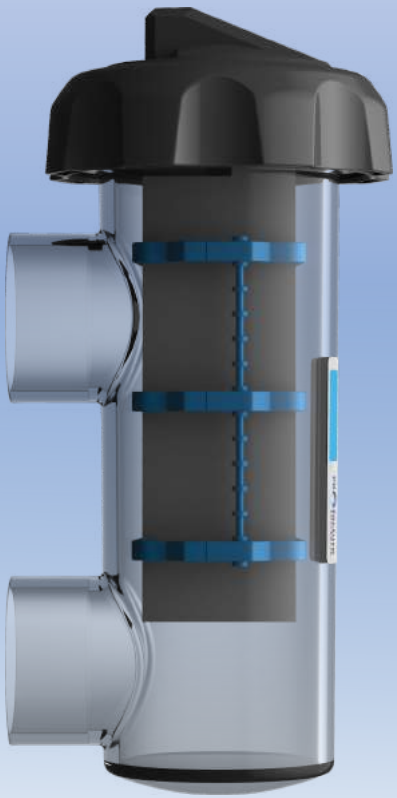
PROfacture AUSTRALIA

ChloroMate™



INSTALLATION & OPERATING INSTRUCTIONS

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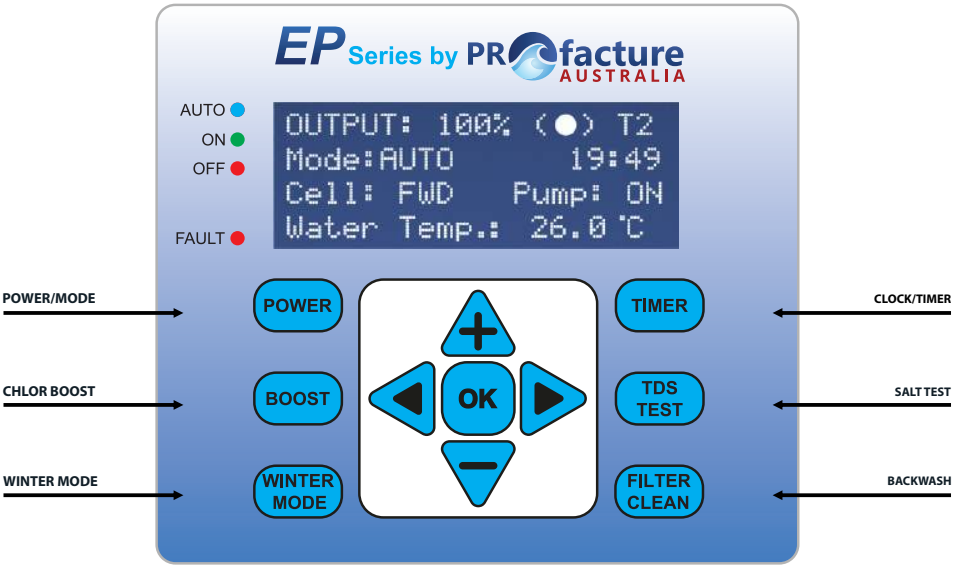

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1. IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

1.1 Important Warnings

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment. When installing and using this electrical equipment, basic safety precautions should always be followed. Failure to follow safety warnings and instructions in this manual can result in serious injury and/or damage to your equipment. Read and follow all warning notices and instructions which are included in this manual.

The Power Supply internally contains live components. There is a danger of electric shock if opened. If the power cord is damaged then it should be replaced by the manufacturer, their agent or similar qualified person, in order to avoid a hazard. The product shall be installed according to AS/NZS 3000 wiring rules. It shall be installed outside the pool zone. Please contact your local pool Professional for further assistance.

1.2 Important Safety Instructions

To reduce the risk of injury, do not permit young children to use this product unless they have been trained by the person responsible for their safety and they acknowledge their ability to use such equipment. To reduce the risk of accidents or incidents, service on the unit should only be performed by your local pool Professional.

1.3 General Warnings

When mixing acid with water, **ALWAYS ADD ACID TO WATER. NEVER ADD WATER TO ACID.**

DO NOT PLUG UNIT IN IF CARTON HAS BEEN WET.

GAS BUILDUP CAN OCCUR WITH IMPROPER WIRING: To reduce the risk of personal injury the Power Pack is designed so that the Electrolytic Cell will only receive power when the pool pump is on. Otherwise, dangerous chlorine gas build-up can occur. If the pump is not installed to the AC Socket (pump outlet) on the Power Pack then the installer must ensure that the Electrolytic Cell is never energised when the pool pump is OFF or water is not flowing through the unit.

Congratulations on your recent purchase of your ChloroMate™ EP-Series Salt Chlorinator. Please take a moment to read through the entire manual before installing your new unit. Your chlorinator must be installed and operated as specified.

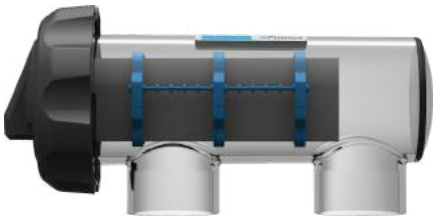
While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions. Profacture reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.

Please remember that your ChloroMate™ EP-Series Salt Chlorinator is not designed to chemically maintain your pool water and keep it balanced, but rather to produce chlorine from a mild salt solution within the water. We encourage regular water testing, balancing and correction if & when required to maintain the recommended balanced levels of your pool water. This is a vital part of a complete maintenance program and will ensure trouble free performance as well as a healthy and sparkling clean pool.

There is one design, comprising of 5 different size models in our range:

The models available (EP15, 25, 35, 45 and 55) are all reverse polarity units designed to automatically change direction every 4-16hrs (depending on your setting). **See 7.3 CELL CLEANING** to change the reversing times. This change of polarity causes the calcium to dislodge and keep the cell plates clean. Please note occasional cleaning of the electrode plates may still be necessary.

Thank you again for choosing a ChloroMate™ EP-Series Salt Chlorinator. We wish you many happy years of swimming in your crystal clear pool.

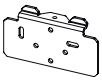


2. GENERAL OVERVIEW

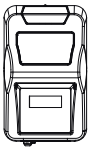
2.1 Recommendations and Helpful Hints

- Read and keep your manual in a safe place.
- Increase chlorine production when temperature goes up.
- Use Stabliser to Stabilise Chlorine in Pool.
- Maintain your salt levels between 3000-3500ppm for optimum performance.
- Decrease production when temperature goes down - **see 6.4 WINTER MODE.**
- Take pool water sample to your local pool Professional at least twice a month.

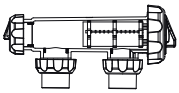
2.2 Contents



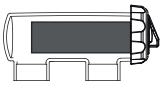
WALL MOUNTING BRACKET WITH LEVEL



POWER PACK



EP45 & EP55 CELL HOUSING with ELECTRODE POWER PACK and UNIONS



EP15, EP25, EP35 CELL HOUSING with ELECTRODE

2X50/40 Redusing Bushes

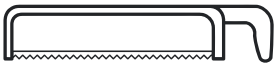
2X Green Wall Plugs with Screws

The Installation & Operating Manual

2.3 Tools Needed

DRILL WITH 6MM

BASIC PVC FITTINGS



HACKSAW

PVC PRIMER AND GLUE

NO.2 PHILIPS HEAD SCREWDRIVER

3. POOL PREPARATION

Before operating your ChloroMate EP-Series Salt Chlorinator please read the following:

Check your salt levels in your pool before starting your unit. **See 6.6 to perform a SALT TEST.**

Salt levels should ideally be 3000-3500ppm and no more than 5000ppm and mineral levels should be 20-30% higher. Contact your local pool Professional for further assistance.

Salt levels above 5000ppm may overload the unit and cause excessive heat and void your warranty.

For all new pool installations please seek advice from your pool builder or your local pool Professional before adding salt, as some new surfaces request no salt to be added when initially completed.

NEVER ADD SALT/MINERALS DIRECTLY TO THE SKIMMER BOX. This high concentration of either salt or minerals will pass through your filtration, pump and other pool equipment and may cause damage.

Handy Tips

The colder the water the lower your output but this does not mean you need more salt. There will always be less chlorine demand in colder water.

We recommend 3.5kg per 1000 litre of pool water and a 50,000lt new pool needs approximately 175kg of salt. For the FRESHWATER LOW SALT SYSTEM Model: EP25LS, we recommend 1.5kg per 1000 litre of pool water.

The unit can operate on mineral/magnesium chloride salts and you should allow an extra 20-30% on the ppm for these type of salts.

Salt should always be added to the shallow end of the pool and allowed to dissolve. Do not let the salt settle on the floor of the pool as this may cause damage to the surface. Use your pool brush to mix the salt into the water.

Running the pump will mix the water and help the salt to dissolve.

Only run the pump in the first 8-12 hours (ensure the cell is switched off) to allow the salt to dissolve.

By pressing [SALT TEST] a salt measurement is taken and a total TDS reading is displayed. The ideal TDS reading should be 3000-3500 and this will be displayed. If >4500 is displayed the salt level is too high and we suggest taking a sample to your local pool Professional for a more accurate result and further assistance. For the FRESHWATER LOW SALT SYSTEM Model: EP25LS, the ideal TDS reading is 1500-2000ppm.

4. POWER PACK AND CELL INSTALLATION

4.1 Power Pack Installation

The ChloroMate EP-Series Salt Chlorinator has a Ingress Protection Rating of IP23 enabling it to be installed outdoors. Regulations require that the Power Pack shall be installed outside the pool zone. The Power Pack shall be installed according to AS/NZS 3000 wiring rules.

The Power Pack should be installed in a well ventilated position ideally away from sunlight and rain to prolong life and at least 1m above ground to prevent run off water entry.

Ensure that the Power Pack is not stored near chemicals, fertilisers or in a closed unventilated shed with similar products as the fumes will cause excessive corrosion and damage to the internals of the Power Pack and may void warranty.

When mounting the Power Pack on a post it is recommended to install a flat panel at least the same size to act as a waterproof backing plate.

Mount the Power Pack with the Mounting Bracket, Green Plugs and Screws provided.

The Power Pack should be mounted no further than 1.5 metres from the Chlorinator Cell for ease of operation.

4.2 Cell Electrode Installation

Connect the Cell Housing horizontally in the return line to the pool (use reducing bushes supplied if 40mm PVC pipe) using high pressure PVC glue. The Cell Housing can be mounted vertically but provision must be made for a gas trap.

Direction of water flow through the Cell Housing is not critical although we do recommend entry from the closed end of the Cell Housing and exit from the end closest to the Cell Locking Ring. The reason is to cause less water hammer over time on the cell plates.

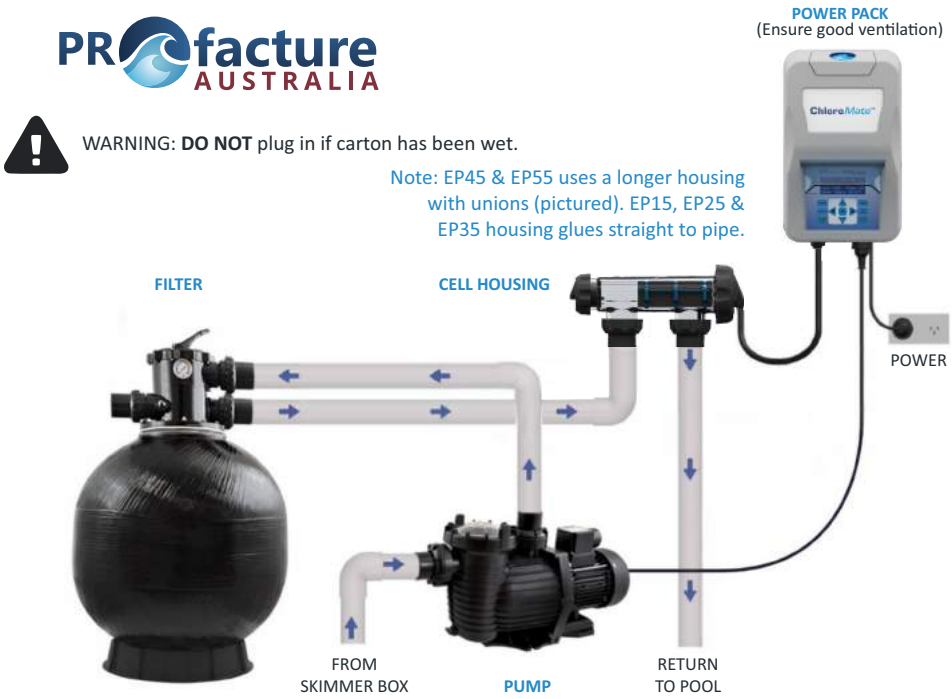
Check that the O-ring is clean, greased with silicone grease (**DO NOT** use petroleum based jelly) and securely located in the Cell Housing.

Ensure Cell Locking Ring is firmly tightened by hand (**DO NOT** use a tool to tighten).

Connect the lead from the Cell Electrode to the Cell Plug under the Power Pack ensuring a firm snap lock connection.

Plug the Power Pack 3 pin plug into a suitable weatherproof RCD protected 10amp outlet and then plug the pump into the 3 pin AC Socket located at the bottom of the Power Pack.

4.3 Installation Diagram



Important Notes:
The pump rating must not exceed 8amps.
Saltwater may damage electrical components in the Power Pack.

WARNING:
We **DO NOT** recommend the use of valves on the inlet or outlet of the cell housing. If you do use a valve then it is important to ensure that the valve cannot deadhead (lock closed) while the pump is running. It is the installers responsibility to ensure some form of flow control is installed in this instance and it disables the pump.

ALWAYS ensure that pipe work and equipment do not allow gases generated from the cell to collect and build up in any part of the installation.

It is **RECOMMENDED** that the Cell Housing be installed horizontally to create a natural gas trap that acts as a safety device. Installation in any other way may cause explosion, injury or death if the installer does not allow for gas removal. A venturi pipe is installed/moulded within the Cell Housing design to eliminate any possible gas build up, although it is always recommended to ensure proper installation to eliminate this from happening.

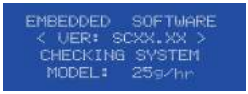
The Cell Housing must be installed in the **RETURN** pipework to the pool. It must always be installed after the filter, gas heater, solar heating or heat pump.

DO NOT apply priming fluid to the Cell Housing, it is not needed and may react with the plastic.

5. INITIAL START UP OF YOUR UNIT

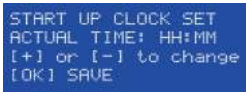
5.1 Initial Start Up

On initial start up of your ChloroMate EP-Series Salt Chlorinator the screen to the right will be displayed.

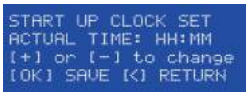


5.2 Start Up Clock Set

START UP CLOCK SET allows you to program the exact time of the day.
HH digits will flash and pressing [+] will increase the time and pressing [-] will decrease the time.
Pressing [OK] saves the selected hour HH and MM.
Pressing [<] skips this menu however you will need to set this later.

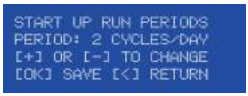


MM digits will flash and pressing [+] will increase the time and pressing [-] will decrease the time.
Pressing [OK] saves the selected hour HH and MM.
Pressing [<] returns you to the previous menu screen.



5.3 Start Up Run Period

START UP RUN PERIOD allows you to program your daily run times.
2 CYLCLES/DAY will flash and pressing [+] or [-] will change the selection.
PERIODS of running.
1: 2 CYCLES/DAY - unit runs from 6am-10am and 4pm-8pm
2: 1 CYCLE AM - unit runs from 8am - 4pm
3: 1 CYCLE PM - unit runs from 8pm-4am
Pressing [OK] saves the selected PERIOD
Pressing [<] returns you to the previous menu screen.



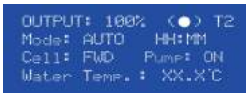
5.4 Start Up Information

START UP INFORMATION allows you to customise the unit to your pool size.
Pressing [+] or [-] will change it in 1,000lt increments.
Holding the [+] or [-] in will change it in 5,000lt increments.
A reading of 40,000Lt or similar flashes to show it can be changed.
Pressing [OK] confirms your selection. If you do not know your pool size you can press [OK] and set this later or contact your local pool Professional for further assistance.
Pressing [<] returns you to the previous menu screen.

5.5 Mineral or Salt Mix

MINERAL OR SALT MIX allows you to enter the type of mineral used in the pool.
Pressing [+] or [-] will change it from SALT to MINERAL MIX.
The reason for this is because a higher salt reading is required for MINERALS to be as conductive as SALT.
Pressing [OK] confirms your selection.
Pressing [<] returns you to the previous menu screen.

5.6 Default Display Screen



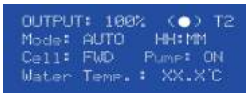
DEFAULT DISPLAY SCREEN (DDS) displays the screen to the right. This is the actual output % of the unit.
Pressing [+] or [-] will increase the Setting and the screen will change as seen on the right.
This should always remain at 100% unless SPA MODE has been selected.
The (●) symbol indicates normal opeartion.
T2 is the default timer displaying "Dual Timer Cycle" and T1 displays "Single Timer Cycle" when single timer is selected.
The Mode shows AUTO and this can be changed by pressing Power/Mode (either AUTO, ON or OFF).
The time shows with HH:MM in 24hr clock format.
The cell status shows as FWD when the cell is in the forward direction and REV when in the reverse direction.
The pump AC socket status is displayed, either ON or OFF.
The Water Temperature is diplayed.
Any power failures return you to the DDS screen and the last saved MODE is active.

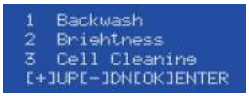
6.1 OK BUTTON

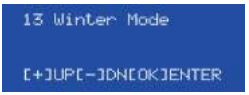
Menus are entered by either pressing the menus shortcut button on the control panel or by entering MAIN MENU, which is done by pressing the [OK] button.

Any inactivity in any display for longer than 60 seconds results in the display returning to the DDS screen.

MAIN MENU allows you to enter all MENU's including those available with shortcut buttons on the control panel.
Pressing [+] takes you to the last menu and using the [-] or [OK] enters the first 3 menus.
Pressing [<] returns you to the previous menu screen.
Pressing [+] or [-] scrolls up or down and [OK] enters the flashing menu.

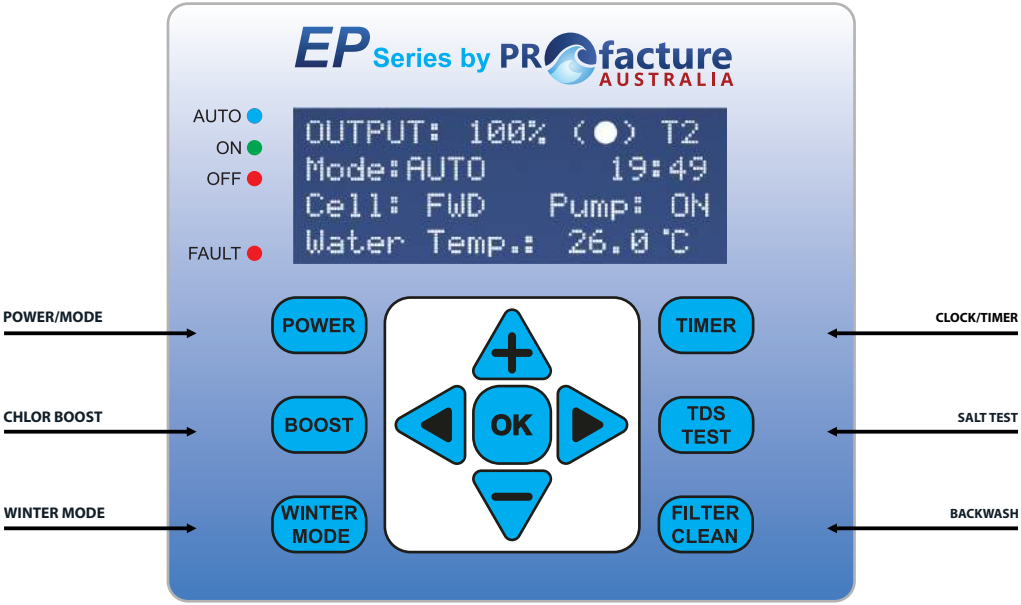






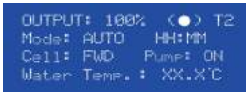
Below are the available menus in the ChloroMate EP-Series Salt Chlorinator.
See 7.0 for the workings of any menu's not explained here.

1 Backwash
2 Brightness
3 Cell Cleaning
4 Chlor Boost
5 Chlor Setting
6 Clock/Timer
7 Contrast
8 Power/Mode
9 Pump Setting
10 Salt Test
11 Service Menu
12 Spa Mode
13 Winter Mode

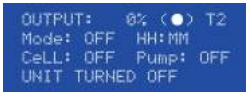


6.2 POWER/MODE

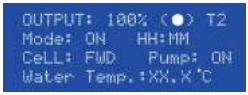
[POWER/MODE] button changes the operating modes of your ChloroMate EP-Series Salt Chlorinator.
When pressed the Mode will change AUTO to OFF then ON.
When the unit is first powered on the factory setting is in AUTO as shown to the right.



Pressing [POWER/MODE] to OFF will display the screen as seen to the right.

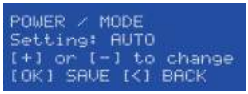


Pressing [POWER/MODE] to ON will display the screen as seen to the right.



Pressing [OK] from the DDS screen enters the MAIN MENU.
Pressing [+] takes you to the last menu and using the [-] or [OK] enters the first 3 menus.
Pressing [<] returns you to the DDS screen.

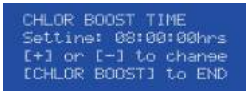
Pressing [+] takes you to last menus.
Pressing [+] 5 times above displays the display shown to the right.
Press [OK] to enter POWER/MODE.
Pressing [OK] enters the display shown to the right and pressing the [+] or [-] allows you to adjust the POWER/MODE setting from AUTO to OFF to ON.
Pressing [OK] saves the required mode and returns to the previous screen.
Pressing [<] returns you to the DDS screen.



6.3 CHLOR BOOST

BEFORE ENTERING CHLOR BOOST YOU MUST BE IN THE DDS SCREEN.

[CHLOR BOOST] button sets your ChloroMate EP-Series Salt Chlorinator and pump to operate for 8hrs and automatically sets the chlorine setting to 100%.
This allows for an injection of extra sanitising time, also know as Chlorine Boost or Super-Chlorinate. The bottom line will alternate between "[CHLOR BOOST] to END" and the fault message if there is any fault during CHLOR BOOST.



When in operation the LED will be on. After the set time it reverts back to last selected POWER/MODE unless ON then it reverts to AUTO.

The unit automatically defaults to 08:00 hours of ON time and the timer starts counting down immediately.
The first two digits **08** will flash while adjusting them as shown to the right.
Pressing [+] or [-] increases or decreases in increments of 01:00 hrs whilst running.

When completed the unit will return to the DDS screen in the last selected POWER/MODE state and the CHLOR BOOST LED goes OFF.

Pressing [CHLOR BOOST] again allows you to exit the CHLOR BOOST screen and return to the DDS screen.

CHLOR BOOST can also be entered by pressing the [OK] button in MAIN MENU and scrolling to CHLOR BOOST.

6.4 WINTER MODE

BEFORE ENTERING WINTER MODE YOU MUST BE IN THE DDS SCREEN.

[WINTER MODE] button automatically turns your ChloroMate EP-Series Salt Chlorinator set point (Chlor Setting) down by 50% when the unit is either in AUTO or ON mode. The unit defaults to a 50% set point and will stay on this until [WINTER MODE] is pressed again.

When in operation the LED will be on.

Pressing [+] or [-] increases or decreases this 50% set point by increments of 10% from 0% to 90%.

Once your desired set point is entered, pressing [OK] will return to the DDS screen and the output will display at the lowered set point (50% or different if you set it to that).

Pressing [WINTER MODE] whilst ON automatically turns this LED off and the unit returns to a set point of 100%.

Pressing [CLOCK/TIMER] will allow you to adjust operating times of the unit if necessary. **See 6.5 CLOCK/TIMER** for more detail or contact your local pool Professional for further assistance.

WINTER MODE can also be entered by pressing the [OK] button in MAIN MENU and scrolling to WINTER MODE.

6.5 CLOCK/TIMER

BEFORE ENTERING CLOCK/TIMER YOU MUST BE IN THE DDS SCREEN.

Your ChloroMate EP-Series unit comes with a built in digital timer.
CLOCK /TIMER displays are all shown in 24 hour format.

[CLOCK/TIMER] button allows you to set the CLOCK and run TIMER times of the chlorinator.

It is important to understand the difference between CLOCK and TIMER. CLOCK means the physical time of the day (e.g. 08:00) and TIMER means the settings programmed to turn the unit ON and OFF.

To run the chlorinator in MANUAL ON (i.e. always ON):
Mode set to: ON
T1 & T2 ON & OFF set to 00:00

CLOCK/TIMER can also be entered by pressing the [OK] button in MAIN MENU and scrolling to CLOCK/TIMER.

6.51 Clock Settings

CLOCK SETTING allows you to program the exact time of the day.
HH digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected hour HH.
Pressing [<] exits you to the DDS screen.

MM digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected minute MM.
Pressing [<] returns you to the previous display.

Obviously sunlight and higher bather loads in summer dissipate more chlorine than in winter. That is why you need to check your chlorine reading regularly and adjust your settings when required.

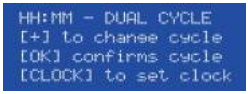
It is recommended to run the unit for 2 periods every day (early morning and evening) when the sun extracts the least amount of chlorine from the pool, giving it time to do its work.

Summer Settings
Ideally, run for 4 hours in the morning (6am-10am) and 4 hours in the evening (4pm-8pm). For a smaller pool you can run less hours. In extreme weather it may be necessary to run longer hours. Contact your local pool Professional for further assistance.

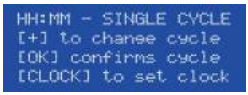
Winter Settings See 6.4 WINTER MODE for more detail

6.52 Timer Settings

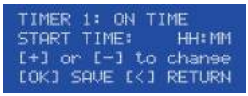
Pressing [CLOCK/TIMER] displays the screen to the right.
Pressing [+] then it changes to Single Timer Cycle (T1).
Pressing [OK] accepts the selected cycle and enters the Timer Program.
To program the actual time of the day press [CLOCK/TIMER] again.



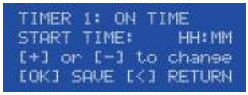
Pressing [+] changes back to Dual Timer Cycle (T2).
Pressing [OK] accepts the selected cycle and enters the Timer Program.
To program the actual time of the day press [CLOCK/TIMER] again.



TIMER 1: ON TIME (HH)
HH digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected hour HH.
Pressing [<] returns you to the previous display.

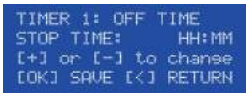


TIMER 1: ON TIME (MM)
MM digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected minute MM.
Pressing [<] returns you to the previous display.



TIMER 1: OFF TIME (HH)
HH digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected hour HH.
Pressing [<] returns you to the previous display.

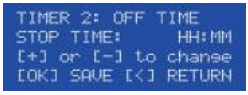
TIMER 1: OFF TIME (MM)
MM digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected minute MM.
Pressing [<] returns you to the previous display.



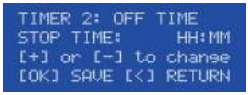
TIMER 2: ON TIME (HH)
HH digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected hour HH.
Pressing [<] returns you to the previous display.

TIMER 2: ON TIME (MM)
MM digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected minute MM.
Pressing [<] returns you to the previous display.

TIMER 2: OFF TIME (HH)
HH digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected hour HH.
Pressing [<] returns you to the previous display.



TIMER 2: OFF TIME (MM)
MM digits flash and pressing [+] increases the time and [-] decreases the time.
Pressing [OK] accepts the selected minute MM.
Pressing [<] returns you to the previous display.



6.6 SALT TEST

BEFORE ENTERING SALT TEST YOU MUST BE IN THE DDS SCREEN.

[SALT TEST] button measures the salt level in your swimming pool. A reading will appear on the screen, allow at least 30 seconds for an accurate reading.

BEFORE PERFORMING A SALT TEST, ENSURE THE CELL IS CLEAR OF ANY CALCIUM DEPOSITS, AS THIS WILL INSULATE THE ELECTRODES AND IMPACT YOUR READINGS. See 9.1 Inspecting and Cleaning the Cell Electrode if manual cleaning is required.

The Salt level is tested and displayed as shown to the right.

Pressing [SALT TEST] brings up the screen to the right for 6 seconds. This allows for the testing of the TDS range.

The screen automatically then brings up the FWD direction TDS range for you to record, as per the screen to the right for 5 seconds.

The screen automatically then brings up the CELL DISCHARGING which allows the cell to loose its charge in the FWD direction, as per the screen to the right.

The screen to the right displays allowing for the testing of the TDS range.

The screen automatically then brings up the REV direction TDS range for you to record, as per the screen to the right for 5 seconds.

The LCD display then automatically returns to the DDS.

Low salt levels (below 1000ppm) and high salt levels (above 8000ppm) are difficult to measure and results may become inaccurate. It may be that your cell needs replacing, contact your local pool Professional for a more accurate result and further assistance.

The SALT TEST measurement is meant to be a guide only as many factors can impact the result. We recommend you take your pool water sample to your local pool Professional before adding salt/minerals or replacing your Cell.

NEVER add more salt if not required. **NEVER** add salt directly in the skimmer box.

SALT TEST can also be entered by pressing the [OK] button in MAIN MENU and scrolling to SALT TEST.

6.7 BACKWASH

BEFORE ENTERING BACKWASH MODE YOU MUST BE IN THE DDS SCREEN.

[BACKWASH] button assists you in the operation of your pump and filter during the backwash process.

IMPORTANT INFORMATION BEFORE PERFORMING A BACKWASH.
NEVER OPERATE THE FILTER LEVER WHILE THE PUMP IS RUNNING YOU MAY DAMAGE THE SEAL AND LEAKS MAY OCCUR.
THE PUMP WILL START AND STOP AS YOU REQUIRE.
ENSURE ALL THE VALVES, VALVE HANDLE, LIDS, BASKETS, ETC. ARE IN THE CORRECT POSITIONS AS PER THE REQUIREMENTS OF THE MANUFACTURERS OF THAT EQUIPMENT.

[BACKWASH] can also be entered by pressing the [OK] button in the MAIN MENU and scrolling to BACKWASH MODE.

ALWAYS FOLLOW MANUFACTURERS INSTRUCTIONS.
IF UNSURE PERFORM MANUALLY BY PRESSING POWER/MODE ON&OFF TO DO THE FILTER CLEAN.

During BACKWASH the [POWER/MODE] button displays the ON LED when the pump is running and the OFF LED displays when the pump is stopped.

CARTRIDGE FILTER: If you have a cartridge style filter you can now perform all your required cleaning functions.
Press [<] or [BACKWASH] to exit.
SAND, GLASS or D.E. FILTER: If you have these filters, rotate the filter multi-port valve to the backwash position, ensure the handle locks are in place and once ready press [OK] to enter the [BACKWASH MODE] cycle.

Pressing [OK] starts the pump for 2 minutes and TIME LEFT will be displayed automatically counting down in 1 sec increments.
Once dirty water in the waste pipe or sight glass is clear press [OK] to finish.
RINSE MODE will then be displayed.

Pressing [OK] stops the pump and RINSE MODE is displayed.
Rotate the filter multi-port valve to the backwash position, ensure the handle locks in place and once ready press [OK] to enter the RINSE MODE cycle.
Pressing [<] or [BACKWASH] allows you to exit and this takes you to BACKWASH COMPLETE.

Pressing the [OK] button starts the pump for 2 minutes.
TIME LEFT automatically starts counting down in 1 sec increments.
Once dirty water in the waste pipe or sight glass is clear then press [OK] to finish RINSE MODE and enter BACKWASH COMPLETE MODE.

Pressing [OK] stops the pump and BACKWASH COMPLETED is displayed.
Rotate the filter multi-port valve to the filter position, ensure the handle locks in place and once ready press [OK] to enter the final BACKWASH COMPLETED cycle.
Pressing [<] or [BACKWASH] allows you to exit.

BACKWASH COMPLETED is displayed and the pump remains stopped.
This gives you time to ensure all lids are resealed and that all the required flow valves are returned to their correct positions. Do a final check that everything is in the correct positions and sealed.
Press [BACKWASH] to exit the BACKWASH COMPLETED mode and you will return to the DDS screen.

7.1 Backwash

See 6.7 BACKWASH (CONTROL PANEL OPERATION)

7.2 Brightness

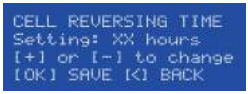
BRIGHTNESS is entered by pressing the [OK] button in the MAIN MENU and scrolling to BRIGHTNESS (Menu 2).

The factory setting is 60%.

Pressing [+] or [-] allows you to adjust the BRIGHTNESS. Pressing [OK] saves the required BRIGHTNESS and returns to the DDS screen.

Pressing [<] returns you to the previous screen.

7.3 Cell Cleaning



Smart self-cleaning technology allows the polarity of the OXI Cell plates to change direction every 4-16hrs (depending on your setting). The change of polarity causes the calcium to dislodge and keep the OXI plates clean. Please note occasional cleaning of the plates may be necessary.

The factory setting is every 10 hours and this can be adjusted from as low as 4 hours (for high calcium areas) and as high as 16 hours.

In areas where the calcium hardness of the water is low (less than 200ppm) cleaning of the cell may not be necessary. Where calcium levels exceed 200ppm, regular inspection of the cell is necessary. Cleaning in an acid solution may be necessary.

CELL CLEANING is entered by pressing the [OK] button in the MAIN MENU and scrolling to CELL CLEANING (Menu 3).

Pressing [+] or [-] allows you to adjust the CELL CLEANING time in one hour increments and is displayed as shown to the right.

Pressing [<] returns you to the previous screen.

7.4 Chlor Boost

See 6.3 CHLOR BOOST (CONTROL PANEL OPERATION)

7.5 Chlor Setting

CHLOR SETTING automatically controls the Chlorine output for your ChloroMate EP-Series Salt Chlorinator.

This feature is particularly handy when you want to run the pump for longer hours (i.e. maybe with a variable speed pump or you want additional filtration). If this is the case the levels would be decreased.

The factory setting is set to 100%.

Pressing [+] or [-] anytime whilst in the DDS screen increases or decreases in 1% increments.

CHLOR SETTING is entered by pressing the [OK] button in the MAIN MENU and scrolling to CHLOR SETTING (Menu 5).

7.6 Clock/Timer

See 6.5 CLOCK/TIMER (CONTROL PANEL OPERATION)

7.7 Contrast

CONTRAST is entered by pressing the [OK] button in the MAIN MENU and scrolling to CONTRAST (Menu 7).

The factory setting is 50%.

Pressing [+] or [-] allows you to adjust the CONTRAST adjustment and pressing [OK] saves the required CONTRAST and returns to the DDS screen.

Pressing [<] returns you to the previous screen.

7.8 Power/Mode

See 6.2 POWER/MODE (CONTROL PANEL OPERATION)

7.9 Pump Setting

PUMP SETTING is designed to protect your pump if there is no flow of water. This means the time the pump is allowed to run after the water sensor on the Cell detects there is no flow of water. The pump will be turned off from 3 to 10 minutes, after detecting no water flow.

PUMP SETTING is entered by pressing the [OK] button in the MAIN MENU and scrolling to PUMP SETTING (Menu 9).

The default setting is 3 minutes and pressing [+] or [-] allows you to adjust the time the pump is turned off for. Pressing [OK] saves the required protection time.

You can also select OFF and it will be disabled and will not stop the pump outlet.

Pressing [<] returns you to the previous screen.

For installations where a flow switch or external pump controls are used then this can be left in the OFF position. If unsure visit contact your local pool Professional for further information.

7.10 Salt Test

See 6.6 SALT TEST (CONTROL PANEL OPERATION)

7.11 Service Menu

Please contact your distributor or your local pool Professional for further information.

7.12 Spa Mode

SPA MODE allows your unit to be adjusted to suit your spa.

SPA MODE is entered by pressing the [OK] button in the MAIN MENU and scrolling to SPA MODE (Menu 12).

Pressing [+] or [-] allows you to adjust the SPA MODE settings from OFF to ON and ON to OFF.

Selecting OFF setting leaves the OUTPUT SETTING at 100% and ON changes the OUTPUT SETTING to 10%.

When SPA MODE is selected on the DDS screen will change as shown to the right.

Pressing [OK] saves the required settings and returns to the DDS screen.

7.13 Winter Mode

See 6.4 WINTER MODE (CONTROL PANEL OPERATION)

8. WATER CHEMISTRY

The ChloroMate EP-Series Salt Chlorinator unit is designed for use with swimming pool water balanced in accordance with the Langelier Saturation Index with a pH range of 6.8-7.8.

As previously advised, for best performance and operation of your ChloroMate EP-Series Salt Chlorinator unit, certain water balances must be maintained within your swimming pool. Have your water tested regularly. Transport the test water in an opaque container and have the test done as soon as possible for

8.1 Chlorine — Measurement Interval: Once a week

Ideal Chlorine (Free Chlorine) Levels: 2-3ppm (2-3mg/L) and no more than 4ppm (4mg/L).Adjust the chlorine output by pressing [+] in DDS to increase the required output set point in 1% increments up to 100%. Pressing [-] will decrease the output in 1% increments to 0%. Running the unit for longer or shorter hours can achieve the same result.

8.2 Salt — Measurement Interval: Every 4-6 weeks

Ideal Salt Levels: 3000-3500ppm and no more than 4000ppm. For the FRESHWATER LOW SALT SYSTEM Model: EP25LS, the ideal TDS reading is 1500-2000ppm.

Although salt is not consumed by the Chlorinator, salt is lost during backwashing, pool overflow, splashing and on bathers that use it. The correct salt level allows for the most efficient production levels and electricity consumption.

The salt level **SHOULD NOT** go below 3000ppm or 1500ppm for the EP25LS model. Operating the unit with too little salt in the pool will cause damage to your Cell.

Salt is the essential element by which your unit operates. Not enough salt means not enough chlorine - this simple rule governs the total operation of your ChloroMate EP-Series Salt Chlorinator unit, and insufficient salt will damage your Cell. Use Ultrafine Salt or Premium Salt to keep optimum salt levels.

The unit will operate with good stability on higher salt levels but it is still advisable to run at the correct level to prevent damage. Salt levels above 4000ppm or 2500ppm in the EP25LS model may overload the unit and cause excessive heat.

NEVER ADD SALT DIRECTLY TO THE SKIMMER BOX. This high concentration of salt will pass through your filtration, pump and other pool equipment.

HANDY TIP: The colder the water the lower your output but this does not mean you need more salt. There will always be less chlorine demand in colder water.

We recommend 3.5kg per 1000 litres of pool water and a 50,000lt new pool needs approximately 175kg of salt. For the FRESHWATER LOW SALT SYSTEM Model: EP25LS, we recommend 1.5kg per 1000 litre of pool water.

The unit can operate on mineral/magnesium chloride salts and you should allow an extra 20-30% on the ppm for these type of salts.

Salt should always be added to the shallow end of the pool and allowed to dissolve. Do not let the salt settle on the floor of the pool as this may cause damage to the surface. Use your pool brush to mix the salt into the water.

Running the pump will mix the water and help the salt to dissolve.

Low salt levels (<1000ppm) will destroy the coating on the Cell and void the warranty.

8.3 pH — Measurement Interval: Once a week

Ideal pH Levels: Concrete Pools: 7.4 - 7.6 Fibreglass/Vinyl Pools: 7.0 - 7.2

A pH of 8.0 makes oxidization only about 26% efficient which is why it is critical to keep your pH in range.

A correct pH level must be maintained to prevent problems such as black spot, staining, cloudy water, etc.
An incorrect pH level can damage the surface finish and walls of your pool.

When pH is high you can add Hydrochloric Acid to lower the pH.
When pH is low you can add pH Increaser - sodium bicarbonate (soda ash) to increase the pH.

8.4 Total Alkalinity — Measurement Interval: Every 4-6 weeks

Ideal Total Alkalinity Levels: Concrete Pools: 80 - 150ppm Fibreglass/Vinyl Pools: 80 - 120ppm

Total Alkalinity should not be confused with pH, although the two are closely related. Total Alkalinity determines the speed and ease of pH change, it is measured in ppm. You should use a test kit which includes a test for Total Alkalinity. Low Total Alkalinity can cause unstable pH levels. This causes an inability to keep the pH constant and may cause staining, etching and corrosion of metals. High Total Alkalinity will cause constantly high pH levels.

When Total Alkalinity is high you can add Hydrochloric (a little at a time) to lower the Total Alkalinity.
When Total Alkalinity is low you can add pH Buffer - sodium bicarbonate to raise the Total Alkalinity.

8.5 Calcium Hardness — Measurement Interval: Every 3 months

Ideal Calcium Hardness Levels: Concrete Pools: 250 - 300ppm
Fibreglass/Vinyl Pools: 150 - 190ppm

In addition to pH and Total Alkalinity, Calcium Hardness must be kept in balance so that your pool water does not become too corrosive or end up scaling the surface of your pool. These are symptoms of swimming pool water that is unbalanced.

8.6 Stabiliser — Measurement Interval: Every 4-6 weeks

Ideal Stabiliser Levels: 30 - 70ppm

The importance of pool Stabiliser cannot be over emphasised. It is essential in helping retain chlorine in your pool. Chlorine is rapidly dissipated by sunlight and the use of Stabiliser will reduce this dissipation dramatically. Without Stabiliser, it may be necessary to run the unit for longer hours.

THE MOST IMPORTANT NOTICE AND WARNING:

Only add chemical in the method and quantities as indicated on the packaging provided or advised by your local pool Professional. Also, if in doubt of any results you achieve then do not hesitate to consult with your local pool Professional.

9. CHLORINATOR MAINTENANCE

Maintenance of your ChloroMate EP-Series Salt Chlorinator is simple. Your unit has to be one of the most productive pieces of equipment on your swimming pool so it requires some basic maintenance.

While water chemistry will always be the most important form of maintenance there are also other hints and pointers to take note of.

DO NOT cover the Power Pack with towels or similar. There are vents that could be closed and these need air to keep the unit cool.

To extend the life of your unit we always recommend installation in an under cover area away from the elements.

Placing the unit in a closed shed or similar environment with chemicals, fertilisers and other corrosives will damage the unit and could void your warranty.

Keep the chlorinator off at all times during backwash cleaning of your filter. Please remember to turn it on once done and return the unit to AUTO mode. **See 6.7 BACKWASH** for further details.

Check that the plug connections on the Cell and the base of the unit are tight and are in sound condition at least once a year.

9.1 Inspecting and Cleaning the Cell Electrode

Reverse Polarity cells should not normally require cleaning, however, in areas with very hard water all calcium may not be removed. A calcium deposit might form on the lower areas of the cell, the sensor or the sides of the cell plates. This will NOT affect the operation of your chlorinator, however you can use Cell Cleaner to clean the Cell.

All salt chlorinator cells must be cleaned before scale/calcium builds up to the point where the electrode gaps in the Cell are bridged. If the Cell has excessive calcium deposit, this may damage the electrode coating, as the bridging causes rubbing on the plate coating and this will affect the operation.

Check the Cell to prevent the accumulation of pool debris that for any reason may have by-passed the pool filter, particularly after backwashing.

Check that the O-ring is clean, greased with silicone grease (**DO NOT** use petroleum based jelly) and securely located in the Cell Housing.

For cleaning, please follow these steps:

Press [POWER/MODE] to OFF as this ensures the pump and the unit will not turn on.

Unscrew the Cell Locking Ring and remove the electrode for inspection. If calcium build-up is present, immerse the electrode in Cell Cleaner.

A solution can be made by mixing 1 part hydrochloric acid to 10 parts of water. If excessive build up is present a stronger solution may be used to remove the calcium. Using 5 parts of water will make a more aggressive solution but will not damage the Cell. You can use Cell Cleaner and if you do then follow the instruction supplied.

Allow the cleaning solution to dissolve the calcium deposits for about 10 minutes. Dispose of the cleaning solution at an approved Council Depot and never into storm water or sewage drains.

HANDY TIP:
Returning this mix to your pool only returns the calcium you just removed, so you may be better off reusing the solution until exhausted then disposing of it. Always store this solution in a safe method as advised on the container.

Do not scratch or bend the electrode plates in the Cell Housing.

Ensure that the O-ring is clean, greased and properly seated.

Rinse the electrode in clean water and re-fit the electrode in the Cell Housing, ensuring that the Cell Locking Ring is hand tight and secure.

Turn on the wall outlet switch and the pump and the system will return to the mode it was in before.

When mixing acid with water, **ALWAYS ADD ACID TO WATER. NEVER ADD WATER TO ACID.**
Eye Protection, mask and gloves should be worn when cleaning the cell.

9.2 Inspecting the Power Pack

Little or no maintenance is normally required with the ChloroMate EP-Series Salt Chlorinator Power Pack.

Ensure the Power Pack 3 pin plug plugs into a suitable weatherproof RCD protected 10amp outlet. Ensure that the pump plugs into the 3 pin AC Socket located at the bottom of the Power Pack. Check all plugs and cords for damage. If damaged then it should be replaced by the manufacturer, their agent or similar qualified person, in order to avoid a hazard.

If the chlorinator is to be hard wired, then a qualified electrician must complete the installation.

The ChloroMate EP-Series Salt Chlorinator Power Pack has air vents to allow internal components to remain cool in hot weather. The ChloroMate EP-Series Salt Chlorinator has a special oil spray applied to the inside of the unit during production to stop the insects from entering the unit. To help assist in keeping the insects away, apply a surface spray periodically on the wall or post that the unit is mounted on. DO NOT spray directly into the Power Pack and make sure the power is off when you spray. Allow adequate time for the spray to dry before turning power on again.

10. SYSTEM TROUBLESHOOTING

If you suspect for any reason your ChloroMate EP-Series Salt Chlorinator is not performing or running as it should be, here are some handy troubleshooting tips that may assist you.

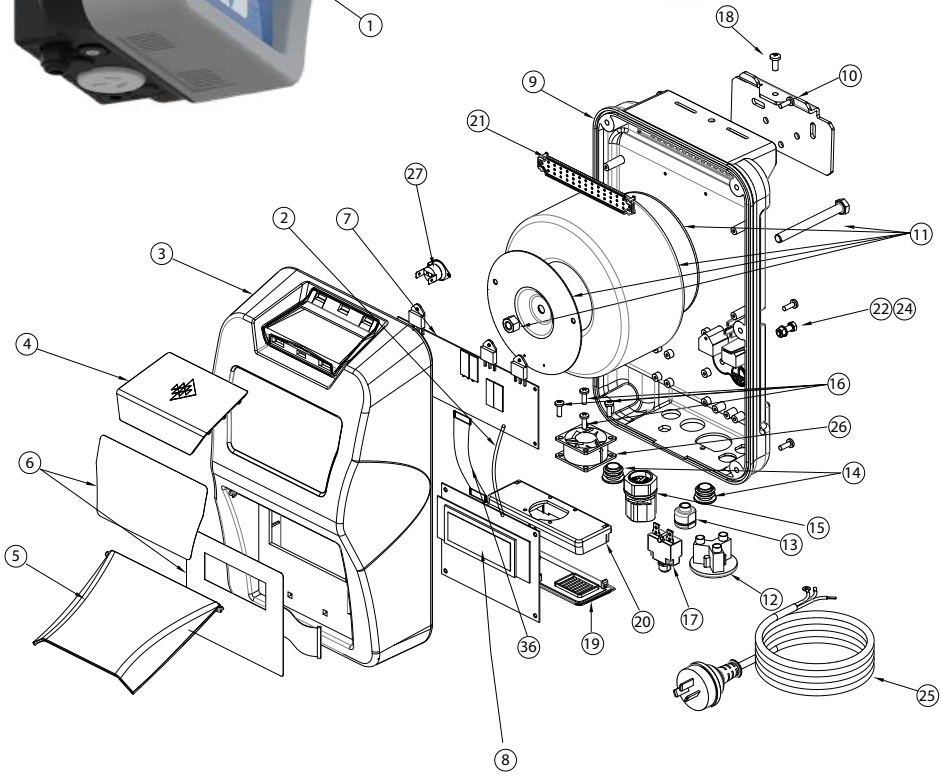
	Fault Indication	Potential Cause	Remedy
10.1	FAULT LED «ON»	Numerous causes	See the LCD DISPLAY for the reason then go to that section in this troubleshooting guide
10.2	HIGH SALT WARNING	Salt too high or short on cell plates	Check Salt guide (sec. 6.6/8.2) Check that cell is clear of any foreign materials (e.g. wire, metal, touching plates, etc)
10.3	INTERNAL TEMPERATURE HIGH	No air flow in the area around the POWER PACK or excessively high salt	Ensure POWER PACK is mounted in a well ventilated area free of chemicals and fertilisers Check Salt guide (sec. 6.6/8.2)
10.4	LOW SALT or CLEAN CELL or FAULTY CELL	Low salt level	Check salt level (sec. 6.6/8.2)
		Build up of calcium on the Cell plates	Calcium acts as an insulator and needs to be removed See Cleaning of Cell Electrode (sec. 9.1)
		Water temperature is low	Winter water temperature can be very low. For every 1°C below 28°C the output can drop 2-3%
		Insufficient water flow through the Cell	Check water flow and ensure a full chamber of water is passing over the Cell.You may need to backwash your filter (sec. 6.7)
		The Cell could be damaged or at the end of its life	Damaged coating will reduce cell life and reduce output If all conditions are correct then Cell could be at the end of its life
		Level low in one direction but OK in the other	Cell may need cleaning (sec. 9.1) or the Cell may have run its life in one direction
10.5	NO CURRENT FLOW - NO OUTPUT	Faulty CONTROL or MAIN PCB	Faulty PCB - contact for service
10.6	WATER FLOW FAULT	No water flow	Possible closed valve, pump fault, burst pipe
		Low water flow	Water does not cover the water sensor
		Low speed pump not supplying sufficient water to cell housing	Increase the speed of the pump until housing is filled
10.7	WATER TEMP HIGH	No water flow	Possible closed valve, pump fault, burst pipe
10.8	WATER TEMP LOW	Water temperature is below 10°C	The POWER PACK will lower output when water temperature goes below 10°C to protect the cell plates

	Fault Indication	Potential Cause	Remedy
10.9	WATER TEMP SUDDEN INCREASE	No water flow	Possible closed valve, pump fault, burst pipe
10.10	Not operating at all - no lights	Not plugged into power point or power point not turned on	Check that POWER PACK POWER CORD goes into wall outlet and outlet is turned on
		Plugged into power point and turned on but still no power	Test wall outlet with a working appliance
		Wall outlet working but still no power	Check CIRCUIT BREAKER at bottom of POWER PACK Press white button to reset if tripped
		Pressed and reset but still no power	If you have checked all of the above then there is an internal fault - contact for service
		CIRCUIT BREAKER stays out in a tripped state	Faulty CIRCUIT BREAKER - contact for service
10.11	Not operating at all - comes on but turns off	CIRCUIT BREAKER resets but trips again	1. Excessively high salt - check salt (sec. 6.6/8.2) and lower it if needed 2. Short across Cell plates - remove Cell and check the plates for any metal lying across plates 3. Faulty rectifiers, transformer or Cell cable - call for service
10.12	Everything displays OK but not turning ON	Incorrect TIMER settings	Press POWER/MODE button until in ON mode. Does it work now?
		Yes, it works now.	Check TIMER settings (sec. 6.52) in CLOCK/TIMER Mode
		No, it does not work.	If the FAULT LED is ON then refer to 9.1 above. If only LCD DISPLAY is ON but nothing works - call for service
10.13	Sign of melting or burning of the Cell Connector Plug	Possible moisture entry to the plug	If melted then it will need replacing otherwise clean with WD40 or similar. Return for service if melted
10.14	OUTPUT reading is less than 100%	Low salt level	Check salt level (sec. 6.6/8.2)
		Build up of calcium on the Cell plates	Calcium acts as an insulator and needs to be removed See Cleaning of Cell Electrode (sec. 9.1)
		Water temperature is low	Winter water temperature can be very low For every 1°C below 28°C the output can drop 2-3%
		Insufficient water flow through the Cell Housing	Check water flow and ensure a full chamber of water is passing over the Cell You may need to backwash your filter (sec. 6.7)

	Fault Indication	Potential Cause	Remedy
		The Cell could be damaged or at the end of its life	Damaged coating will reduce cell life and reduce output If all conditions are correct then Cell could be at the end of its life
		Level low in one direction but OK in the other	Cell may need cleaning (sec. 9.1) or the Cell may have run its life in one direction
		Continuous build up of calcium	See this troubleshooting sec 9.10
10.15	Power Pack only works in one direction No output in one direction	Faulty rectifiers, transformer or PCB	Return unit for service contact
10.16	Timer is not functioning properly in AUTO	Incorrect settings	Make sure POWER/MODE is set to AUTO. Refer to Timer Setting in this manual (sec. 6.52)
10.17	Pool pump outlet not functioning properly or pump always on	Pump not plugged into the base of chlorinator	Check that pump is plugged into the bottom of the POWER PACK and not directly in to the wall outlet Make sure you are set in AUTO mode and not MANUAL for normal running
10.18	Cell not cleaning, excessive calcium build up on Cell or Power Pack not changing direction	Excessively high calcium, change of direction time set too high or faulty PCB	1. See Calcium Hardness test (sec 8.5) and adjust water accordingly 2. Change the Cell Cleaning times (sec. 7.3) 3. Manually try changing direction by holding both [<] and [>] buttons in for 3 sec (you must be in the default display screen for this to work). Failure for this to work could indicate a faulty PCB - return for service
10.19	Low or No Chlorine Output	Unit not working correctly	Go through Troubleshooting from 9.1
		Stabiliser is too low	Check Stabiliser guide (sec 8.6)
		Unit not set correctly	Basic settings such as Output Control and Timer running hours need to be checked Go through all settings in sec. 5, 6 & 7 and balance water accordingly
		Salt level is to low	Check Salt guide (sec. 6.6/8.2)
		pH is too high	Check pH guide (sec. 8.3)
		Cell at the ends of its life	If full output is not reached then it could be a failing Cell
10.20	Timer loses time when mains power removed	Battery life expired	Replace Battery - return for service

PROfacture AUSTRALIA

CHLOROMATE EP-SERIES SALT CHLORINATOR



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CHLOROMATE EP-SERIES SALT CHLORINATOR
(PARTS LIST)

POWER PACK

	CODE	Profacture Description
1	EP15PP	Profacture Chloromate EP15 Power Pack
1	EP25_35_45PP	Profacture Chloromate EP25, EP25LS, EP35 & EP45 Power Pack
1	EP55PP	Profacture Chloromate EP55 Power Pack
2	N00895	Wire Loom SL-12 - Multi PCB TB-GND Pin 1 to LCD PCB RB-GND Pin 1 BLACK
3	N00364-1	Chloromate EP Front Cover COOL GREY
4	N01034	Chloromate EP Vent Profacture COOL GREY
5	N00367	Chloromate EP Front Flap BLUE
6	N01053	Chloromate EP Decal Sticker (set of 2)
7	N00693	Multi Triac Shunt PCB
8	N00496	Chloromate EP LCD Display PCB
9	N00356	Aluminium Die Casting with BLACK Outer Coating
10	N00453-2	Chloromate EP Mounting Bracket
11	N00024-1	Transformer 440VA for 55g/hr Model
11	N00023-1	Transformer 300VA for 25, 35 & 45g/hr Model
11	N00022	Transformer 220VA for 15g/hr Model
12	N00498	AC Socket Round - Pump Outlet Flush Mount BLACK (Side Wire Entry)
13	N00869	Grommet 6N-4 Cable Strain Relief Bush
14	N00501	Grommet Rubber AUX Hole up to 19mm
15	N00488	Chloromate EP Plug SL-10 Male End Complete with Power Supply Looms
16	N00054	Screw M3x12 Stainless Steel 304 (Fan)
17	N00018-2	Circuit Breaker 3amp (up to 45g/hr models) with 6.3mm push on
17	N00019-2	Circuit Breaker 5amp (for model 55g/hr and greater) with 6.3mm push on
18	N00053-1	Screw M4x10 Stainless Steel 304 (Slimline Front Case & Bracket)
19	N00368-1	Chloromate EP Bottom Vent Cover COOL GREY
20	N00369	Chloromate EP Fan Support Plate BLACK
21	N00370	Chloromate EP Snap Fit Gauze BLACK
22	N00478	Screw Pan Head M5x10 Stainless Steel 304
24	N00049	Internal Tooth Washer for Earth M5 S/S
25	N00011	Power Cord-Au
26	N00323	Cooling Fan 40x40x10mm (only EP55 model)
27	N00027-1	Thermostat 100degC

PARTS AND COMPONENTS (Not shown in schematic)

	CODE	Profacture Description
30	N00047	Washer 37x37x2.5 Zink Plated
31	N00207	Wire Loom SL-01 - Circuit Breaker LOAD to Transformer Active BROWN
32	N00223	Wire Loom SL-02 - AC Socket N to PCB N BLUE
33	N00224	Wire Loom SL-03 - AC Socket L to PCB PUMP-L BROWN
34	N00348	Wire Loom SL-04 - Circuit Breaker LINE to PCB A BROWN
35	N00484	Wire Loom SL-05 - Terminal Block 1 Pin 2 to Terminal Block 2 Pin 2 RED
36	N00485	Wire Loom SL-11 - Ribbon Cable with RED line and Header Sockets
37	N00008	Wire Loom CC-05 - Earth Wire
38	N00036	Cable Tie 3mm
39	N00560	Green Wall Plugs
40	N00217	Screw Self Tapping M5x25 Stainless (Wall)
41	N00053-1	Screw M4x10 Stainless Steel 304 (Slimline Front Case & Bracket)
42	N00052	Screw M3x6 Stainless Steel (Triac Connection and PCB)
43	N00067	Chloromate EP Power Supply Carton Box
44	N01055	Sleeve - Profacture Chloromate EP Chlorinator
45	N01054	Chloromate EP Operating Manual
46	N00079	Chloromate EP Chlorinator Outer Carton

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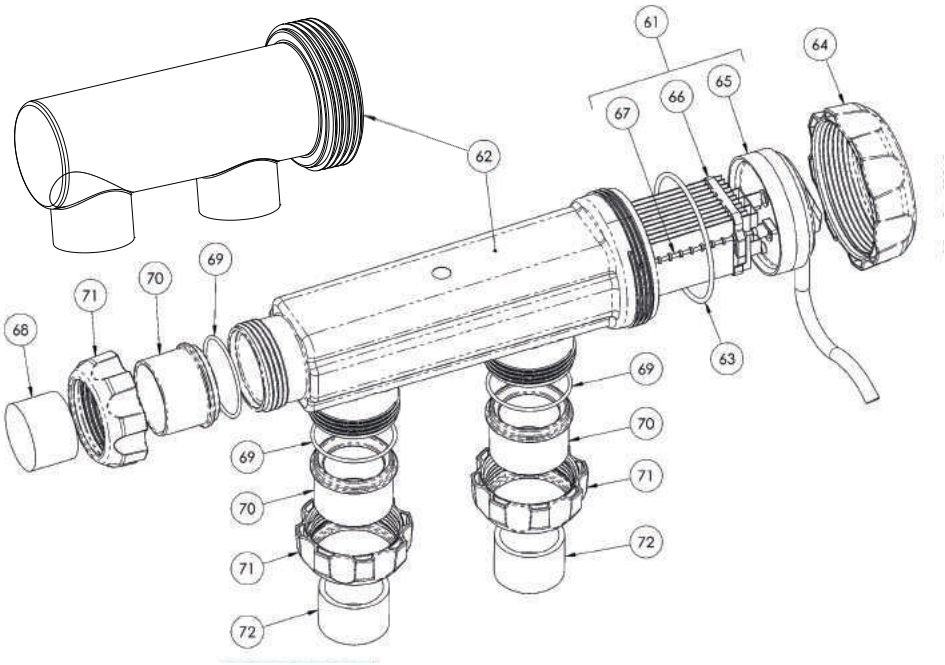
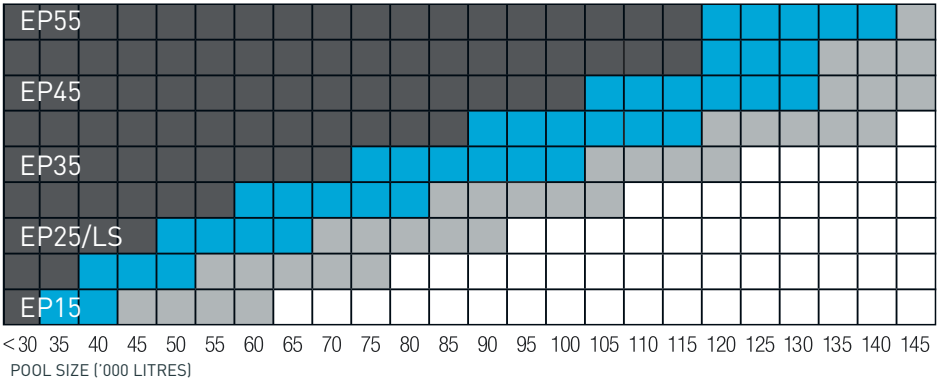
CHLOROMATE EP-SERIES SALT CHLORINATOR
(PARTS LIST)

ELECTRODE CELL PARTS

	CODE	Profacture Description
61	SL-CELL15RP	Chloromate EP 15g/hr Cell ONLY
61	SL-CELL25RP	Chloromate EP 25g/hr Cell ONLY
61	SL-CELL25RPLS	Chloromate EP 25g/hr LOW SALT Cell ONLY
61	SL-CELL35RPB	Chloromate EP 35g/hr Cell ONLY
61	SL-CELL45RPB	Chloromate EP 45g/hr Cell ONLY
61	SL-CELL55RPB-C	Chloromate EP 55g/hr Commercial Grade Cell ONLY
62	N00465	Cell Housing 2 Way EP15, 25 & 35 Models - Smokey
62	N00379	Cell Housing 3 Way EP45 & 55 Models - Smokey
63	N00460-1	O'Ring - Chloromate EP 2 Way Cell Housing EPDM rubber
63	N00460-1S	O'Ring - Chloromate EP 3 Way Cell Housing EPDM rubber
64	N00492	Chloromate EP 2 Way Cell Cap Locking Ring
64	N00380	Chloromate EP 3 Way Cell Cap Locking Ring
65	N/A	FOR ILLUSTRATION ONLY - Chloromate EP Cell Cap resin filled
66	N00322	Cell Clip 9 Plate BLUE
66	N00530	Cell Clip 11 Plate BLUE
67	N00322	Cell Clip Spacer Rod BLUE
68	N00691-1	PVC - Blanking Bush BLACK to suit 50mm outlet on 3 Way cell housing
69	N00461-1	O'Ring - Chloromate EP 3 Way Cell Housing Adaptor Tail EPDM BLACK
70	N00382	Chloromate EP 3 Way Cell Adaptor Tail BLACK
71	N00381	Chloromate EP 3 Way Cell Nut Small BLACK
72	N00670-1	PVC Reducing Bush 50x40mm



CHLORINATOR SIZING CHART



Tropical Climates

Warmer Climates

Cooler Climates

Sizing Chart provided as a guide only. Consult your Local Chloromate dealer for the correct system, size and specification to suit your needs.

CHLORINE PRODUCTION

MODEL	Per Hour			Over 8 Hours		
	Chlorine Output	Cal.hypo. Equivalent (65%)	Sod.hypo. Equivalent (12.5%)	Chlorine Output	Cal.hypo. Equivalent (65%)	Sod.hypo. Equivalent (12.5%)
EP15	15g	23g	120ml	120g	184g	0.96Lt
EP25/LS	25g	38g	200ml	200g	304g	1.60Lt
EP35	35g	54g	280ml	280g	432g	2.24Lt
EP45	45g	69g	360ml	360g	552g	2.88Lt
EP55	55g	85g	440ml	440g	680g	3.52Lt

13. WARRANTY

THIS EQUIPMENT HAS BEEN MANUFACTURED AND TESTED TO THE HIGHEST STANDARD AND ACCORDINGLY CARRIES THE FOLLOWING WARRANTY.

13.1 The ChloroMate EP-Series Salt Chlorinator Power Pack & Electrolytic Cell will be repaired at no charge, for a period of 3 years or 10 000 hours, which ever occurs first, from the date of purchase should it be found, after examination, that the failure has been caused by faulty workmanship or materials. This is a back to base warranty.

13.2 Adverse operating conditions beyond the control of the manufacturer such as improper voltage or water pressure, excessive ambient temperature or any condition that adversely affects the performance of the equipment will render this warranty null and void.

13.3 Defective equipment must be returned to the manufacturer or dealer as soon as the purchaser becomes aware of the defect and all transport must be prepaid. Neither the manufacturer nor the dealer shall be responsible for any goods damaged in transit.

13.4 If after examination the equipment is found to be defective it will be repaired or replaced free of charge (other than transport costs which will be borne by the purchaser). However, if upon inspection of the equipment it is found that the terms of this warranty are not satisfied, then the usual charges of the manufacturer for repair or replacement will be made.

13.5 Any liability of the manufacturer pursuant to the Trade Practices Act 1974, as amended for a breach of a condition or warranty shall be limited to replacing or acquiring the equipment (or part thereof) where the same has been supplied.

13.6 The maximum liability incurred by the manufacturer shall not in any case exceed the contract price for the equipment or the product parts or components thereof claimed to be defective. Further, the manufacturer shall not be liable for any loss, damage or delay directly or indirectly caused by any malfunction of or defect of or failure of the equipment other than as expressly provided in this warranty.

13.7 Products sold by the manufacturer are designed for use with swimming pool water balanced in accordance with the Langelier Saturation Index with a pH range of 6.8-7.8. Chlorine level should not exceed 4ppm and the salt level should not exceed 4000ppm.

13.8 The manufacturer will not be held liable for damage caused by, but not limited to, corrosion, scaling or stress.

The Warranty is void under the following circumstances:

- Installation is carried out incorrectly by any person other than a person authorised by us to do so.
- The Power Pack or Cell is serviced by any person other than a person authorised by us to do so.
- Correct salt levels are not maintained at all times.
- The Power Pack is not protected from the elements.
- The Power Pack is not operated in a position/area with good ventilation.
- Water has been allowed to enter the Power Pack.
- Insect infestation or penetration by dust, sand or other foreign particles inside the Power Pack.
- Damage beyond our control.
- Equipment that has been misused, neglected, damaged, repaired without authorisation or altered in any way.
- This warranty is applicable to workmanship and materials only.
- This warranty is not transferable under any circumstance.
- Keep your original purchase invoice and serial number in a safe place.

Claiming Warranty on your ChloroMate EP-Series Salt Chlorinator

When making a warranty claim, please note the following information MUST be provided or claim may not be approved.

- Model Number
- Power Pack Serial Number
- Cell Serial Number
- Proof of Purchase showing the Purchase Date and Purchased From
- Installation Date
- Installer
- Your Full Name
- Your Phone number
- Your address Details
- The run hours displayed in the LCD screen and the alpha/numeric code after it.
- Details of the Issue

We keep extensive production and sales records so this information will expedite the processing of your claim.

Profacture reserves the right to modify any model without notice.

14. TECHNICAL SUPPORT

For all warranty enquiries please contact your local distributor or contact Profacture directly and we will either direct you to your nearest authorised repairer or assist you with your enquiry.

Profacture Contact details:
P - 08 9354 3588
E - service@profacture.com
W - www.profacture.com.au

DISCLAIMER

Iinformation in this guide is intended to provide general informtion on a particular subject(s) in good faith and is not an exhaustive treatment of such subject(s). Its use is beyond the control of the author, contributor, publishers and distributors and should not be relied upon without consulting your local Professional for comprehensive advice.

This guide includes subject(s) that should only be performed by or under the direction and advice of your local Professioanl and under no circumstances should the guide be used as a substitute for such professionals.

No representations or warranities are made that the content, advice and recommendations in this guide are current, free from errors or omissions, or appropriate for the user's circumstances or abilities. No liability or responsibility is accepted for any loss suffered as a result of any user's reliance on such content.

Repairs should only be carried out by qualified persons or Profacture appointed agents.

Profacture reserves the right to refuse warranty if any damage caused to the chlorinator or auxiliary pool equipment that is not a result of a manufacturer's defect.

15. NOTES

Profacture Contact details:
P - 08 9354 3588
E - service@profacture.com
W - www.profacture.com.au