

# ***saltmate***

***leading edge saltwater chlorinators***



## **Operating Manual**

Auto-Clean, Standard and Pool Light Models



# Contents

## THANK YOU FOR CHOOSING TO BUY A SALTMATE PRODUCT

We are certain you will enjoy the hassle free pool maintenance it will provide you with, hopefully giving you and your family more time to enjoy your pool.

To ensure that you get the best results from your Saltmate chlorinator, please take the time to read through this operating manual.

Your Saltmate is backed with comprehensive warranty, as detailed on page 10, retain this manual in a safe place along with your proof of purchase.

### YOUR KIT CONTAINS:

1x Power Pack, 1x Wall Bracket, 1x Salt Cell & Housing Complete, 1x Operating Manual

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# Know Your Saltmate

## DELUXE AUTO-CLEAN CHLORINATOR (Includes RP20, RP30 & RP40)



## DELUXE SALTWATER CHLORINATOR (Includes SMT50, SMT90, SMT120, SMT150 & SMT200)



## DELUXE AUTO-CLEAN & DELUXE STANDARD CHLORINATOR (with inbuilt light transformer)



# Installation Instructions

## The Power Pack

Your Saltmate is weather protected to an IP34 rating. The power pack should be mounted to the bracket 1 to 1.5 metres above ground level and located so that the cell power lead can reach the junction box.

Your Saltmate should be installed in a well ventilated position ensuring that pool chemicals (esp. acid) are not stored in the direct vicinity, as the fumes may damage vital components.

Plug the 3-pin power plug of your Saltmate into a suitable 240 volt A.C power supply. Plug the 3-pin power plug of your filter pump into the 240 volt A.C power point on the underside of your Saltmate power pack. Please ensure that only the one filter pump is plugged into the socket at the base of the power pack.

## The Electrolytic Cell

Your Saltmate cell must be plumbed last in the pool pipework after all other pool equipment just before the return to the pool, ensuring the cell can be removed. For maximum efficiency your cell should be installed with the water entering the cell housing at the end closest to the cell lead (see image below).

Ensure that the cell is positioned horizontally so that the gas bubbles formed by the cell will be trapped in the cell housing when the pump is turned off. If you are in any doubt about the gas trap requirements please contact Saltmate head office, or your Saltmate supplier.

The cell lead must be connected to the junction box under the power pack. Connect blue to blue, brown to brown and black to black. Be sure to replace the junction box cover.

## ELECTROLYTIC SALT CELL (Size and type vary by model)



# Chemical Maintenance

## INITIAL PREPERATION

Ensure minimum salt level 4000ppm. If the pool is new to saltwater acquire ideal salt level of 5000ppm by adding 50kg per 10,000 litres (a standard 50,000 litre pool would require 250 kg salt) at start up.

If salt level needs to be risen, after adding required salt super chlorinate pool with liquid chlorine or sodium dichlor (raise chlorine level to 3-4ppm). Turn the chlorinator cell to “off” and turn pump switch to “man” to start filtration system for a minimum period of 24 hours.

After the 24 hour period, or if the salt is at the required level turn the cell switch to “on” and the pump switch to “manual” or “auto”.

## RECOMMENDED LEVELS TO ENSURE OPTIMAL OPERATION

Pool chemistry should be tested at least once a week during summer months.

### Salt Level

4000ppm - 6000ppm by weight with 5000ppm being ideal (never below 4000ppm). All Saltmate models are over-salt protected and can run with levels higher than 6000ppm (ie: sea water)

### Free Chlorine

1.5ppm - 3.0ppm depending on the time of day, and period of time since the chlorinator has been running. Adjust by altering the chlorine output level or the operating hours. If levels have become too low manual super chlorination may be required.

### pH and Total Alkalinity

A pH of 7.2 to 7.6 and a total alkalinity of 80ppm - 120ppm unless advised otherwise by your pool professional. Fibreglass pool suppliers usually recommend a pH of 6.9 to 7.2. To lower the pH and total alkalinity add hydrochloric acid, to raise the pH and total alkalinity add sodium bicarbonate. These levels may not be achievable with some water supplies.

### Stabiliser

40-80ppm, pool stabiliser, also called cyanuric acid helps the chlorine produced to last longer. Without it in your water your chlorinator will need to run longer than it otherwise would.

### Hardness

100 to 250 ppm. Levels higher than the recommended level will result in a less efficient cell in regards to its chlorine production, a more frequent need for cleaning, and a chance the cell will fail prematurely. To minimise chances of high hardness levels minimise or avoid the use of chemicals containing calcium, especially, “Calcium Hardness” and calcium-based granular chlorine.

# Operating Your Saltmate

## STARTING UP

Once correctly installed and ensuring the minimum level of salt has been achieved, switch the chlorinator on at the main power supply. Position the pump switch to 'man', and once the pump has fully primed position the cell switch to 'on'.

The chlorine output indicator on your Saltmate can be used to check the pool salt level. Turn the chlorine output control clockwise to achieve the maximum setting (100%). If this cannot be achieved, check pool water for low salt level. If using a SMT model and the chlorine output indicator reaches the red overload area due to a high salt level, turn the output control down so the indicator is set in the blue zone.

Set your daily operating time as per instructions below and set the chlorine output indicator at 80% - 100%. Test the free chlorine level in the pool water after 24-48 hours, adjusting the chlorine output to the desired level depending on your pool's requirement. It is recommended your Saltmate should be set to generate a free chlorine level of 1ppm to 3ppm.

## DAILY OPERATING TIME

The required chlorinator operating time varies throughout the year. Long periods of hot weather require longer chlorinator operation time because the higher water temperature and increased sunlight break the chlorine produced by your Saltmate down more quickly.

To be sure that your Saltmate is being run for long enough, check your pool chlorine level regularly. If the chlorine reading is low, turn the chlorine output dial up (clockwise), and/or run the chlorinator and pool pump for longer.

If the chlorine reading is high, turn the chlorine output dial down (anticlockwise), or reduce the chlorinator and pool pump operating time.

Super chlorination can be achieved by running your Saltmate overnight. This practice is recommended about once per fortnight during summer.

## SETTINGS FOR POOL OPERATIONS

The following is a guide to setting your Saltmate to perform various pool operations.

OPERATION	240V SUPPLY	CELL SWITCH	PUMP SWITCH
Run pump & chlorinator via timer	ON	ON	AUTO
Run pump & chlorinator manually	ON	ON	MAN
Vacuum or backwash	ON	OFF*	MAN
Clean cell or cartridge filter	OFF & REMOVE PLUG	OFF*	OFF

\* When turning cell switch to the 'off' position for backwashing, cleaning cartridge or cleaning cell **REMEMBER** to turn cell back to the 'on' position when resuming normal filtration operation.

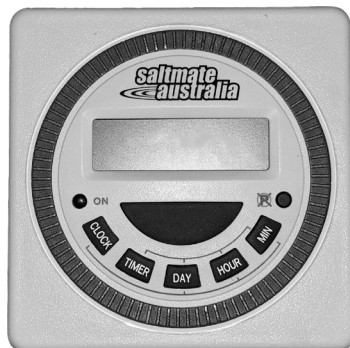
# Operating Your Saltmate

## SETTING THE TIMER

### 1 General Information

Your Saltmate digital timeclock can be set with up to 16 programs. Each of these programs can be set to repeat either daily, weekly, daily during weekdays, daily on weekends and a variety of other combinations to maximise flexibility.

This timeclock includes an internal replaceable battery (Lithium CR2032) for retaining your programming in the event of power failure or when being disconnected from the mains power.



24hr Digital Battery Backup Timeclock  
Actual timer may vary

**IMPORTANT: When first installed or if disconnected from power and reconnected, Timer Programs will not execute mid cycle, they will execute at the next ON Program scheduled.**

### 2 Operation

Your Saltmate should come factory set and programmed to run every day, twice per day for a total of 8 hours as follows: Timer-Program 1 - ON at 06:00, OFF at 10:00; Timer-Program 2 - ON at 16:00 OFF at 20:00.

*This booklet contains instructions for adjusting or resetting the Timer-Programs. We recommend you keep these instructions for future reference.*

#### PANEL BUTTON DESCRIPTIONS

1. **CLOCK** : PRESS to return display to CLOCK MODE, HOLD down to ADJUST CLOCK (current day and time)
2. **TIMER** : PRESS to enter PROGRAM MODE and cycle through programs
3. **DAY** : To adjust day of week or cycle through Daily-Programs
4. **HOUR** : To adjust hour
5. **MIN** : To adjust minute
6. **Ⓟ** : Reset Timer settings
7. **LED** : To indicate ON/OFF status

### A CLOCK MODE - Setting/Adjusting Clock

When in CLOCK MODE the screen should display the current TIME and DAY. To return to CLOCK MODE from PROGRAM MODE, Press **CLOCK**.

#### SETTING/ADJUSTING CLOCK

PRESS and HOLD **CLOCK** while simultaneously PRESSING the **DAY** key to cycle through day until you have selected current day.  
PRESS and HOLD **CLOCK** while simultaneously PRESSING **HOUR** or **MIN** key to adjust clock to the current hour and minute respectively.  
RELEASE **CLOCK** to exit adjust mode.

# Operating Your Saltmate

## SETTING THE TIMER (cont.)

### B DAILY PROGRAMS

The table below contains the 15-combination of Daily-Programs available when setting a Timer-Program in PROGRAM MODE.

1. MO TU WE TH FR SA SU	6. FR	11. MO TU WE TH FR SA
2. MO	7. SA	12. MO TU WE
3. TU	8. SU	13. TH FR SA
4. WE	9. MO TU WE TH FR	14. MO WE FR
5. TH	10. SA SU	15. TU TH SA

### C PROGRAM MODE - Setting/Adjusting Timer Programs

- From CLOCK MODE, PRESS the *TIMER* key to enter PROGRAM MODE.
- The LCD screen will display the program number (i.e. "1" in image below) as well as the text "ON" indicating this is Timer-Program 1 - here you can set or adjust the ON time and Daily-Program of Timer-Program 1.

1<sup>ON</sup> \_ : \_ \_ \_ \_

- PRESS the *DAY* key to select any of the 15-combinations of Daily-Programs, continuing to PRESS the *DAY* key will cycle though until you reach your selection. The combination selected will be indicated at the top of the LCD screen. i.e. "MO TU WE TH FR SA SU" would indicate that the current Timer-Program will operate daily.
- PRESS the *HOUR* or *MIN* key respectively to adjust and set the desired hour and minute you would like the Timer-Program to TURN ON.
- After you finish selecting or adjusting the ON time and Daily-Program, PRESS the *TIMER* key again to be able to set/adjust the OFF time of the same Timer-Program (i.e. "1" in image below).

1<sup>OFF</sup> \_ : \_ \_ \_ \_

- PRESS the *HOUR* or *MIN* key respectively to adjust and set the desired hour and minute you would like the Timer-Program to TURN OFF.
- IMPORTANT: DAILY-PROGRAM SELECTED IN EACH TIMER-PROGRAM MUST BE CONSISTENT ON BOTH ON/OFF SETTINGS.**
- When finished setting a Timer-Program, PRESS the *TIMER* key to move on to the next Timer-Program (i.e. "2" in image below).

2<sup>ON</sup> \_ : \_ \_ \_ \_

- If a second or additional ON/OFF Timer Programs are desired, repeat steps 2-6 for each Timer Program. There are 16 Timer Programs available. **HOLDING the *TIMER* key for 3 sec will CLEAR selected Timer-Program.**
- Continuing to PRESS the *TIMER* key will cycle though all Timer-Programs. When finished setting desired Timer-Programs, PRESS the *CLOCK* key to return to CLOCK MODE and the Timer will start to execute programs.
- IMPORTANT: When first installed or if disconnected from power and reconnected, Timer-Programs will not execute mid cycle, they will execute at the next ON Program scheduled.**

# Operating Your Saltmate

## SETTING THE TIMER (cont.)

### D DELETING/RESETTING TIMER-PROGRAMS

Press the  button to clear/reset all Timer Programs.

### 3 MANUAL OVERRIDE

To have Timer-Programs automatically operate your Saltmate saltwater chlorinator the switch on your Saltmate must be set to *AUTO*.

To override programmed timers and turn your Saltmate on manually, the switch on your Saltmate must be set to *MAN*, this will make power available to your device at all times until switched back to *AUTO*.

### 4 KEY LOCK FUNCTION

1. While in *CLOCK MODE* press both the *DAY* and *HOURLY* keys for 6 seconds. The Key Lock function will be enabled, you will see the icon flashing on the screen.
2. Every key function EXCEPT the *RESET* key will be locked in Key Lock mode.
3. Pressing both the *DAY* and *HOURLY* keys for 6 seconds again will cancel the Key Lock function, the icon will disappear from the screen

### 5 TROUBLESHOOTING

**Not turning off** - Check that desired programs are set correctly and that Daily-Programs are consistent on both the *ON/OFF* settings of each Timer-Program.

Ensure there are no Timer-Programs other than those you want set (i.e. "3 ON", "4 ON", etc). If a Timer-Program is not set it should show --:-- , a time of 0:00 means this program is set for midnight and may interfere with other programs at this time. HOLDING the *TIMER* key for 3 sec will CLEAR selected

Timer-Program. Try clearing/resetting Timer-Programs (section 2D).

Ensure pump is plugged into the socket on your Saltmate.

**Not turning on** - Ensure pump is plugged into the socket in your Saltmate and that the powerpoint switch is turned on. Switch your Saltmate from *AUTO* to *ON* to test if the plugged in equipment is working and if there is power to the devices.

# Looking After Your Saltmate

## LOOKING AFTER YOUR SALTMATE POWER PACK

Do not carry out any maintenance or repair work other than that shown in this operating manual or advised by Saltmate, and only use parts recommended by Saltmate. If you do not it could invalidate your warranty.

- Do not store pool chemicals in a confined space with your Saltmate. The fumes can breach cooling vents and damage vital components.
- Small insects can also enter cooling vents causing damage to vital components. To avoid this happening, routinely spray insect repellent to the surfaces around the power pack.

## LOOKING AFTER YOUR SALTMATE ELECTROLYTIC CELL

Your cell is a delicate piece of equipment and needs to be maintained correctly. There are several key points that need to be followed to avoid premature failure of your cell

- Ensure your pool water is correctly chemically balanced with a pH of 7.2-7.6, a total alkalinity level of 80-120ppm, and a calcium hardness level of 100-250ppm.
- Never operate with salt levels below 4000ppm, paying particular attention after high rainfall periods and remember not to neglect routine testing through the winter.
- Do not add salt through skimmer box, only add directly in to pool water.
- When cleaning cell (see below) only use cell cleaner obtainable from your local pool shop. Never use hydrochloric acid or any instrument like a screwdriver to scrape contamination off the cell.

## CLEANING THE ELECTROLYTIC CELL

Your Saltmate cell operates only efficiently when it is clean. To check your cell for cleanliness, disconnect the mains power supply, unscrew the nut at the top of the cell housing and remove the cell electrode. A “dirty” electrode will have visible deposits of calcium and other matter built up.

RP models under normal conditions automatically reverse their polarity to clean deposits off the cell, though other factors like high calcium hardness levels in your water could result in the occasional need for a manual clean.

SMT models should initially be inspected on a weekly basis to see the rate of calcium build up, this will determine the cleaning cycle necessary for your pool (generally monthly).

To clean your cell, after removing it from the housing immerse in cell cleaner liquid obtainable from your local pool shop for five to 10 minutes until the cell appears clean. Agitating the cell while immersed will speed up the process, the less time the cell is spent in the liquid the better. Rinse with fresh cold water before reassembling the cell into the housing.

When regularly cleaning the cell it is essential to use on the cell o’ring, a silicone based lubricant each time the cell is cleaned. This ensures that no leakage occurs from the cell housing.

# Troubleshooting

Listed below are several indications that the chlorinator is not operating efficiently and the checks required to correct the problem.

## TO TEST CHLORINE PRODUCTION

1. With the pump running and the chlorinator turned on, using your pools test kit, take a water sample as close as possible to the water return outlet. This should be taken by placing your thumb over the sample tube, placing the tube in the return stream and removing thumb to ensure you are testing water coming from the chlorinator. Test chlorine reading (a).
2. Take another sample as far as possible from the pool return and test chlorine reading (b).
3. Compare the readings obtained in (a) & (b). The reading from (a) should be much greater than that of (b).
4. Adjust the chlorine output control or operating time to ensure free chlorine levels are maintained at a 1.5 to 3.0 ppm. Super chlorination may be required if free chlorine level has become too low.

## THE CHLORINE INDICATOR DOES NOT READ UP WHEN THE CELL IS ON AND THE PUMP IS RUNNING

- Is the filter clean? Backwash or clean filter.
- Are the baskets clean? Empty all baskets.
- Is the salt level correct? Test salt level
- Is the pool water level correct? Top up pool to a minimum of 2/3rds of skimmer.
- Is the power on? Check pump plug secure underside of Saltmate and mains power plug.
- Is the circuit breaker set? Push back in if popped out.
- Is the cell clean? Clean cell.

## THE FREE CHLORINE RESIDUAL IN POOL IS LOW

- Is the pool chemistry correct? Test all levels (especially salt, pH & phosphates).
- Is chlorine output indicator set to 100%? Turn output control to reach 100%.
- Is the chlorinator being run long enough each day? Increase daily operating time.
- Is stabiliser being used? Test and add stabiliser to pool water?
- Is the chlorinator producing chlorine? Test for chlorine production.

## NO WATER FLOW INDICATOR

Saltmate cells contain a sensor that checks for proper water flow and for safety purposes if adequate water flow is not sensed your Saltmate will cease to produce chlorine until the problem is resolved.

If this situation occurs, the chlorine output indicator will drop to zero, while RP models also have a no flow indicator light which will light up if proper water flow is not detected and turn off once the problem has been resolved.

# Saltmate Warranty

Your Saltmate saltwater chlorinator is manufactured to the highest standards employing the latest technologies and subject to the terms below, Saltmate Australia Pty Ltd (ABN 77 115 408 010) provides the following Express Warranty should a fault occur due to faulty manufacture or materials.

**IMPORTANT: Two year conditional manufacturer's warranty which covers faulty manufacture or material. This warranty covers DOMESTIC USE ONLY. This does not apply to 24hr and/or commercial use such as public pools, hotels, schools, health clubs, hospitals, etc. Warranty for this type of use is 12 months only.**

Saltmate Australia (the manufacturer) warrant the original purchaser of the Saltmate Power Pack for a period of 24 months from the DATE OF PURCHASE. This warranty only applies to failure caused by faulty manufacture or materials and is subject to conditions below. The manufacturer also warrants the original purchaser of the Saltmate electrolytic cell against faulty materials or manufacture for a period of 24 months from the DATE OF PURCHASE. Saltmate also warrant the electrolytic cell for a further 36 months to be repaired or replaced at a monthly pro-rata price from the DATE OF PURCHASE at the Recommended Retail Price at the time of warranty claim. This warranty only applies to failure caused by faulty manufacture or materials and is subject to conditions below.

The liability of the manufacturer under this express warranty is limited. If after assessment, and before the end of the warranty period, the product is found to be defective in workmanship or parts, the manufacturer, at its option, will repair or replace the product or the defective part free of charge (return freight included). The manufacturer reserves the right to replace defective parts of the product with parts and components of similar quality, grade and composition where identical parts or components are not available. Products presented for repair may be replaced by refurbished goods of the same type rather than being repaired.

**Should you wish to make a warranty claim, you must in the first instance contact the supplier of the Saltmate product, a Service Agent or Saltmate directly. YOU WILL NEED PROOF OF PURCHASE TO MAKE ANY WARRANTY CLAIM, so please keep your receipt safe. This Express Warranty only applies if the product has been purchased from a dealer authorised by the manufacturer to supply it (Authorised Dealer). Saltmate products purchased from other sources are not covered by this express warranty.**

If the repair is to be carried out outside the manufacturer or its authorised service agents, a service fee is applicable. It is the customer's responsibility for the cost of freight both ways in all other circumstances. This service fee cost is available on request from the manufacturer or its agents.

If assessment and testing finds no defect in the product, the customer must pay the manufacturer's usual costs of service work and testing. If such inspection and testing finds a defect that is not covered by this express warranty, the customer must pay the manufacturer's usual costs of service work plus any parts and labour required to repair the Product.

The manufacturer accepts no responsibility for loss, damage or injuries to person or property arising from warranty failure of equipment, or installation of that equipment. Except with the authority of the manufacturer any replacement shall be provided only by the manufacturer or its authorised distributors and this warranty shall not extend to any expenditure otherwise incurred.

# Saltmate Warranty

The express warranty is void in the following circumstances:

1. Damage resulting from the product not having been maintained or installed in accordance with the manufacturer's instructions included in this operating manual.
  - a. The power pack must not be connected to a power supply other than 240 volt 50 Hz. Never plug more than one pump or any other appliance into your Saltmate.
  - b. Chemicals must NOT be stored directly under or near the powerpack. Resulting damage is not covered under this express warranty.
  - c. Water must flow freely through the cell when turned on.
  - d. A cell blocked or damaged with calcium scale causes the cell to fail prematurely, and is not covered by this express warranty.
  - e. The cell must only be cleaned with a recommended cell cleaner. Never use concentrated acids.
2. Damage to product resulting from matters beyond the manufacturer's control (including damage caused by power surges, lightning strikes, flood or storm water, or insect ingress).
  - a. Saltmate saltwater chlorinators are designed and tested in accordance with Australian Standards. They are designed to tolerate minor fluctuations in power supply that can be reasonably expected to occur in the energy grid. They will not tolerate power surges outside these limits (i.e lightning strikes).
  - b. Damage during freight, accident, negligence, abuse, or misuse.
3. The product having had unauthorised alterations, modifications or work carried out by unauthorised technicians. The product must not be serviced by any other person(s) other than the person(s) authorised by Saltmate Australia.
4. Damage to product resulting from use outside recommended operating conditions.
  - a. Saltmate chlorinators are designed for use with swimming pool water balanced in accordance with applicable Australian Standard and manufacturer's guidance (see pg. 4). Improper maintenance, where pool water is not maintained within these parameters, the manufacturer will not be responsible under this express warranty for any resulting damage, including damage caused by corrosion, scaling or stress loading. Upon assessment, the manufacturer may request historical evidence of correct maintenance, in the form of routine water test results spanning the duration of the warranty period to support a warranty claim.
  - b. Running the chlorinator with less than 4000ppm salt in your pool will destroy the electrolytic cell's anode coating, voiding warranty.
  - c. Water above the temperature of 45 degrees Celsius must not flow through the cell.
5. No warranty is applicable without proof of purchase. This express warranty is not transferable and applies to the original purchaser only.
6. This express warranty does not apply to normal wear and tear

**The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal or state legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.**

Saltmate Australia makes no express warranties or representations other than set out in this express warranty. The repair or replacement of the product or part of the product is the absolute limit of Saltmate Australia's liability under this express warranty.

# Warranty Checklist

IN THE EVENT OF PRODUCT FAILURE PLEASE CONTACT  
SALTMATE OR ITS AGENTS FOR SERVICE DETAILS

## WARRANTY CHECKLIST

BEFORE you contact Saltmate for a warranty claim please ensure you consider the following points:

1. Have you filled out your warranty registration at ***saltmate.com.au/register***
2. Do you know what the warranty covers?
  - The Power Pack (2 year conditional warranty)
  - The Electrolytic Cell (2 year conditional warranty plus 36 month pro rata at RRP)
3. Have you correctly tested your pool water for salt level? Your nearest pool shop should be able to do this test for you - Ideal range for your Saltmate is 5000 ppm-6000 ppm. Never below 4000 ppm.
4. Have you cleaned your cell as per the manufacturer's instructions?
5. Have you read and understood the Saltmate operating manual?
6. Is your Saltmate correctly installed as per the directions in the operating manual?
7. Pro rata warranty pricing is based on the recommended retail price at time of claim.
8. Do you have a copy of the proof of purchase from either the pool builder or retailer where you purchased the Saltmate?

**REGISTER YOUR SALTMATE PRODUCT ONLINE AT:**

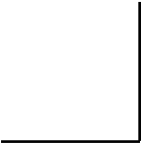


**saltmate.com.au/register**

*(or contact Head Office - see page 15 for contact details)*

# Proof of Purchase

AFFIX PROOF OF PURCHASE HERE



Manufactured by:



ABN 77 115 408 010

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