

# E Series Salt Chlorinator Models M20 CSD and M25 CSD

**ASTRALPOOL** 

## INSTALLATION AND OPERATING INSTRUCTIONS



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**Warning:** The appliance is not intended for use by young children or infirm persons without supervision. Please ensure that young children are supervised to ensure that they do not play with the appliance.

Controller must be installed according to AS 3000 wiring rules.

If the supply cord is damaged it must be replaced by Astral Pool or its service agent or a similar qualified person in order to avoid a hazard.

## 1.0 INTRODUCTION

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Congratulations on your purchase of the E Series M20 or M25 CSD salt Chlorinator. The CSD models incorporate a unique patent pending self cleaning process using Hydrochloric Acid which is automatically dosed into the electrolytic cell at the end of the filter cycle.

The self cleaning process occurs at the end of each filtration cycle and removes most debris and calcium from the electrodes that make up the cell.

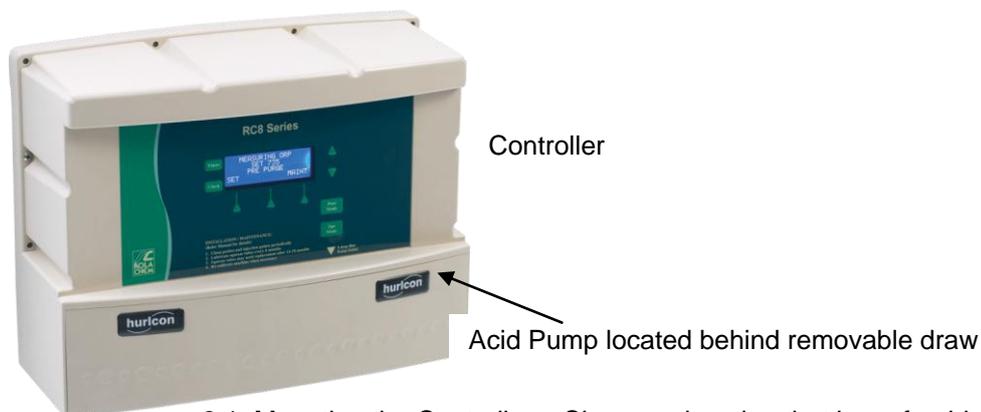
In addition, your CSD chlorinator has a pH sensor and will automatically maintain the pH of your pool water. The correct pH balance of your pool water significantly increases the effectiveness of the chlorine in the water and if not maintained at the correct level, can cause harm to the interior finish of your swimming pool or spa and reduce the disinfection time of the chlorine.

The purpose of the M20 CSD and M25 CSD Chlorinators is to significantly reduce the level of daily and weekly maintenance required to keep you pool and spa sparkling clean and healthy to swim in.

These installation and operating instructions will guide you through installation, operation and maintenance of your new chlorinator. Regular maintenance will ensure many years of trouble free operation.

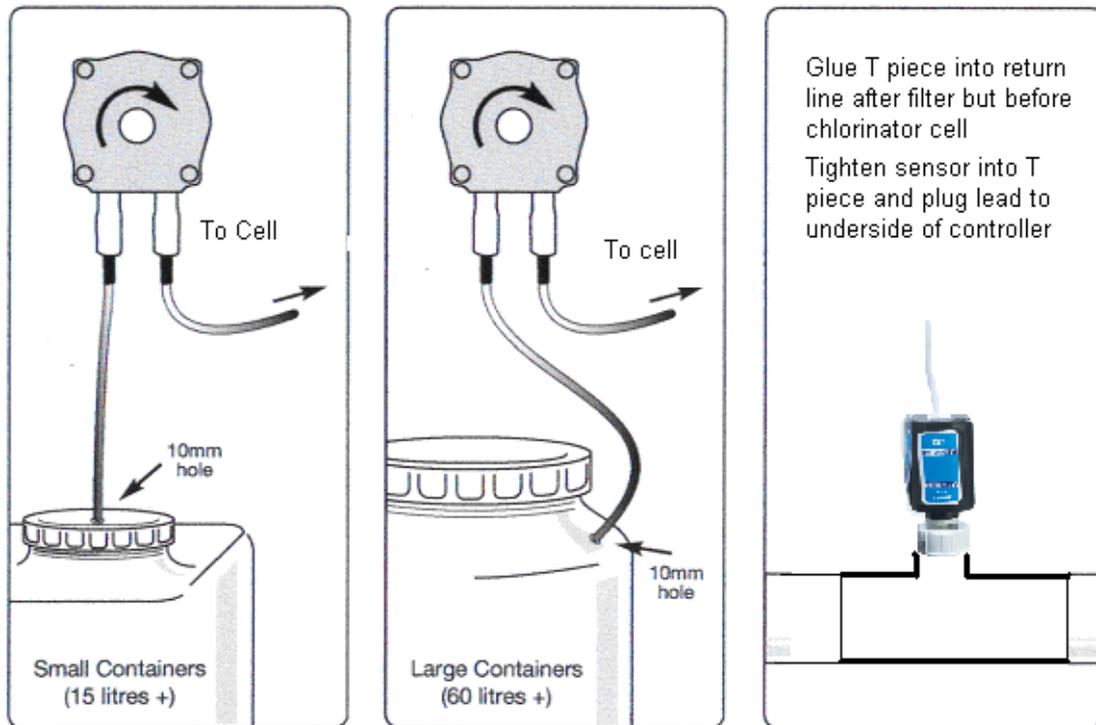
## 2.0 INSTALLATION

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**2.1 Mounting the Controller:** Choose a location that is preferably out of direct sunlight, near the filter system. The controller should be located 1 metre above ground level to prevent rain splash back or sprinkler system damage to the underside of the controller. The controller must be mounted on a vertical surface/wall. If mounted on a post, a flat sheet 20mm larger than the controller housing must be used.

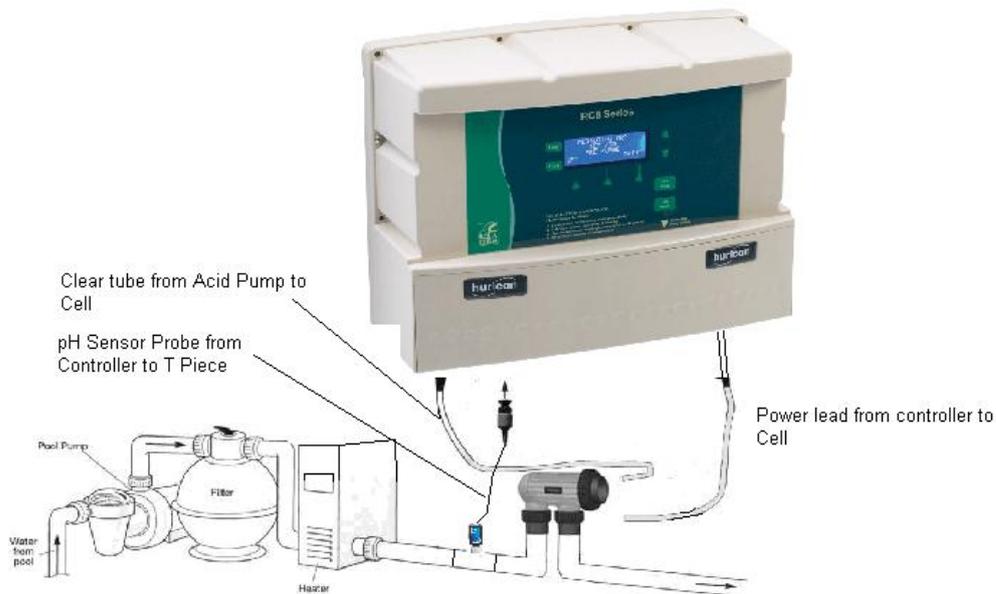
- a. Mount the wall bracket using the screws provided on a secure wall.
- b. Glue 50 mm Sensor T piece into plumbing line after filter and Heater (if installed).
- c. Glue Chlorinator cell into line as per drawing below after filter, heater, solar (if installed) and after sensor T piece.
- d. Remove draw on Controller for easy access to connection points and acid pump
- e. Plug the pH sensor into the underside of the controller in the location marked "pH"
- f. Plug filter pump 3 pin plug into underside of Controller



- g. Remove cap from pH sensor and screw firmly 50mm T installed in the plumbing. Do Not Overtighten.
- h. The water connections to the Cell are 50mm high pressure PVC pipe. Glue into Union tails using PVC glue as show above. Direction of flow through the cell is not critical. **WARNING:** Never install the cell before the pump or heater
- i. The cell **must** be installed with the barrel unions underneath and the cell should be horizontal. Both 40mm and 50mm fittings have been provided. Make sure that the o'rings are correctly fitted and the unions are done up tightly.
- j. Hang Controller on wall bracket and plug power supply lead into 3 pin 10 amp outlet.
- k. Ensure removable draw is replaced on controller to protect from water ingress.



- ACID SHOULD BE DILUTED MINIMUM 1:2
- ALWAYS ADD ACID TO WATER (NOT WATER TO ACID)
- NEVER MIX CHEMICALS
- CHEMICALS MUST BE STORED IN ACCORDANCE WITH RELEVANT STANDARDS AND DANGEROUS GOODS CODES. CONSULT YOUR AUTHORISED BUILDER OR POOL SHOP TECHNICIAN FOR ADVICE.
- WHEN HANDLING ACID, SAFETY GLOVES AND GOGGLES SHOULD ALWAYS BE USED



## 2.2 CONNECTING THE PVC ACID TUBE

Before installing the unit in position on the wall or post, the length of the PVC tubing provided should be measured and taken into consideration. Ensure the Controller and Cell are close enough for the power supply lead to reach the cell and sufficient PVC tube exists to connect Acid Container and Cell. To avoid loss of water from the system, close all stop valves before cutting any lines.

Thread the PVC tube through the hole in the cap or shoulder of the chemical container and fit the non-return or check valve and the weight. Ensure that the non-return valve is fitted correctly (arrow indicates the direction of flow) Drop the weight, with the non-return valve into the bottom of the container.

Connect the other end of the PVC tube to the inlet of the acid pump on the underside of the Controller.

Connect the remaining hose from the outlet of the acid pump on the underside of the controller. The remaining end of the PVC hose should be pushed through the cable gland in the end of the Cell Cap so that it protrude 5 mm on the inside.

**TIP:** Soaking the ends of the PVC tubing in hot water or gentle heating with a lighter makes it easier to push onto the barb. When installing acid container in a filter enclosure, which has no ventilation, it is recommended that the hole in the cap of the container is cut or drilled to fit tightly around the tubing, so that fumes from the acid will not corrode the equipment. It will be necessary to drill a second hole in the cap fitted tightly with a length of tubing which should then be vented outside the filter enclosure. This procedure is recommended only where the filter enclosure has no ventilation and is to protect the equipment.

## 3.0 STARTING YOUR CHLORINATOR

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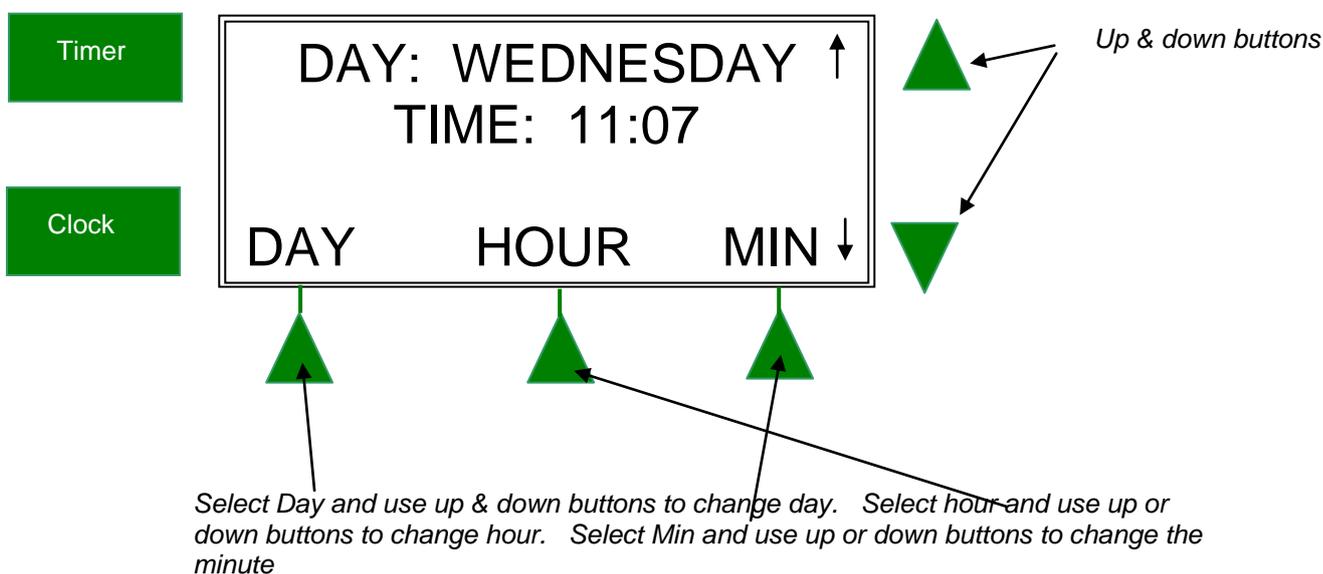
Your Chlorinator Controller operation can be divided into 4 areas;

- MAINTENANCE – selects specialised functions of your chlorinator and initial set up of Chlorinator to suit your pool and spa.
- SET – selects changes in Chlorine Product and pH of your pool and spa water
- CLOCK & TIMER buttons – sets current time and filtration, chlorine production and pH monitoring and adjustment times from Monday to Friday and Weekends
- Pool and Spa Mode – Allows selection of pool mode where controller will produce chlorine suitable for pool and Spa Mode, where chlorine production and acid dosing is reduced to suit a smaller volume of water in the Spa.

### 3.1 SET UP

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- Press “**Pool Mode**” button until **Manually Off** appears and then Press “**Clock**” Button
- Select “**Day**” and use buttons adjacent to LCD screen to set the current day, hour and minute. The clock is a 24 hour clock.



### 3.2 SETTING TIMERS

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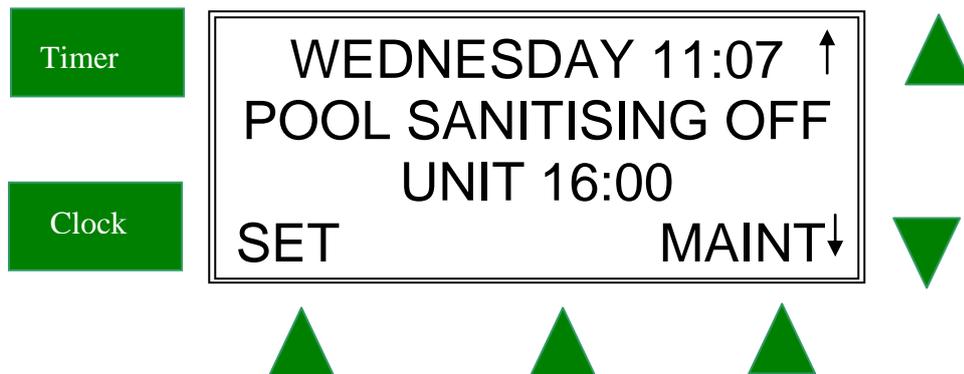
Your E Series CSD Chlorinator has 2 timers enabling you to set two different periods in which your filtration pump, acid and chlorine production will operate. Different periods can be set for the weekend compared to weekdays. Timers are set by entering a start time, and a **RUN** time for how long you want to operate (**i.e. Mon – Fri T1 Start 14:00 and Mon – Fri T1 Run 6:00 will run the chlorinator/pump during weekdays from 14:00 for 6.00 hours**). To set timers, do the following:

- Press the **TIMER** button.
- Press **HOUR** button to set the hour for the timer selected and use the Up/Down arrows to change the time.
- Press **MIN** button to select the minutes for the timer selected and use the Up/Down arrows to change the time. Press the **NEXT** button to select the **RUN** time or another time and set as required. Note: The RUN time represents the number of hours you want the unit to operate for.
- When finished, press the **NEXT** button a number of times to scroll through the other times until you return to normal display. This saves your new settings.
- Select **Auto Sanitising** by pressing the **POOL** mode button. The **POOL** mode button has three settings, manually **ON** which turns on system indefinitely, manually **OFF** which turns system off indefinitely, and **AUTO** model which sets the controller on timer clock mode. In **AUTO** mode the LCD screen will display the date and pool sanitiser message.

### 3.3 TIMER RECOMMENDATIONS:

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Hurlcon recommend that you use two timers, one for the morning and one for the evening and typically for periods of 2-5 hours for each. Your E Series CSD Chlorinator is most effective if running in the early morning or evening when it is cooler (strong sunlight consumes more chlorine). As a default, the control is set to come on at 08:00 hours and 16:00 hours both for periods of 4 hours.



### 4.0 OPERATING FUNCTIONS ACCESSED THROUGH MAINTENANCE PROGRAM

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To backwash your filter press **BWASH** and then the up or down arrows to select the backwash time. You can press **ABORT** at any time to finish the back wash. To rinse the filter, you can select **BWASH** again and then select the time. Using this feature will ensure your sand filter is backwashed for the correct time. Note: Ensure pump is off when changing the position of the backwash valve on your filter. As a guide, sand filters should be backwashed for 2 to 3 minutes, and then rinsed for 1 minute.

Press **MAINT**



Then press **NEXT** to display the following Screen. Selecting dose will allow you to override the time clock and allow the following:

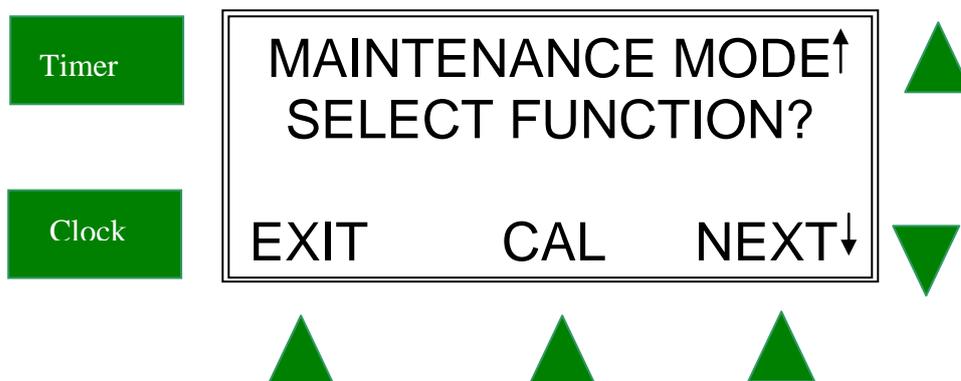
- i. Sanitise until the first timer tomorrow morning. This allows for additional circulation of the swimming pool water after treatment or cleaning
- ii. Manually prime Acid Pump. This allows for the clear PVC tube to be filled with Acid on initial start up or after changing or refilling the Acid Container. The priming period is for 300 seconds but can be stopped at any time. Should the tube not be completely filled with Acid after 300 seconds repeat the process.
- iii. Manually Dose Acid. Selecting this function allows you to manually dose acid for a predetermined time. Should your pool professional recommend the addition of Acid to your pool, select this function and press the up (or down) arrow to select the quantity of acid in litres you wish to dose. Press **ACCEPT**. The controller will then ask you what mode you wish the unit to revert to at the completion of Acid dosing, "AUTO", "ON" or "OFF". In normal circumstances you will select "AUTO" which puts the unit back into time clock operation.
- iv. **INSTALL** allows the unit to be set up for your pool or spa. This should only be selected in the initial start up of your Chlorinator. Select **INSTALL** and the following will occur:
  - a. **SET POOL WATER VOLUME**, select **YES** and then use up or down arrows to change the volume of your pool. Press **ACCEPT**

- b. **SET SPA WATER VOLUME**, select **YES** if your have a SPA attached to your pool and then set volume. Press **ACCEPT**
- c. **ENABLE ALARM?** Select **YES** and an alarm will sound if you run our of ACID or the ACID adjustment is not working.
- d. SELECT the **Maximum pH** value to trigger the alarm. It is recommended this is set at 8.0.
- e. SELECT the **Minimum pH** value to trigger the alarm. It is recommended this is set at 6.8.
- f. **DOSE CYCLE 240 Seconds**. In normal circumstances this will suffice for most pools – press **ACCEPT**.
- g. **ADJUST CELL CLEAN FREQUENCY** – Most pools require medium level of cell clean frequency, press **ACCEPT**.
- h. **ADJUST CELL CLEAN DURATION** – Most pools require a medium duration cell clean, press **ACCEPT**.
- i. **TIMER ENABLED** – this function will turn your timer on or off. If the chlorinator is not connected to an external timer clock or Genus Remote Control system Press **ACCEPT**. If an external timeclock is used to operate the chlorinator and filter pump then change to disabled.
- j. **FLUSH AFTER TIMER**. This function will turn the filtration pump on 15 minutes after the time period is finished to ensure the pH probe is not affected by ACID during the timer OFF period. Press **ACCEPT**
- k. **RESET SYSTEM?** If you are happy with your settings press **ACCEPT**.
- i. The unit will now reset itself with your individual settings to suit your pool.
- ii. Cycle through **POOL MODE** button to select **Auto**, **Manually ON** or **Manually OFF**.
- a. **AUTO** will allow the unit to operate your filter pump, chlorine production and pH adjustment on the timer periods you have selected. If you have not changed the timer periods, the default timer turns the filter pump and unit on at 08:00 hours for a period of 4 hours and then again at 16:00 hours for a further period of 4 hours. This is the default setting from the factory.

## 5.0 CALIBRATION OF PH SENSOR/PROBE:

From time to time, the pH sensor will require cleaning and calibration. Typically, calibration should take place one every 6 to 12 months.

To Calibrate, Press MAINT and next until CAL appears on the LCD. Select CAL to commence the process.



### CAL

The pH probes/sensor has been factory calibrated. However it is a good practice to check the adjustment for the probe periodically (say 6 months or earlier if required). The probe should be cleaned first (refer under Maintenance page 13 for cleaning) and allowed to settle down for about 4-5 minutes before adjusting/calibrating. Calibration solution is available via AstralPool as a spare part.

**pH** When the controller is in Manual Off mode, remove the pH probe from the pipe line (shut off the filter pump and close any isolation valves to avoid water spill), clean the probe (see under Maintenance) and place it in a 7.5 pH Easy cal Solution (available from AstralPool). Press **MAINT** and then next until **CAL** is displayed. The unit will ask **CHANGE PH CALIBRATION**, select **YES**. Select **NO** to Filter Pump on?

The display will indicate that the system is measuring pH. When the pH is displayed, press the **UP** or **DOWN** buttons to get the display to indicate the same value as the buffer (7.5) and then press **ACCEPT**

## 6.0 OPERATION

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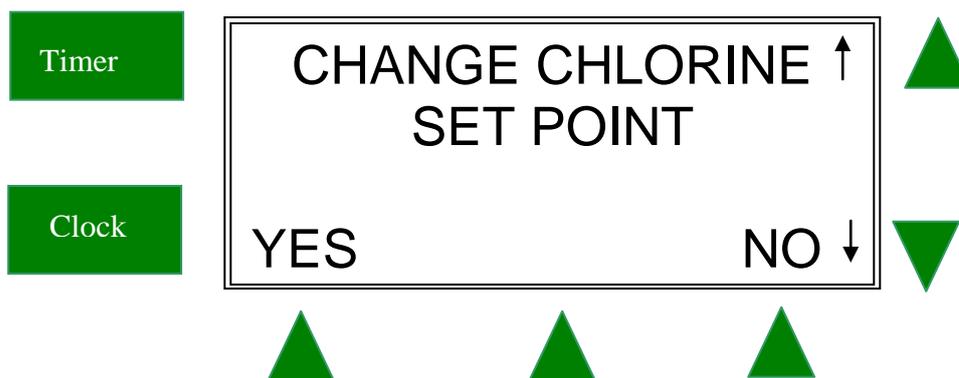
During operation, adjustments are made by the SET button.



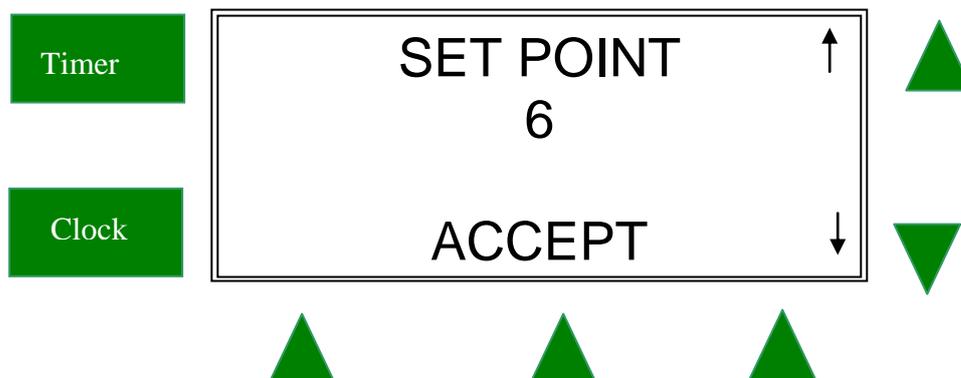
## 6.1 ADJUSTING CHLORINE OUTPUT

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Press the **SET** button to change the chlorine output and the pH of your Pool



Press YES to change the output



Use the up and down buttons to change the Set Point between 0 and 8. 0 chlorine output should only be used when there is no salt in the water. In summer, the chlorine should be set between 6 and 8 and you should regularly check your chlorine level in your swimming pool to determine if the output should be increased or decreased. Rely on your pool professional for advice on the recommended chlorine level in your pool.

As a guide the free chlorine level should be between 1.0 ppm and 3.0 ppm.

## 6.2 ADJUSTING PH SET POINT

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Continue through the **SET** menu to change the pH balance of your pool.

As a guide the pH in your pool should be set between 7.2 and 7.8. This will be determined by the type of pool you have, (Concrete, Fibreglass, Vinyl Liner) and you should rely on your pool builder or pool professional to recommend the correct pH Set Point. Use the up and down arrows to set your pH value.

Once the pH value is set your LCD screen will return to the operating information screen which will cycle through the current status of the chlorinator, the chlorine output setting (between 0 and 8) and the pH set point.

## 7.0 GENERAL OPERATION/POOL CHEMISTRY

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### 7.1 Setting the Right Chlorine Output and Filtration Time

Your E Series CSD Chlorinator must be run every day to ensure that your pool is correctly sanitised. As the sun dissipates chlorine, running times are higher in the summer compared to the winter. Astral Pool recommend that you initially run your chlorinator at maximum output on level 8.

#### Summer

You should set your Chlorinator to operate for 8 to 10 hours per day. Ideally, run it for 4-5 hours in the morning (say 8-12pm) and 4-5 hours in the evening (say 6.00-11pm).

In extremely hot weather it may be necessary to extend the running time if you find that the free chlorine level is too low.

#### Winter

You should set your Chlorinator to operate for 6 to 8 hours per day. Again, running it in the morning and evening is preferable. A lower chlorine output level may be selected.

#### 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.

### 7.2 Stabiliser

Sunlight rapidly dissipates the amount of free chlorine in your pool. Chlorine stabiliser greatly reduces this effect.

Without stabiliser, you may need to run your Chlorinator and filtration system up to 16 hours per day longer!!!

Keep the Stabiliser reading between 30 and 60ppm.

### 7.3 pH Level

You should keep your pH level between 7.0 and 7.4 for fibreglass pools and 7.2 to 7.8 for other pools.

### 7.4 Total Alkalinity

The ideal range is between 80 and 120 ppm.

## 7.5 Salt Level

Salt level should be maintained around 4,000ppm but should never be allowed to fall below 3,000ppm. Although salt is not consumed by the Chlorinator, salt is lost during backwashing, and when your pool overflows due to rain or splashing. The correct salt level is important to cell life and the effective operation of your chlorinator.

A typical pool of around 50,000 litres requires 200kg of salt to initially set-up the pool to 4,000ppm.

A low salt level warning is indicated on your E Series CSD Chlorinator if the salt level drops. If Low Salt is indicated, check again in 24 hours and then if it is still indicated, add two 25kg bags of salt to the shallow end of your pool. Run the filtration system for approx. 6 hours to help mix the salt in the pool. It can take up to a day for the salt to fully dissolve.

If the low salt light is still on, then you should get your pool water tested. If the Salinity is above 4000ppm then you may need to have your Chlorinator checked.

**Warning:** Some people recommend that you put salt directly in the skimmer box. This is a very bad practice as it allows very high concentrations of salt to be passed through your filtration and other pool equipment.

## 7.6 ACID Handling

Hydrochloric Acid should be handled with extreme care. Refer to Material Safety Data Sheets on Hydrochloric Acid. Do not inhale Acid fumes. Do not spill and handle with extreme care during transport. Use protective gloves and goggles.

In the case of spillage wash down with fresh water immediately. Keep out of reach of children.

## 7.7 Cell Cleaning

At the end of each filter on cycle, the chlorinator will automatically clean the electrodes in the Cell. This is a patent pending process and takes about 30 minutes. The cleaning phases consist of the following after the timer period is completed. This process will remove most calcium build up on the cell. Manual cleaning may be periodically required.

1. Check for water flow
2. Acid pumps doses acid into the cell
3. Pre clean time allows acid to mix with the pool water cleaning the cell electrodes
4. Cell energised to agitate water and acid.
5. Second clean phase starts to allow reaction between the low pH and debris on the cell.
6. Pool Pump is started for 2 minutes to flush cell.

This process will greatly reduce manual cleaning frequency of your cell. In pools with very high calcium levels, the cleaning duration and frequency may require adjustment.

It is usual to see a visible trace of Calcium on the electrodes in the cell after cleaning but the majority of Calcium and debris should be removed by this process. Should calcium and debris on the cell start to fill the gap between the electrodes, manually clean the cell in a mild acid solution or cell cleaning solution available from your pool professional

Ensure Acid is always available to clean the cell electrodes. Failure to ensure available acid will increase manual cleaning frequency and may void warranty.

## 7.8 Manual Cell Cleaning

Create a mild acid solution, of 1 part hydrochloric acid to 5 parts water in a bucket of water. Always add Acid to the water.

To clean cell – turn power to chlorinator off to prevent pump operating. Close isolation valves if chlorinator cell is installed below water level. Supply leads, sensor lead and PVC tube may require removal from the Cell. Unscrew the lock ring in an anti clockwise direction. Remove electrode from assembly from the cell housing.

Soak in Acid solution for 30 minutes and use a soft brush to remove calcium deposits and debris.

Reassemble Cell housing and reconnect power lead and PVC tube. Turn power onto chlorinator.

## 8.0 MAINTENANCE OF PH SENSING AND DOSING

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**8.1** Acid Pump squeeze tube must be lubricated every 6 months or more often in commercial applications. Use only the recommended lubricant RC Tube Lube available from AstralPool or any other compatible silicone lubricant, otherwise damage to the tube is possible.

Depending upon usage, the squeeze tube may need replacement after 12months on a domestic installation, and earlier on a commercial installation. Before replacing the tube make sure that any stop valves in the filter system are closed. Otherwise water loss may occur.

(To replace the tube, remove controller draw, remove retaining screws from the pump head and pull the tube free. Disconnect the squeeze tube from the barbs and reconnect the new squeeze tube after lubricating the same, making sure that the new tube is correctly connected to the PVC tubing as per instructions. Reposition the squeeze tube in the unit as before, replace the pump head and retaining screws.) **DO NOT OVERTIGHTEN THE RETAINING SCREWS.**

**8.2** The probes/sensors, which are sensitive instruments. To maintain their accuracy they should be cleaned periodically by household detergent abrasive like Jiff. Jiff is the preferred option. The ORP probe tip can be contaminated (generally observed by a copper or brownish coating – this should always look shiny silver) which will give a false reading to the Controller causing no dosing/over dosing of chemical. As the pH sensor tip is made of glass, please take care, for even a hair line crack can cause the sensor to read incorrectly causing malfunction. After cleaning the sensors/probes, wash with water, allow 5-10min. to settle and check calibration or re-calibrate if necessary.

## 8.3 Swimming Pool Applications and the use of Cyanuric Acid

**USE OF A SUN SCREEN CHEMICAL (CYANURIC ACID) FOR OUTDOOR POOLS IS RECOMMENDED. CHECK WITH YOUR LOCAL POOL SHOP AND USE THE CORRECT DOSAGE. ENSURE YOUR POOL WATER IS WELL BALANCED WITH THE CORRECT pH, TDS, TA AND STABILSER LEVELS AND FREE FROM PHOSPHATES.**

## 9.0 Fault Indication and trouble shooting

Fault Indication	Potential Cause	Remedy
No Flow	Pump turned off/disconnected or valves closed	Ensure valves/pump on
	Sense wire disconnected from cell	Connect sense wire to cell
Low salt	Salt level in pool has dropped too low	See section 7.5 above
	Pool water temperature is low	Increase salt level or raise water temperature
	Cell has calcified	See section 7.8
	Cell has failed	Call a technician
Display blank	No Power to Controller	Plug in controller and ensure mains power available
	Fuse blown	Replace fuse (3 amp slow blow)
Low/No chlorine production	Cables not connected to cell	Connect cables
	Timer period too short	Increase timer period
	Chlorine output level too low	Increase chlorine output
	Filter needs backwashing	Backwash filter
	Pool stabiliser too low	Get Stabiliser between 30 and 60 ppm
	Salt level too low	Increase salt to above 4000ppm
	Water Temperature below 15 deg	Increase water temperature or salt level
	Excessive Salt Level (Above 10,000 ppm)	Chlorinator cuts out on overload, reduce salt level to 4000 ppm
Clock loses time when mains power removed	Battery life expired	Call a technician
Cell does not clean	No Acid in Drum	Replenish or replace Acid Drum
Cell does not clean	PVC blocked or leaking	Clean or replace tube
pH too high	Probe/sensor malfunction	Clean and Calibrate probe/sensor
Cell does not clean	High calcium level in swimming pool	Call service technician to adjust cell cleaning duration and frequency
Cell does not clean and pH too high	The Acid Pump (Roller (H) Block) on the inside of the unit does not dispense chemicals	No chemicals in the tank. Injection point blocked. Air leak at the connection where the tube from the drum connects onto the pump tube. Chemical container airtight. Roller or H block broken. Pump head cracked. Squeeze tube needs replacement.

## 10.0 WARRANTY

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Your E Series CSD Chlorinator is covered by a limited 5 year warranty. The Electrolytic Cell is covered by a full 5 years warranty against defects in materials and assembly from the date of purchase plus 30 days to allow for installation. The Controller is covered by a 2 year warranty from the date of purchase plus 30 days to allow for installation. The pH sensor/probe and PVC Acid Tube are covered by a 12 month warranty against defects in materials and assembly from the date of purchase plus 30 days to allow for installation.

In field labour is limited to capital city metropolitan areas and within a 20 km radius of an authorised Astral Pool service agent. For installations outside of these areas, a small travelling charge may apply. Astral Pool reserves the right to replace or repair defective parts at its option.

Should a fault occur, call Astral Pool Australia or an Authorised Astral Pool Service Agent. There are no user serviceable parts. Always turn off and disconnect power supply when removing Chlorinator control or disconnecting the Cell. No representations may be made on AstralPool's behalf by any person unless permission, in writing is obtained from AstralPool.

### Limitations

All warranties only apply if the equipment is installed and operated in complete compliance with the installation and operating instructions.

Specific limitations and exclusions include but are not limited to, failure to keep Acid container full, failure to lubricate PVC Acid Tube with approved lubricate, Failure to maintain, clean and calibrate pH sensor/probe, water ingress into Chlorinator control. The squeeze tube in the Acid Pump Head is a consumable item and not covered under warranty.

AstralPool assumes no liability for consequential damages of any kind. In field labour warranty is applicable in capital city metropolitan areas and within a 20 km radius of Astral Pool Authorised Service Agents. Should you request a warranty service call and the problem is diagnosed as non-warrantable, you will be charged for a diagnostic service call plus any parts and labour required to repair the Chlorinator. No person is authorised to make any representations on behalf of Astral Pool.

### Commercial Installation

On Commercial Installations, such as health clubs, motels/hotels and hydrotherapy facilities, parts and in field labour warranty (in capital city metropolitan areas and within a 20 km radius of AstralPool Authorised Service Agents) is 12 months from the date of purchase plus 30 days to allow for installation. (Commercial Installations are defined as those pools or spas that charge a fee for entry and use of the facility).



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