

# *inver*CHLOR

Mineral & Salt Chlorinator



INSTALLATION MANUAL

# WELCOME

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This is the instruction manual for your Madimack's InverCHLOR Mineral & Salt Chlorinator. This guide will help you understand the operation and maintenance of your filter, ensuring clean and clear pool water for your enjoyment.

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# 1 | SAFETY WARNINGS



## **WARNING: General Information**

1. Carefully read all the instructions in this manual and on the device. Failure to read and comply with the instructions can cause injury. This document must be given to the product owner, who should keep it in a safe place for reference.
2. Chemicals can cause internal and external burns. To avoid death, serious injury and/or damage to equipment, always wear personal protective equipment (gloves, goggles, mask, etc.) when servicing or maintaining this device. This device must be installed in an adequately ventilated place.
3. The appliance is not to be used by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
4. Children must not play with this device. User maintenance and cleaning must not be carried out by unsupervised children.
5. Use only genuine Madimack spare parts.



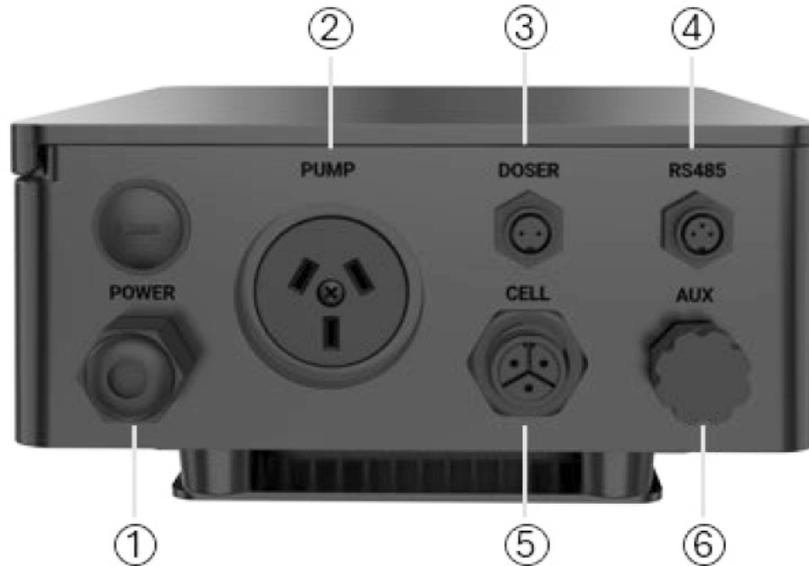
## **WARNING: Electrical Hazard**

1. This equipment is intended to be used on swimming pools only.
2. Disconnect the equipment from the mains supply before any intervention or maintenance.
3. All electrical installations must be carried out by a qualified and approved electrician in accordance with the standards currently in force in the country of installation.
4. Check that the device is plugged into a power outlet that is protected against short-circuits. The device must also be powered via an isolating transformer or a residual current device (RCD) with a nominal operating residual current not exceeding 30 mA.
5. Check that the supply voltage required by the product corresponds to the voltage of the distribution network and that the power supply cables are suitable for the products power demand.
6. To reduce the risk of electric shock, do not use an extension cable to connect the device to the mains. Connect directly to a wall socket.
7. This device must not be used if the power cord is damaged. An electric shock could result. A damaged power cord must be replaced by after-sales service or similarly qualified persons to avoid danger.

## 2 | SPECIFICATIONS

MODEL	inverCHLOR 10	inverCHLOR 20	inverCHLOR 30	inverCHLOR 40
100% Chlorine Production (salinity @ 3000ppm)	10g/hr	20g/hr	30g/hr	40g/hr
Recommended Salinity	3000ppm (3g/L)			
Salinity Operating Range	12000-6000ppm			
Power Supply	220~240VAC 50/60Hz			
Cell Amps @3000ppm	4a	7a	105a	14a
Cell Voltage	12v			
Water Flow Rate	80-400lpm			
Water Connections	40/50mm			
Water Temperature	5°C~40°C			
Ambient Temperature	-5°C~42°C			
Cell Housing Max Pressure	450kPa (4.5 Bar)			
Cell-Housing Material	PETG (Chemical resistant thermoplastic polymer)			
IP Rating	IP65			
Cell Lifetime	Up to 10,000 Hours			
Controller Dimensions (mm)	327 x 117 x 150			

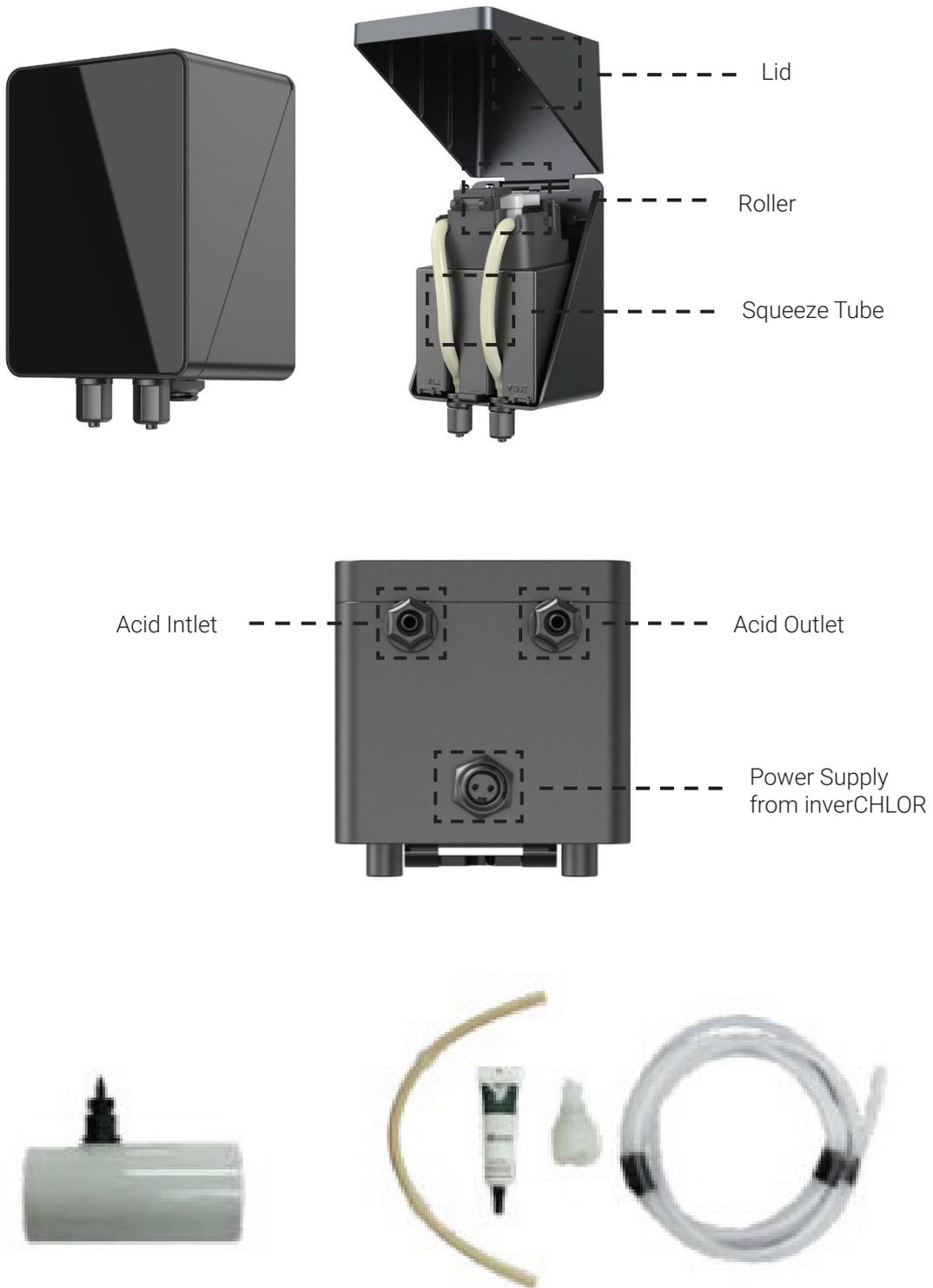
### 3 | PRODUCT OVERVIEW



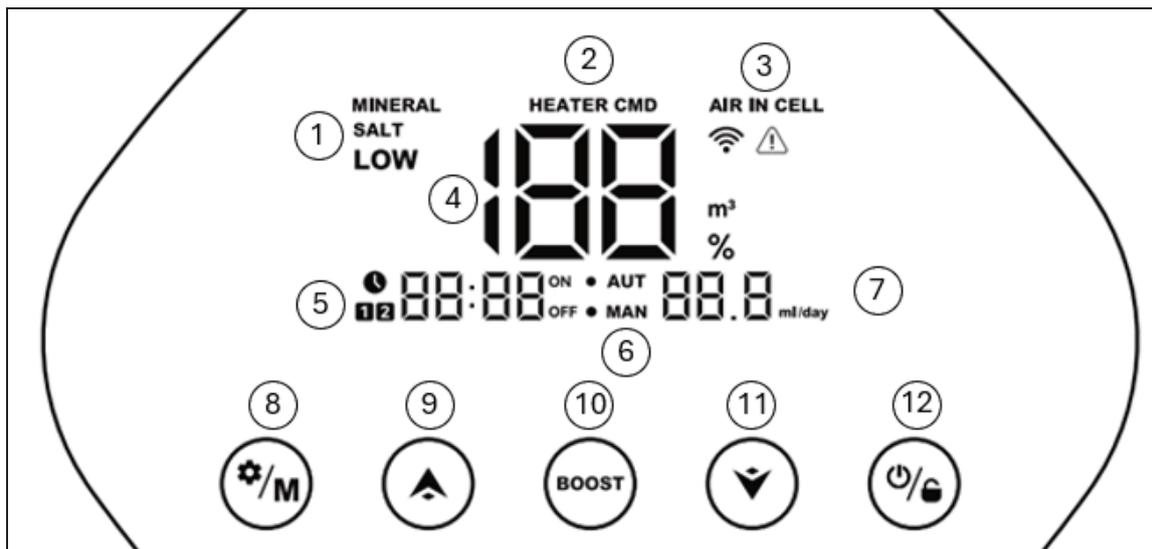
NO.	PORT NAME	PHOTO	DESCRIPTION
1	Power Input		AC Power Connector (220~240V, 50/60Hz)
2	Pump (Water Pump Socket)		Pump power outlet connection (max 9amps)
3	Doser (Optional)		Connector for the optional pH Dosier. Push in the plug end and hand tighten the locking nut.
4	RS 485		**Future provision only
5	Cell Power Output		Connect the lead from the Cell housing to the port labelled CELL. Push in the plug end and hand tighten the locking nut
6	AUX (Heater)		If using the pump call (HEATER CMD) function, connect the communication cable from the heat pump to the supplied AUX plug, then push the plug into the port and hand tighten the locking nut.

**TIP:** The connection ports have keyways that only allow the cable connection in one orientation.

### 3.1 | pH Doser



## 3.2 | Control Display Overview



Marked Area	Description	Icon
①	<ul style="list-style-type: none"> <li>Pool Salt Type (mineral/salt)</li> <li>Low Salt Alarm</li> </ul>	<b>MINERAL SALT LOW</b>
②	Heater- pump call activated	<b>HEATER CMD</b>
③	<ul style="list-style-type: none"> <li>Air detected in cell</li> <li>Wi-Fi Connection status</li> <li>Error Notification</li> </ul>	<b>AIR IN CELL</b> Wi-Fi icon, warning triangle
④	<ul style="list-style-type: none"> <li>Chlorine Production%</li> <li>Pool Volumem 3</li> </ul>	100 m³ %
⑤	<ul style="list-style-type: none"> <li>Timers Enabled</li> <li>Time Display</li> <li>Timer Active or Inactive</li> </ul>	00:00 ON OFF
⑥	Chlorine Mode (Auto/Manual)	• AUT • MAN
⑦	Acid Dosing ml/day	00.0 ml/day
⑧	Settings/ Menu	Gear/M icon
⑨	Adjust Up	Up arrow icon
⑩	Boost Mode	BOOST icon
⑪	Adjust Down	Down arrow icon
⑫	Power/ Lock Screen	Power/Lock icon

## 3.3 | Controller Commands And Functions

Command Keys	Function
	<ul style="list-style-type: none"> <li>• <b>Power ON/OFF:</b> Tap on home screen</li> <li>• <b>Lock/Unlock:</b> Hold for 3 seconds. (The auto lock function will be activated after 1 minute without any operation)</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Activate BOOST:</b> Tap on for 24 hours constant operation.</li> <li>• <b>Exit BOOST:</b> Hold for 3 seconds</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Press:</b> Main Settings (Mode/Dosing/Timers)</li> <li>• <b>Hold 3 Secs:</b> Pool Settings (Clock/ Volume/ Salt type)</li> <li>• <b>Save new setting:</b> If setting is flashing, hold for 3 seconds (or automatically saves after 1 minutes without operation)</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Adjust Up:</b> On the home screen will adjust chlorine output up in 1% increments. (hold to increase speed)</li> <li>• When limit reached soft beep will sound</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>Adjust Down:</b> On the home screen will adjust chlorine output down in 1% increments. (hold to increase speed)</li> <li>• When limit reached soft beep will sound</li> </ul>

## 4 | INSTALLATION

### 4.1 Pool Water Preparation

Before operating the InverCHLOR it is important to prepare the pool water. The water chemistry must be balanced, and salt added. Certain adjustments to the chemical balance of the pool can take several hours.

**NOTE:** This procedure MUST be started well before the chlorinator is turned on.

#### 4.1.1 Adding salt before operation

Add the salt at least 24 hours before turning on the InverCHLOR with the pump running. Ensure that the salinity is within the recommended range. The ideal level is 3000ppm. Measure the salt content 6 to 8 hours after the amount has been added to the swimming pool.

#### IMPORTANT:

- If the water in the pool is not fresh and/or if it is liable to contain dissolved metals, use a metal remover, according to the manufacturer's instructions.
- If your water has previously been treated with a product other than chlorine (bromine, hydrogen peroxide, PHMB, etc.), neutralize this product or replace all the water in the pool.
- If using mineral salt (Magnesium chloride and / or Potassium chloride) add approx. 1.4 times the amount of normal salt. (Optimum mineral salt level 4200ppm)

#### 4.1.2 Water Balance

The water must be balanced manually BEFORE the device is started.

The following table summarizes the recommended levels for the InverCHLOR. Your water should be checked regularly to maintain these concentrations to protect the equipment and minimize surface corrosion or deterioration.

CHEMISTRY	RECOMMENDED LEVELS
Salt	Salt 3000ppm
Free chlorine	Free chlorine 1.0 to 3.0 ppm
pH	pH 7.2 to 7.6
Cyanuric acid (Stabiliser)	20-50 ppm, 0 ppm in indoor pools (Add stabiliser only if necessary. Do not exceed 50ppm)
Total alkalinity	80 to 120 ppm
Water hardness	200 to 300 ppm
Metals	0 ppm
Algaecide	Use of algaecide is an option, but must be copper free

## 4.2 | Installing the InverCHLOR

### 4.2.1 Location

- Choose a suitable, well-ventilated location within one metre of the filter equipment and mount the power supply vertically onto a wall or post that is at least as wide as the InverCHLOR controller.
- Madimack advises that the power supply should not be placed within 3 metres of the pool water.
- Connect the InverCHLOR power supply to an appropriate weatherproof power outlet/controller.
- Ensure the unit is kept away from acid and other chemical storage areas, as acid and chemical vapours can corrode the electronics inside the unit.
- The unit should also be kept away from heat sources. Proper ventilation is essential for correct operation.

### 4.2.2 Mounting the InverCHLOR

- Self-tapping screws and wall plugs are provided for quick and easy installation of the wall bracket.
- Once the mounting plate is in place, simply hang the InverCHLOR by aligning using the mounts on the back of the InverCHLOR with the lugs on the wall bracket and sliding down.

### 4.3 Installing the Cell Housing

#### WARNINGS

- ⚠ Ensure the cell housing is the highest plumbing point to allow correct operation of the air sensor protection
- ⚠ The Cell housing should be installed as the last piece of equipment before the water returns to the pool.

**IMPORTANT:** The solvent cement or primer can cause damage if allowed to contact the threads or the orings. This will prevent a seal causing a leak.

#### 4.3.1 Cell housing installation

The cell housing should be installed in a horizontal position to ensure adequate water flow over the cell plates and the air sensor. Failing to install in the is way may cause products faults and void warranty.



#### 4.3.2 Plumbing Connections

- The InverCHLOR is supplied with 40mm and 50mm unions to connect to the PVC plumbing.
- Ensure a suitable solvent cement is used to glue the unions to the pipework
- To avoid turbulent flow causing false readings with the air sensor, ensure a minimum of 200mm pipework for the inlet and outlet of the cell housing.
- Ensure the nuts are over the union tails before gluing them onto the pipework.
- Once the solvent cement has set, place the cell housing onto the pipework and hand tighten the union nuts with the orings in place.



## 4.4 | Installing the pH Doser



### WARNINGS:

If the following instructions are not followed, there can be damage to persons & products. This may also void warranties.

- Suitable Personal Protective Equipment (PPE) should be worn during the process. Consult warnings on chemical containers where necessary.
- The pool acid MUST be diluted before use. Always add the small amount of chemical to a large amount of water.
- A minimum dilution ratio of 3:1 (water to acid) is required to reduce the corrosiveness and extend the working life of the product. This equates to adding 3L HCl acid, to 12L of tap water. This should be done in a container suitable of use with HCl acid. Do not use Sulphuric Acid.

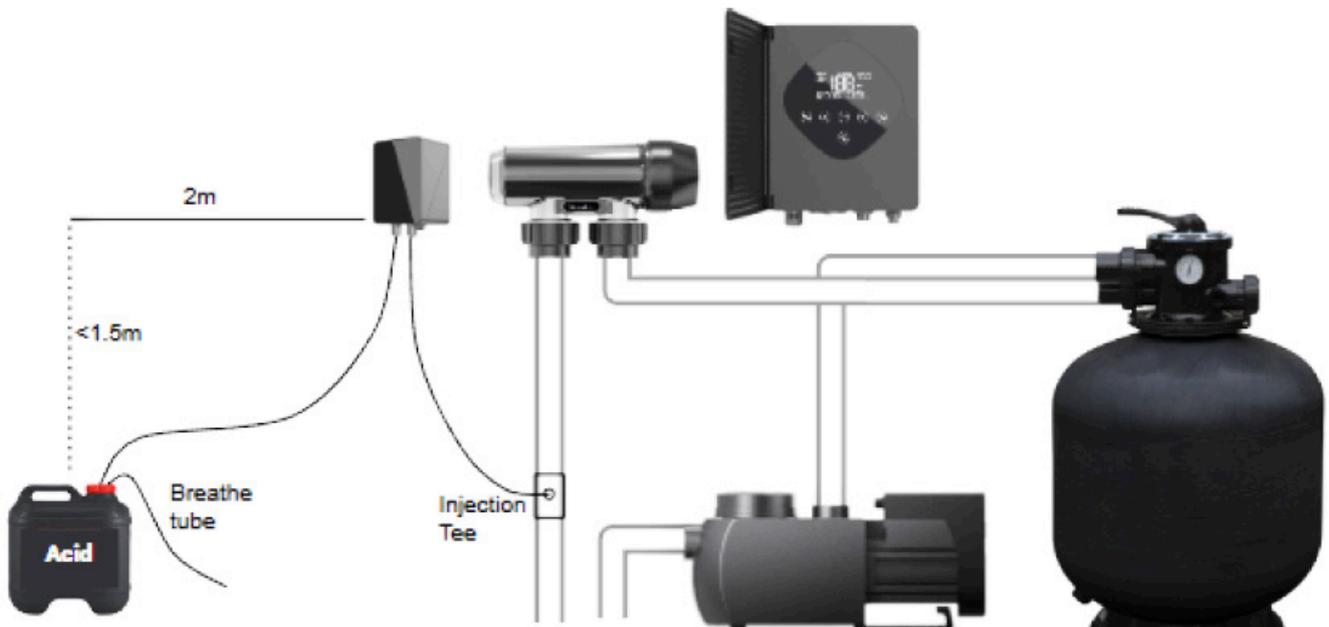
### 4.4.1 Location of diluted acid container and pH Doser

- ⚠ The acid drum used for the pH Doser pump may release corrosive fumes that can damage pool equipment and electrical or metal items.
  - ⚠ The diluted acid connected to the pH Doser must be stored in a well-ventilated area and more than 1m away horizontally from any pool equipment.
  - ⚠ The acid used for the pH Doser must be diluted a minimum of 3:1 water to acid. Always add chemicals to the larger amount of water.
- The pH Doser should be a minimum of 2m away from the acid drum but no higher than 1.5m above it.
  - The diluted acid connected to the pH Doser must be stored in a well-ventilated area and more than 1m away horizontally from any pool equipment.
  - A breather tube should be used out of the diluted acid container.

**Note:** The pH Doser is supplied with 5m of tubing to be used for suction and dosing.

### 4.4.2 Mounting the pH Doser

- The pH Doser comes with a mounting bracket attached.
- Fix one of the self-tapping screws into the desired location and hang the dosing pump using its wall bracket on the back. **IMPORTANT:** The solvent cement or primer can cause damage if allowed to contact the threads or the orings. This will prevent a seal causing a leak.



## 5 | FIRST TIME TO START UP

These steps will automatically load when you first start the InverCHLOR or if you perform a factory reset.

**Tip:** The instructions for these steps are found in this manual under the 'operation' section.

1. Set the 24hr clock
2. Set the Timers for AUTO Mode
3. Set the Pool Volume
4. Select the salt type (salt/ mineral)

## 6 | OPERATION (USING THE INVERCHLOR)

### 6.1.1 Setting the 24-hour clock

1. Hold  for 3 seconds
2. When the local time is blinking, set hours of the local time by tapping  and 
3. Tap  to set the minutes in the same way.
4. Hold  for 3 secs to save the new time or press  to continue to set the pool volume.

### 6.2 Pool Volume Setting

- Note: 1m<sup>3</sup> = 1000L
- Hold  for 3 seconds
- Press  two times to skip past the clock settings.
- The pool size value is now blinking, it can be adjusted from 5 to 150 m<sup>3</sup>, in increments of 5m<sup>3</sup>, by tapping  or .
- Tip: Hold the button can accelerate the selection speed.
- Hold  for 3 secs to save the new volume or press  to continue to set the salt type.

### 6.3 Salt Type Selection

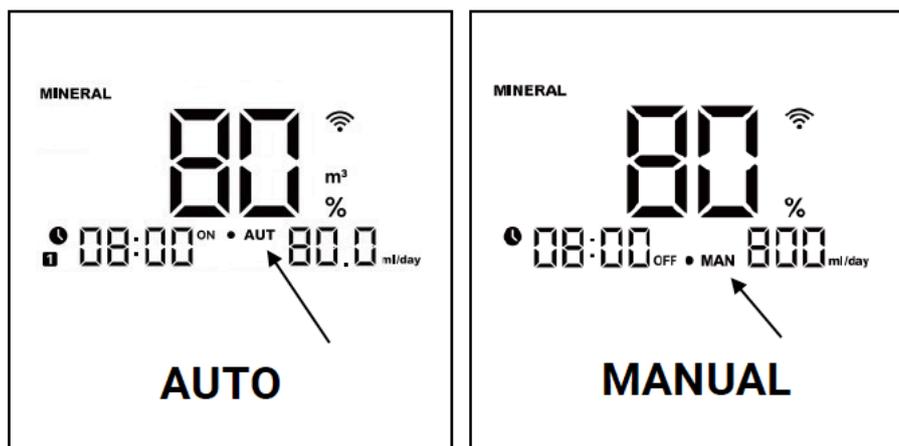
- Hold  for 3 seconds
- Press  three times to skip past the clock and volume settings.
- When the SALT is blinking, it can be changed to MINERAL or SALT by tapping  or .
- Tap  to complete the settings.

### 6.4 Setting the Mode (AUTO/ MANUAL)

The chlorinator can be configured to 2 different Chlorine production modes.

**Auto Mode:** Timer control of pump operation and chlorine output (1 or 2 Timers)

**Manual Mode:** Manual control of pump operation and chlorine output using the  button.



#### 6.4.1 Changing the Chlorine modes:

- With the screen unlocked, tap  to open the chlorine mode settings.
- When AUT or MAN is blinking, tap  or  to change between AUT or MAN.
- Hold the  button for 3 secs to save the new mode.

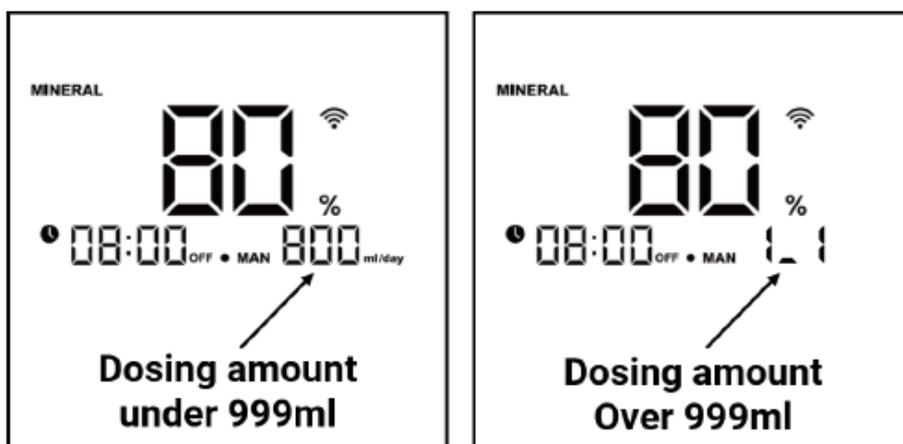
## 6.5 | Acid Dosing (with the added pH Doser)

### 6.5.1 Understanding the pH doser

Maintaining a constant pH has many benefits including reducing the amount of chlorine required, saving on other chemicals and protecting the pool surface.

- If you have added the pH Doser, you can set the daily dosage amount to assist in maintaining a consistent pH level.
- Once the amount is set, the InverCHLOR will use an algorithm to determine the times to dose and the amount to dose at each interval.

**TIP:** The dosing amount can be set up to 9.9L/day. It can be set in 10ml increments up to 999mls and thereafter it will increase in 100ml increments represented in Litres. E.g. 1\_1 for 1.1L.



### 6.5.2 Setting the Acid Dosage Volume

**IMPORTANT:**

This is a guide only. The required amount is affected by many variables. During the initial startup have the water tested frequently (i.e. daily) and make small adjustments until the pH level remains balanced.

**General 3:1 Diluted acid required:**

Pool Volume (L)	Daily Dose (ml of Diluted Acid 3:1)	Pool Volume (L)	Daily Dose (ml of Diluted Acid 3:1)
10000	150 - 350	60000	900 - 2150
20000	300 - 700	70000	1050 - 2500
30000	450 - 1000	80000	1200 - 2800
40000	600 - 1450	90000	1350 - 3200
50000	750 - 1800	100000	1500 - 3600

- To access the acid dosing volume setting. Press SETTINGS to show AUTO/ MAN.
- Press SETTINGS again to show the ml/day dosing amount flashing.
- The amount can be adjusted from 0ml to 999ml and then 1\_0L to 9\_9L, in increments of 10ml, by tapping or holding or .
- Hold the SETTINGS button for 3 secs to confirm.

## 6.6 | Setting the Auto mode Timers

- To access the timer settings. Press SETTINGS to show AUTO/ MANUAL.
- Ensure AUTO is selected and press SETTINGS again to show the dosing amount flashing.
- Press SETTINGS again to show the dosing amount flashing
- Press SETTINGS again to show the **TIMER ON** and **1**.
- When **1** and **TIMER ON** lights up, set the starting hour of the Timer 1 by tapping UP and DOWN, save the parameter by tapping SETTINGS, then set and save minutes in the same way.
- When **1** and **TIMER OFF** lights up, set the end hours and minutes for Timer 1 in the same way.
- When **2** lights up, set the start and end times for Timer 2, in the same manner.
- Tap SETTINGS to Confirm Timers setting.

**Note:** If timers are overlapped it will not save the timer.

### 6.7 BOOST MODE

#### 6.7.1 When to use Boost mode

Boost mode is useful when a countdown timer with 100% chlorine output is required. This can be after weather events, a high bather load or low chlorine levels detected requiring a boost.

- To turn on boost mode, tap **BOOST** with the screen unlocked.
- 100% output will display with a countdown timer starting at 23:59.
- The countdown timer is adjustable in 30-minute increments.
- The InverCHLOR will run at 100% chlorine output for the duration of the timer.
- To cancel boost mode at any time, tap **BOOST**.



#### NOTE:

- If alarms occur during the timer, the BOOST mode will cancel.
- If the InverCHLOR loses power, the 24-hour timer will restart when power is restored.
- When the boost mode stops, the system will revert to the settings prior to the boost.

### 6.8 Heater Command (pump call)

The InverCHLOR can act as a heat demand controller for the heater and filter pump. This allows the heat pump timers to start the filter pump without producing chlorine. This allows the heater to operate outside of the chlorination timers, avoiding over chlorinating.

- When the heater timers activate, the system sends a pump call signal, which is indicated by **HEATER CMD** on the display screen, instructing the pump to start without the InverCHLOR.
- The heater (AUX) and filter pump (Pump socket) must be connected to the salt chlorinator.

#### Diagram of Status Relationship (3 devices):

InverCHLOR Status	Heater Status	Water Pump Status
OFF	OFF	OFF
OFF	ON	ON
ON	OFF	ON
ON	ON	ON

### 6.9 Wi-Fi Configuration

1. Enter Wi-Fi pairing by unlocking the screen and holding SETTINGS and UP for 3 secs.
2.  will illuminate with counterclockwise pattern, then:
  - a. If  is lighted up, Wi-Fi connection will be active with 2 beeps sounding.
  - b. If  is lighted up with 3 sounds buzzer, Wi-Fi failed to connect, back to main screen.
3. Open the Invergo App and press the + symbol to add a new device.
4. The App will scan the nearby area for products in pairing mode.
5. Select the product to add it into the App.

### 6.10 Restore Factory Settings

- Tap SETTINGS to the next screen menu.
- Hold UP and DOWN for 3 seconds, hearing the beeper, the chlorinator is restored to factory settings.
-  will light up then the first-time startup process will begin.

**NOTE: Power-down memory:** Abnormal power failure during operation, when the power is restored, the controller automatically restarts and continues to run according to the state before power failure.

# 7 | MAINTENANCE

## 7.1 Adding Salt

**⚠ The InverCHLOR must remain OFF during this operation and until the additive is completely dissolved. Operating the InverCHLOR with non-dissolved salt could irreversibly damage the cell and the power supply, and lead to a void of the warranty.**

**⚠ For any new pool builds please wait for four weeks before adding salt into any recently cement coated pool and discuss this with your pool builder.**

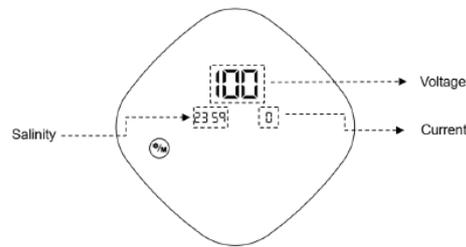
- Calculate the volume of the swimming pool and add 3 to 5 Kg of salt per 1000L.
- The ideal salinity range is 3000-5000ppm.
- Make sure the InverCHLOR is disconnected during the whole salt adding process.
- Turn on the filtration system for at least 24 hours, allowing the salt to dissolve completely.
- The salt dissolving process can be accelerated using a pool broom.
- The salt concentration may reduce over time due to rain or other periodic freshwater contributions (topping up, backwashing, etc.).

**IMPORTANT:** Whenever the salt concentration needs to be corrected, pour salt as close as possible to the return jets. Never pour salt in the skimmers or near any suction inlets.

Measuring Salinity reading

## 7.2 Monitoring Salinity/ Current/ Voltage

With the InverCHLOR on, enter the 'Monitoring' screen by holding  and  for 3 seconds.



## 7.3 Backwashing and Draining Water

As the InverCHLOR is protected by an air sensor it may produce an E3 (low flow) error when backwashing or draining water longer than 3 minutes. In the case you require further pump operation you can either clear the E3 error with the POWER button or plug the pump into a separate power outlet and operate it manually.

## 7.4 CELL MAINTENANCE

### 7.4.1 Cleaning the Cell (only if required)

The smart polarity inversion system is designed to prevent the electrode plates from corrosion and scaling (default setting is 4 hours). However, periodic cleaning may be required when the water hardness is too high.

The cleaning process is listed as follows:

1. Turn off the InverCHLOR and the filter pump, close the isolation valves, and ensure power is disconnected at the isolating switch.
2. Undo the two unions holding the cell housing to the plumbing.
3. Place the cell upside down and fill it with a salt cell cleaning solution so that the electrode plates are immersed.
  - a. Do not allow the cell cap assembly to be immersed.
4. Follow the instructions carefully on the salt cell cleaner product label.
5. Leave the cleaning solution to dissolve the scale deposit for about 15 minutes.
6. Dispose of the cleaning solution at an approved waste recycling site, never pour into the rainwater drainage system or into the sewers.
7. Rinse the electrode using clean water and put it back on the cell fixture collar (there is an alignment mark).
8. Retighten the union nuts, open the isolation valves and restart the InverCHLOR and filter pump.
9. If you do not use a commercially available cleaning solution, you can manufacture it yourself by carefully mixing 1 part of hydrochloric (pool) acid with 10 parts of water (Warning: always pour the acid into the water and not the opposite. Wear suitable protective equipment!).
10. Make sure that the setting of the polarity inversion cycles is adapted to the pool water hardness.

### 7.4.2 Removing the Cell Plates from the Cell Housing

1. Remove the end cap from the cell housing
2. Unscrew the locking ring on the end of the cell housing.
3. Carefully slide out the cell plates avoiding scratching or rubbing.

## 7.5 | pH Doser Maintenance

Pool acid its fumes are corrosive. It must be handled safely and according to the manufacturer's instructions. Not diluting the acid will result in premature deterioration of the dosing and squeeze tube potentially leading to leaks and voiding warranty.

The use of undiluted acid is indicated by discoloration of the tubing and/or the tubing losing flexibility. Following the maintenance schedule will prolong the life of the product and ensure correct operation.

**WEEKLY:** Check the level in the acid drum

**6 MONTHS:** Lubricate the squeeze tube with a silicone-based lubricant i.e. Oring lubricant

**YEARLY:** Replace the squeeze tube

### 7.6 Error Codes

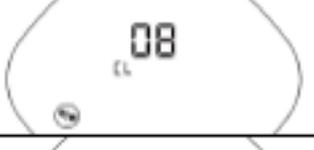
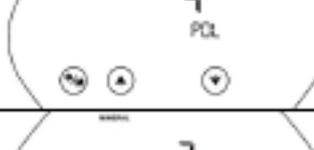
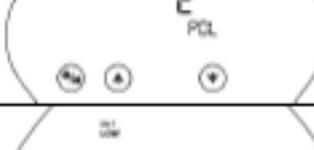
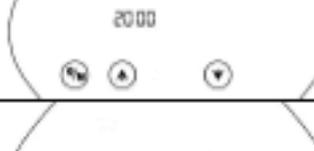
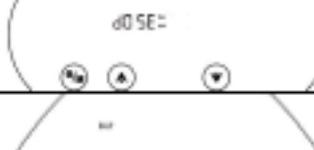
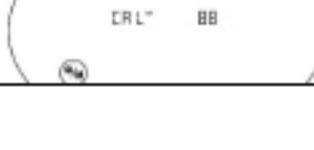
Error Code	Description	Occurs when	Action	Resolution
E1	Abnormal Electrolysis	a. Electrolytic output power greater than 10% b. Voltage less than 0.8V or current less than 0.3A	Stop electrolysis: Restart electrolysis after 30 minutes. If abnormal electrolysis is detected 3 times in a row, electrolysis function cannot be restarted again.	Self-clearing once the electrolysis is within the required range.
E3	Low Flow/ Abnormal water level	After the "AIR IN CELL" is displayed continuously for 210 seconds E3 will be triggered	Stop the pump output	Check flow. Clear blockages. Clean filter. Reprime pump.
E4	Over Temperature (Power pack)	InverCHLOR Temperature >75°C (Inside)	A. E4 occurred B. Stop electrolysis	When InverCHLOR Temperature ≤68°C

### 7.7 Display Indicators

Description	Condition	Action	Resolution
<b>AIR IN CELL</b>	Shows the status of the air sensor. If the air sensor is in contact with air for 6 seconds or more, it is determined that air is in the cell housing.	<b>AIR IN CELL</b> Appears as a warning to check flow.	Check flow. Clear blockages. Clean filter. Reprime pump.
<b>LOW SALT</b>	When the salinity is detected to be less than 2000ppm for 300 seconds, it is determined to be Low Salt.	Appears as a warning to check salinity.	Test the salt level and add the required amount. Self-clearing when salt level > 2500ppm
<b>HEATER CMD</b>	Read the on/off status of the heater for 15 seconds: If the heater starts/on for 6 seconds or more, it is determined that the heater is on and requesting pump start.	Shows when the heater is signalling the pump to start.	If no signal received Icon sill disappear and pump output stops

## 7.8 | Maintenance Mode for Authorised Personnel Only

- Turn off the unit first with the power button, so the display says OFF.
- Enter 'Maintenance Mode' by holding  and  together for 3 seconds.

No.	Function	Display	Note
1	Cell Production		Cell Output Testing - On/Off
2	Specifications Query		InverCHLOR 10/20/30/40 (Equal to 08/16/26/36)
3	Cell Life Span Status		Operating Hours of InverCHLOR – max limit display 9999 hours
4	Internal Temperature display		Display the real-time temperature (°C) of Power pack
5	Mode Display		F1 indicates dosing pump enabled
6	Polarity Reverse Setting (Salt)		Range: 1-10 h, Default: 4 h
7	Polarity Reverse Setting (Mineral)		Range: 1-10 h, Default: 2 h
8	Low salt alarm Setting		Range: 500-3000 ppm, Default: 2000 ppm
9	Acid Adding testing		eg. Set 88ml, the pump will activate to add 88ml of acid.
10	Dosing Pump Testing/ Priming		ON: Activate pH Doser OFF: Non Doser
11	Salinity Calibration		Pres  : Automatically calibrates the salinity to 3000ppm.

## 8 | WARRANTY

**STANDARD CONDITIONS** – Madimack Pty Ltd distributes pool products for Australia and New Zealand and provides the following warranty conditions: the individual warranty documentation can be found online on the Madimack website location for warranty information. Visit <https://madimack.com/au> & <https://madimack.com/nz>

### STATUTORY RIGHTS

The benefits to the consumer under this warranty are in addition to other rights and remedies of the consumer under the laws in relation to the goods and services to which the warranty relates.

Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You may be entitled to a replacement or refund for a major failure and compensation for any other loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

### LIMITED WARRANTY

Please visit [www.madimack.com.au](http://www.madimack.com.au) for all warranty terms and conditions

Madimack will, at its discretion, repair or replace any product proven to be defective during the warranty period for either materials or manufacture. Alternatively, Madimack will pay the cost of repair or replacement within 90 days of receiving the defective product, subject to unforeseen delays. This warranty is applicable for domestic installations only, is personal to the original purchaser, and does not transfer to any subsequent purchasers.

### EXCLUSIONS

To the extent permitted by law, Madimack excludes all statutory or implied conditions and warranties, as well as any other liability that may arise under statute or at law, including without limitation liability for breach of contract, negligence, or any other cause of action. The following exclusions apply:

- Incorrect installation or operation of the unit resulting from failure to follow the provided instructions.
- Damage caused due to misuse or any means other than a manufacturer defect
- Repairs or servicing performed by unauthorised dealers or service stations.
- Damage caused by an unauthorised service agent repair.
- Faults in the machine's operation caused by using non-specified accessories.
- General wear and tear of consumable items.

### LIMITATION OF LIABILITY

To the extent permitted by law, Madimack's liability under any condition or warranty that cannot be legally excluded in relation to the supply of goods and services is limited to one of the following options:

- Repairing the goods.
- Replacing the goods with equivalent products or services.
- Paying the cost of replacing the goods or providing equivalent products or services again. Paying the costs of repairing the goods.

### PROCEDURE FOR WARRANTY CLAIMS

#### Making a claim

The following steps should be taken when making a warranty claim with Madimack Pty Ltd.

1. Owners experiencing issues with their system are to contact Madimack Pty Ltd service departments online portal to and provide the requested information. [www.madimack.com.au](http://www.madimack.com.au)
2. A service agent will review the provided information and will contact you on the provided phone number to try and solve the issue.
3. If the issue cannot be dealt with over the phone, owners will be supplied with details of service agent in their area
4. Owners will need to contact and deal with service agents directly in relation to the booking in and payments of works related to the service or repair of their Madimack product.
5. Owners can claim reimbursement for costs of works covered under the product warranty when completed by an approved Madimack Service Agent. When making a claim, owners will need to provide the following documents.
  - Proof that you are the original system owner - original invoice showing owner name and property address.
  - Copy of invoice from an approved Madimack approved service agent.
  - For a major defect a copy of the report for major defects from approved Madimack Service agent.

In the event of a warranty claim, the faulty product should be returned to the place of purchase or, to an authorised service and warranty agent repair centre.

You are responsible for arranging the removal of the defective product and the installation of the repaired or replacement product. This includes all transportation costs and any applicable insurance fees associated with transporting the products to the supplier and the replaced or repaired product from the supplier.

#### All returns require Madimack's written approval and must be accompanied by either:

A service support ticket authorized by Customer Service Manager or Authorised Agent, or A "Return Goods Authorisation".

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