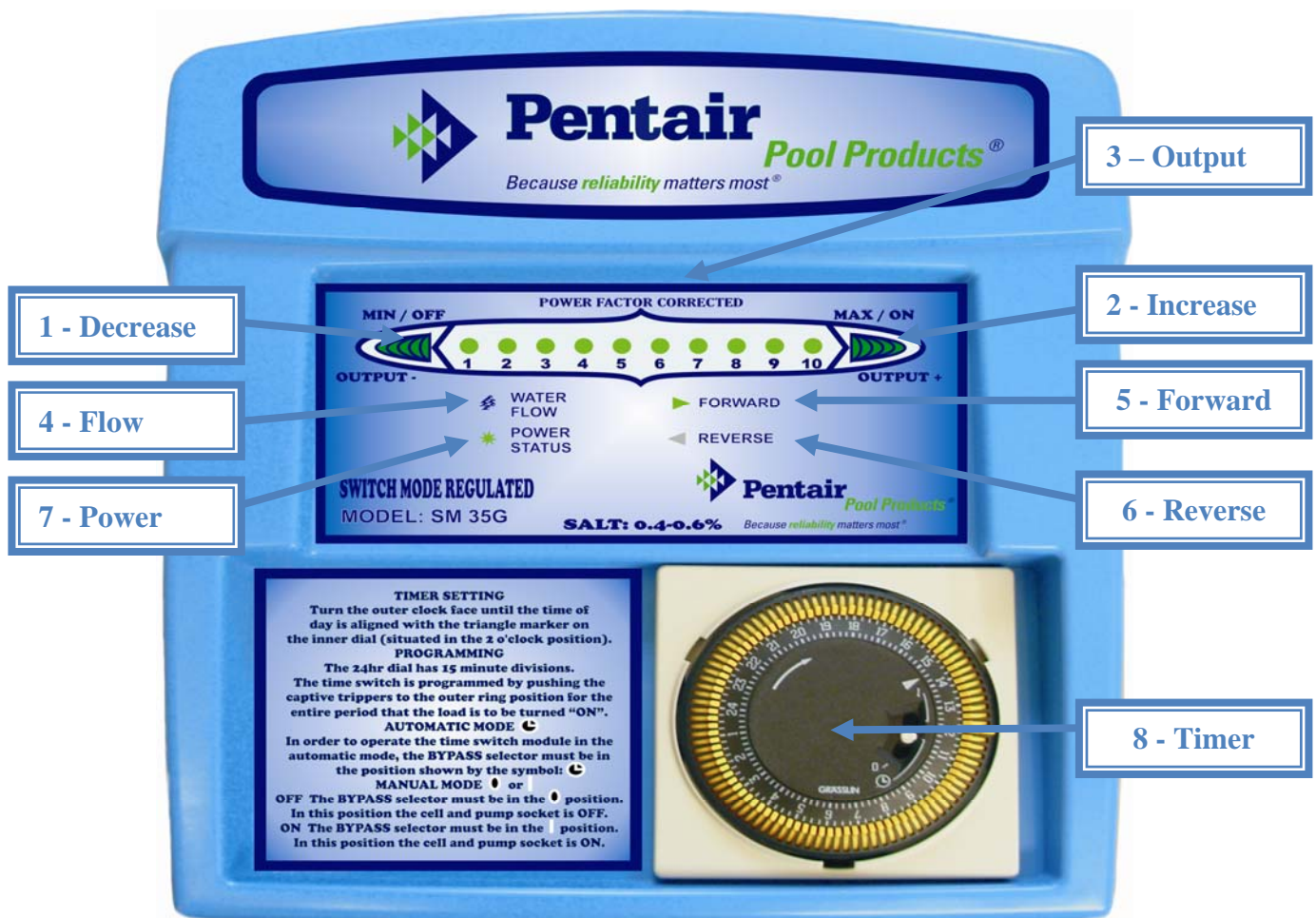


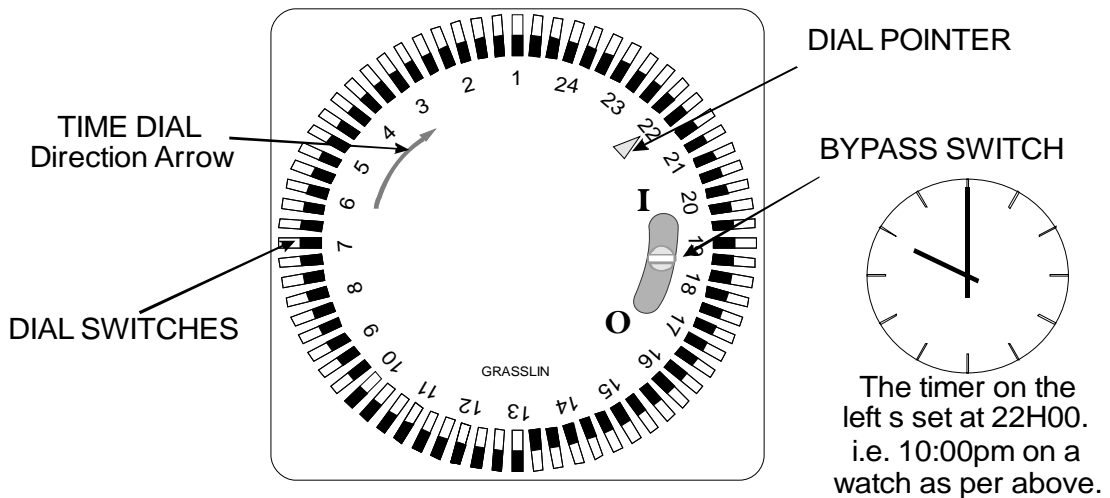
## EXPLANATIONS OF FUNCTIONS OF POWER SUPPLY – Release 1



### EXPLANATIONS OF FUNCTIONS OF POWER SUPPLY

1. Single press of the button decreases chlorine production by approximately 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.
2. Single press of the button increases chlorine production by approximately 5%.  
When all lights are ON the C12 production is 100%.
3. Chlorine Production Indicators. There are 10 indicators. Each indicator corresponds to 10% of C12 production.
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 make sure the pump is running and there is water passing through the cell.
5. When this LED is Flashing/On then the unit is running in the forward direction. This cleans calcium build up off the plates that had build up while running in reverse.
6. When this LED is Flashing/On then the unit is running in the reverse direction. This cleans calcium build up off the plates that had build up while running in forward.
7. When the Power Status light is ON the chlorinator output is above the OFF 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).

## 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 timer 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.

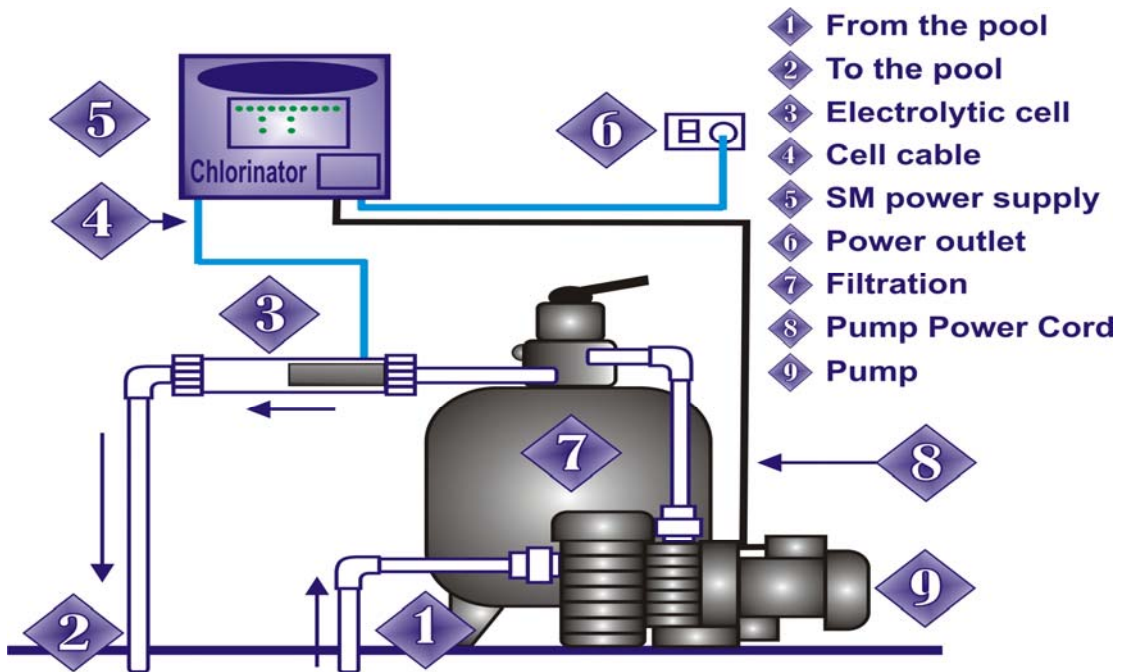
## POWER SUPPLY INSTALLATION

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

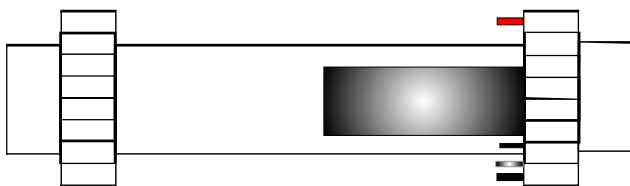
Chlorinator must be installed according to the following instructions:



## CELL HOUSING INSTALLATION

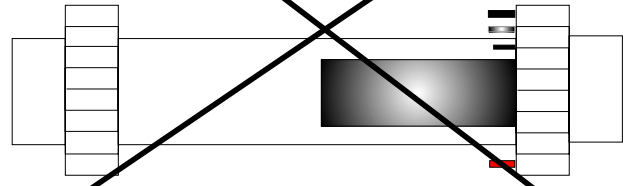
**Caution:** Cell must be installed correctly as per instructions:

# CORRECT



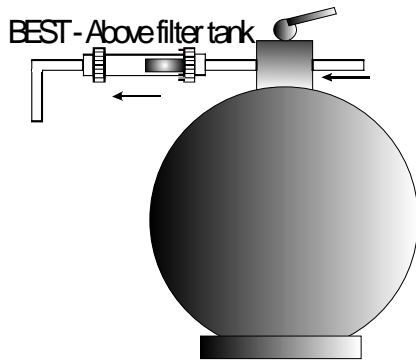
WATER SENSOR AT THE BOTTOM

# INCORRECT

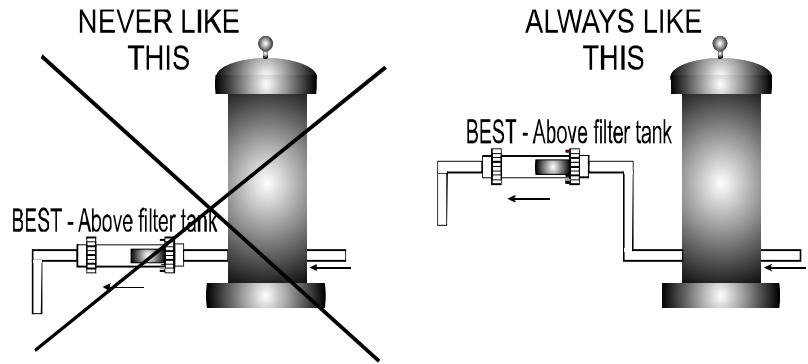


WATER SENSOR AT THE TOP

## SAND FILTER



## CARTRIDGE FILTER



## WATER BALANCE

### Water balance requirements:

Salt 4000ppm – 6000ppm

pH 7.2 – 7.4

Total Alkalinity 90 ppm – 150 ppm

Cyanuric Acid 40 ppm – 65 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%).

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 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 – both cell & power pack. 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 a SM Series salt water chlorinating system for your swimming pool.*