madimack

Powered by invermac TECHNOLOGY

inverCHLOR

Salt & Mineral Chlorinator



INSTALLATION MANUAL

WELCOME

This is the instruction manual for your Madimack's inverCHLOR Salt & Mineral Chlorinator. This guide will help you understand the operation and maintenance of your chlorinator, 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
100% Chlorine Production (salinity @ 1200ppm)	4g/hr	9g/hr	14g/hr	18g/hr
Recommended Salinity	3000ppm (3g/L)			
Salinity Operating Range	1200-6000ppm			
Power Supply (v)	220~240VAC 50/60Hz			
Power Supply (A)	1.5A			
Cell Amps @3000ppm	4A	7A	10.5A	14A
Max Input Power (w)	64W	104W	151W	197W
Cell Voltage	12vdc			
Water Flow Rate	80-400lpm			
Water Connections	40/50mm			
Water Temperature	5°C ~ 40°C			
Ambient Temperature	-7°C ~ 42°C			
Cell Housing Max Pressure	450kPa (4.5 Bar)			
Cell-Housing Material	PETG (Chemical resistant thermoplastic polymer)			
IP Rating	IP65			
Cell Lifetime	> 10,000 Hours			
Controller Dimensions (mm)	327 x 117 x 150			
Cell Size (mm)	63*52	90*66	130*66	160*66
Plates (Quantity)	10	10	10	10

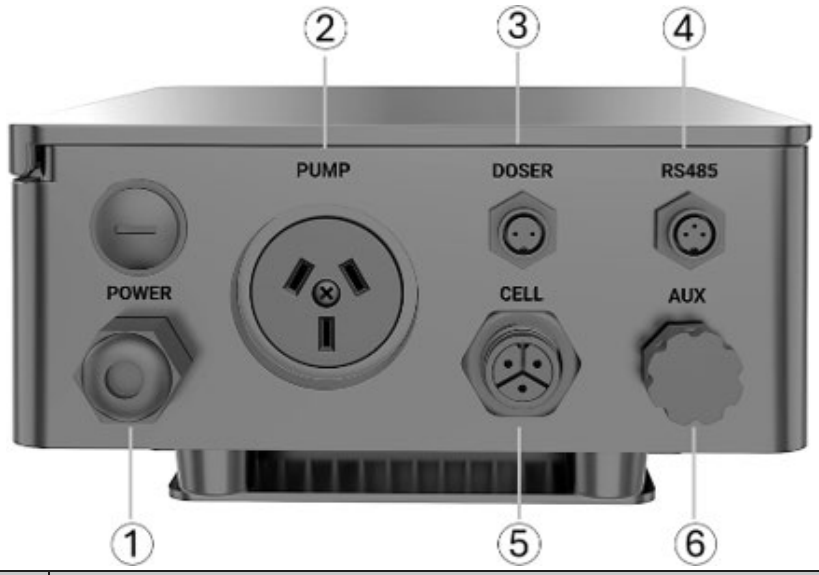
2.1 Identifying the inverCHLOR Model

Locate the Product Model Plate attached to the side panel of the inverCHLOR controller housing to identify your unit's SKU number:

- SKUs ending in -C (e.g., inverCHLOR10-C): All new features are pre-loaded and activated straight out of the box.
- SKUs not ending in -C (e.g., inverCHLOR10-A or inverCHLOR10): Require a Firmware Update via the mobile app to activate and unlock these new features.

NOTE: To connect your app and perform the firmware update, please refer to Section 8.10: WiFi Pairing and App Connection and Section 8.10.3 Over-the-Air (OTA) Firmware Upgrade.

3 | INVERCHLOR CONNECTIONS



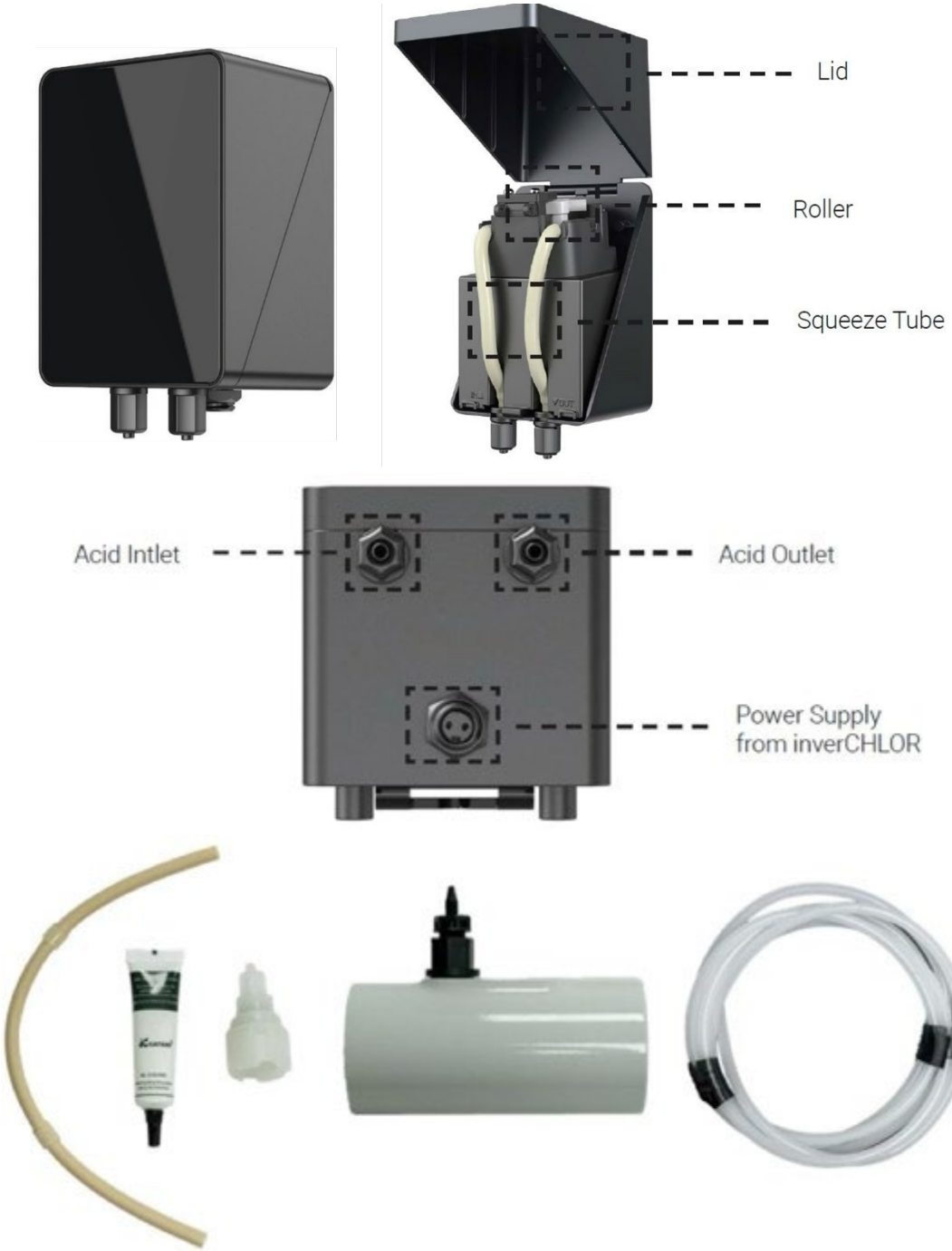
NO.	PORT NAME	DESCRIPTION FOR SKUS ENDING IN	
		(NO HYPHEN / -A/-B)	(-C)
1	Power Input	AC Power Connector (220~240V, 50/60Hz)	
2	Pump (Water Pump Socket)	Pump power outlet connection (max 9amps)	
3	Doser (Optional)	Connector for the optional pH Doser. Push in the plug end and hand tighten the locking nut.	
4	RS 485	1-A 2-B 3-GND	
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)	Heat Demand to run pump without chlorine production (Heater CMD)	Heat Demand to run pump without chlorine production (Heater CMD)
			Pool Cover * reduces the output % by 80%
			Automation Control * activates MANUAL ON

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

⚠ IMPORTANT: * ADDITIONAL AUX (HEATER) MODE ACTIVATION

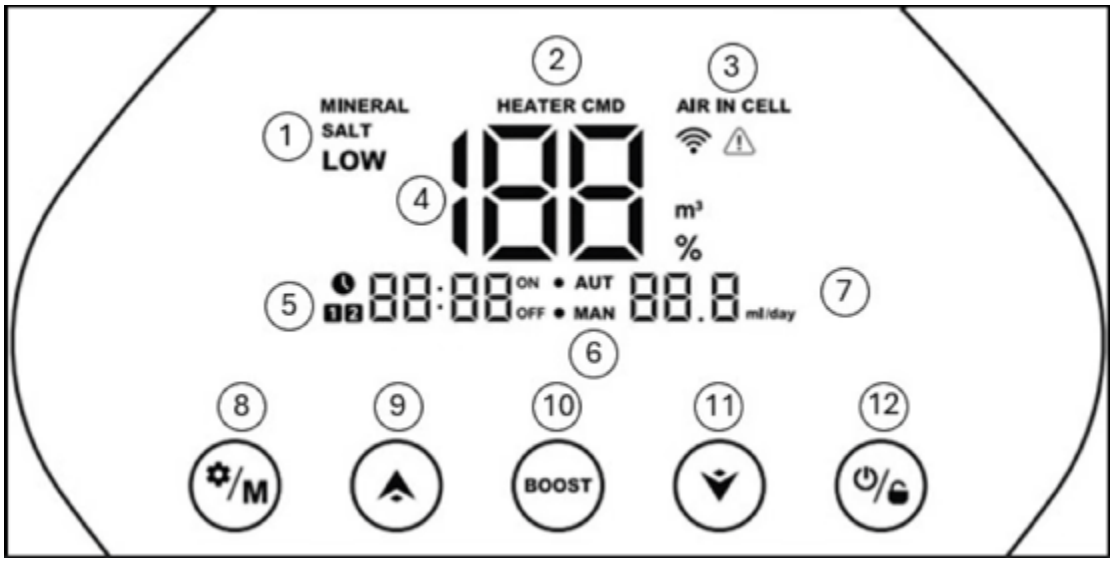
- The additional AUX Heater modes described in this section are pre-loaded and available out of the box for SKUs ending in -C on the Product Model Plate.
- For SKUs not ending in -C, an Over-the-Air (OTA) firmware update via the mobile app is required to activate these additional AUX modes. Please refer to Section 8.10: WiFi Pairing and App Connection and Section 8.10.3 Over-the-Air (OTA) Firmware Upgrade.

4 | pH DOSER (OPTIONAL)



(Left to Right: Spare squeeze tube, Lubricant, Suction filter, Injection Tee, 5m Dosing tube)

5 | CONTROLLER OPERATION



MARKED AREA	DESCRIPTION	ICON
1	• Pool Salt Type (mineral/salt) • Low Salt Alarm	MINERAL SALT LOW
2	Heater- pump call activated	HEATER CMD
3	• Air detected in cell • Wi-Fi connection status • Error notification	AIR IN CELL
4	• Chlorine Production% • Pool Volume m3	188 m³ %
5	• Timers Enabled • Time Display • Timer Active or Inactive	12 88:88 ON OFF
6	Chlorine Mode (Auto/Manual)	• AUT • MAN
7	Acid Dosing ml/day	88.8 ml/day
8	Settings/ Menu	
9	Adjust Up	
10	Boost Mode	BOOST
11	Adjust Down	
12	Power/ Lock Screen	

5.1 Controller Commands and Functions

COMMAND KEYS	FUNCTION
	• Power ON/OFF: Tap on home screen • Lock/Unlock: Hold for 3 seconds (The auto lock function will be activated after 1 minute without any operation)
	• Activate BOOST: Tap on for 24 hours constant operation • Exit BOOST: Hold for 3 seconds
	• Press: Main Settings (Mode/Dosing/Timers) • Hold for 3 seconds: Pool Settings (Clock/Volume/Salt type) • Save new setting: If setting is flashing, hold for 3 seconds (or automatically saves after 1 minute without operation)
	• Adjust Up: On the home screen will adjust chlorine output up in 1 % increments. (hold to increase speed) • When limit is reached soft beep will sound
	• Adjust Down: On the home screen will adjust chlorine output down in 1 % increments. (hold to increase speed) • When limit is reached soft beep will sound

5.2 Controller Shortcuts

FUNCTION	SHORTCUT
Access the Start-Up Menu	In the home screen, hold  for 3 seconds
Restore Factory Settings	Enter the menu , then hold for 3 seconds
Activate WiFi Pairing	Enter the menu , then hold  &  for 3 seconds
Save Settings & Return Home	While in any menu, hold  for 3 seconds to return to the home screen
Prime the pH DOSER for 15 seconds*	While in standby, hold  &  for 3 seconds
Measure the Salinity	In the home screen, hold  &  for 3 seconds

6 | INSTALLATION

6.1 Pool Water Preparation

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

6.2 Adding Salt Before Operation

1. Add the salt with the pump running and ensure it is fully dissolved before turning on the inverCHLOR cell output.
2. Ensure that the salinity is within the recommended range. The ideal level is 3000ppm.
3. Measure the salinity 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)

6.3 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 (4200ppm if using minerals)
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 (Calcium)	200 to 300 ppm
Metals	0 ppm
Algaecide	Use of algaecide is an option. Maintain copper <0.2ppm

6.4 Installing the inverCHLOR

WARNINGS

⚠ 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.

6.4.1 Mounting the inverCHLOR

1. Screw the mounting plate to the wall.
2. Hang the inverCHLOR by aligning the lugs on the back of the inverCHLOR with the lugs on the wall bracket and sliding down.

6.4.2 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.

6.4.3 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.







6.4.4 Plumbing Connections

1. The inverCHLOR is supplied with 40mm and 50mm unions to connect to the PVC plumbing.
2. Ensure a suitable solvent cement is used to glue the unions to the pipework.
3. 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.
4. Ensure the nuts are over the union tails before gluing them onto the pipework.

5. Once the solvent cement has set, place the cell housing onto the pipework and hand tighten the union nuts with the orings in place.

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.

6.5 Installing the pH Doser

The Madimack pH Doser is an automated algorithmic acid dosing pump designed to help maintain the pH levels in a chemically balanced pool.
The pH Doser will dose controlled amounts of diluted acid only during the operating timers of the inverCHLOR. The amount dosed is based on the setting on the inverCHLOR made by the installer or operator.

NOTE: It is the responsibility of the owner to continually monitor the operation and maintenance of this product to ensure safe operation and prevent damage to surrounding equipment or negative effects to the pool chemistry.

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) must 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.

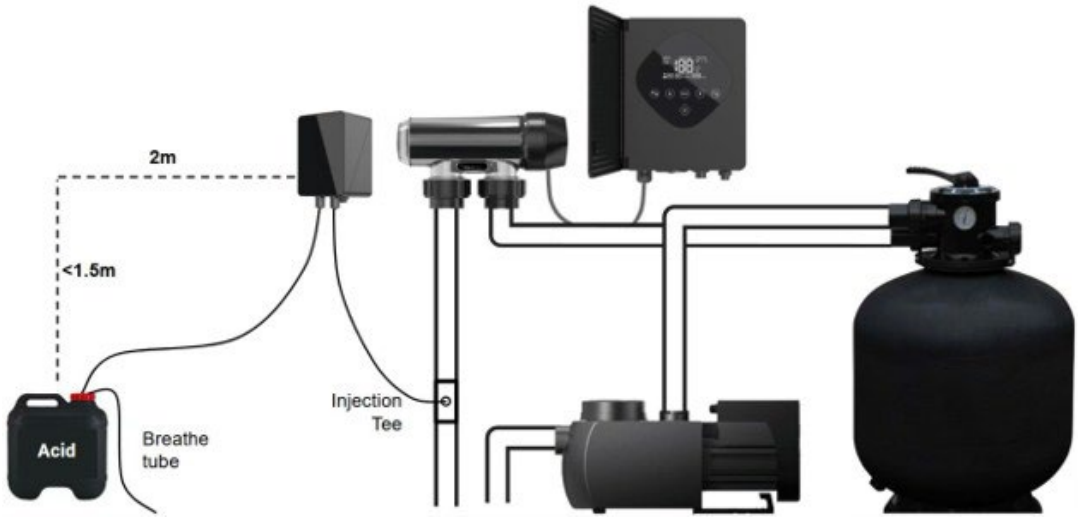
6.5.1 Location of diluted acid container and pH Doser

⚠ 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.

1. The pH Doser should be a minimum of 2m away from the acid drum but no higher than 1.5m above it.
2. 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.
3. 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.



6.5.2 Mounting the pH Doser

1. The pH Doser comes with a mounting bracket attached.
2. Fix one of the self-tapping screws into the desired location and hang the dosing pump using its wall bracket on the back
3. Connect the power supply cable to the port on the inverCHLOR marked 'DOSER'.

6.5.3 Connecting the pH Doser

1. The supplied tubing will be used for the suction and dosing lines.
2. Ensure the minimum distances are met using the diagram above.
3. The tubing should enter the chemical drum through an airtight hole created with a drill bit the same size as the dosing tube.
4. Install the suction filter at the end of the suction line then connect to the inlet side of the dosing pump securing had tight with the locking nut.
5. Connect the outlet side of the pH Doser to the injection Tee and hand tighten the locking nuts.
6. Connect the power supply cable to the port on the inverCHLOR marked 'DOSER'.

NOTE: The injection Tee contains a one-way valve to prevent pool water flowing backwards into the chemical drum.

6.5.4 Priming the pH Doser

⚠ Pool acid must be diluted prior to use at a minimum dilution ratio of 1:1 (acid to water).
⚠ Only ever add acid to water – DO NOT add water to acid.
- Pool acid is typically 32% strength Hydrochloric Acid.
- Dilution is to reduce the corrosiveness and extend the working life of the product.

⚠ Only use hydrochloric acid.
⚠ DO NOT use Sulphuric Acid, low-fume acid, or dry acid (Sodium Bisulphate) with the inverCHLOR.
- Sulphuric acid and dry acid introduce sulphates into the pool water. These chemicals can accumulate and form hard sulphate scale on pool surfaces and inside the chlorinator cell.
- Unlike calcium-carbonate scale, sulphate scale cannot be removed by normal acid cleaning. Sulphate scale can restrict water flow, reduce chlorinator performance and shorten cell service life.
- Damage caused by sulphate build-up may develop gradually and will void the product warranty.

To dilute, add 5L pool acid, to 5L of tap water. This should be done in a container suitable for use with pool acid.

Test the connections by running a priming cycle.

1. Ensure the chemical drum contains diluted acid 1:1.
2. Turn the inverCHLOR off with its power button.
3. Hold UP & DOWN arrows for 3 seconds to start the pH Doser for 15 seconds. You may need to run this again depending on the length of the tubing to check connections for leaks.

Refer to Section 8 Operation to understand setting the dosing amounts.

7 | FIRST TIME 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
    - Timer 1 ON & OFF

- Timer 2 ON & OFF

3. Set the pool volume
4. Select the salt type (salt/ mineral)

8 | OPERATION (USING THE INVERCHLOR)

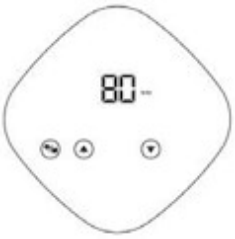
8.1 Setting the 24-hour clock



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

8.2 Pool Volume Setting

NOTE: $1m^3$ = 1000L



1. Hold SETTINGS for 3 seconds.
2. Press SETTINGS two times to skip past the clock settings.
   The pool size value is now blinking and can be adjust from 5 to $150m^3$.
3. Tap the UP or DOWN arrows to adjust the pool size value in increments of $5m^3$.
   Tip: Holding the button to accelerate the selection speed.
4. Hold SETTINGS for 3 secs to save the new volume or press SETTINGS to continue to set the salt type.

8.3 Salt Type Selection

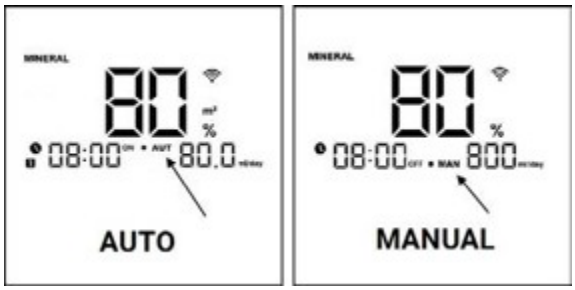


1. Hold SETTINGS for 3 seconds.
2. Press SETTINGS three times to skip past the clock and volume settings.
3. When the SALT icon is blinking, it can be changed to MINERAL or SALT by tapping the UP or DOWN arrow.
4. Tap SETTINGS to complete the settings.

8.4 Setting the Mode (AUTO / MANUAL)

1. The chlorinator can be configured to 2 different Chlorine production modes. These are selected by pressing the SETTINGS button then tapping the UP or DOWN arrow.

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



8.5 Acid Dosing (Optional pH Doser required)

8.5.1 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 Madimack pH Doser, you can either set the exact daily dosage amount or use the Smart Algorithm (ALG) 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 6000ml/day. It can be set in 50ml increments up to 999mls then 100ml increments from 1L to 6L (2.4 = 2400ml).

8.5.2 Selecting Standard or Smart Algorithm (ALG)

Smart ALG mode is available on firmware V1.2.0 and later. The firmware version is shown on the small display when first powering on the inverCHLOR.

- Select Standard dosing when the required daily acid volume is known.
- Select Smart ALG to allow automatic dosing when the daily amount is unknown.

8.5.3 Setting the Standard Algorithm Acid Dosage Volume

IMPORTANT: This is a guide only. The required amount is affected by many variables.
TIP: During the initial startup period, have the water tested frequently (i.e. daily) and make small adjustments every 2-3 days, until the pH level remains balanced.

1. Access the acid dosing volume setting. Press SETTINGS to show AUTO/ MAN.
2. Press SETTINGS again to show the ml/day dosing amount flashing.
3. The amount can be adjusted from 0ml to 1.5L in increments of 50ml, by tapping or holding UP or DOWN arrow.
4. Hold the SETTINGS button for 3 secs to confirm.

8.5.4 Average Daily dose of diluted acid by pool volume

Pool Volume (L)	Daily Dose 32% Acid Diluted 1:1
10,000	100ml (50ml acid)
20,000	200ml (100ml acid)
30,000	300ml (150ml acid)
40,000	400ml (200ml acid)
50,000	500ml (250ml acid)

Pool Volume (L)	Daily Dose 32% Acid Diluted 1:1
60,000	600ml (300ml acid)
70,000	700ml (350ml acid)
80,000	800ml (400ml acid)
90,000	900ml (450ml acid)
100,000	1000ml (500ml acid)

NOTE: *Figures based on average summer conditions. Chlorine output will affect acid demand*

8.5.5 Smart Algorithm (ALG)

IMPORTANT: The creation of chlorine in the cell plates naturally increases the pH of the pool. The aim of the Smart ALG is to offset the pH increase caused by chlorine production in the cell plates.

NOTE: There are many variables that may affect the pH level of the water. The ALG offset that reduces or increases the calculated dose can be used to fine tune for these variables. However, ALG is not guaranteed to be suitable for all pools.

Activating Smart Dosing Algorithm:

1. Verify that the dilution ratio is 1:1 Acid to Water. This creates a 16% strength HCL solution.
2. Press SETTINGS to select AUTO or MANUAL operating mode.
3. Use the DOWN arrow to go past 0ml/day and ALG will appear.
4. Press SETTINGS to confirm and ALG 0 will appear.
5. Use the UP & DOWN arrows to set the Offset required.
    - UP will increase the calculated dose amount
    - DOWN will lower the calculated dose amount
    - There are 9 levels of offset. Each level has a10% gain or reduction from the previous offset
      Example: Offset5 = 50% increase from standard ALG

When on 0ml press DOWN



Set the Offset variation



8.6 Setting the AUTO Mode Timers

1. To access the timer settings. Press SETTINGS to show AUTO/ MANUAL.
2. Ensure AUTO is selected and press SETTINGS again to show the dosing amount flashing.
3. Press SETTINGS again to show the ON and 1.
4. Set the starting hour of the Timer 1 using UP and DOWN.
5. Save the time by tapping SETTINGS, then set and save the minutes in the same way.
6. Press SETTINGS to save the Timer 1 ON time.
7. When ON disappears and OFF lights up, set the Timer 1 end time adjusting the hours and minutes in the same way.
8. Press SETTINGS to save the Timer 1 OFF time.
9. When 2 lights up, repeat steps 4-8 for Timer 2.

NOTE: Do not overlap the timers. If timers are overlapped, it will not save the timer. One timer can be used by not setting the second timer.

8.7 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.



1. To turn on boost mode, tap BOOST with the screen unlocked.
2. 100% output will display with a countdown timer starting at 23:59.
3. The inverCHLOR will run at 100% chlorine output for the duration of the timer also providing power to the filter pump.
4. 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.

8.8 AUX Input Mode

NOTE: Firmware before V1.2.0 has a dedicated Heat Demand mode using the AUX port. From V1.2.0 and newer, there are three modes for the AUX input. Only one mode is active at a time and can be changed in the maintenance menu.

The three modes:

1. **Heat Demand Mode -** The inverCHLOR can act as a heat demand controller for the connected heater and filter pump.
   - This allows the heat pump timers to start the filter pump without producing chlorine, allowing 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.

2. **Pool Cover**
   A dry contact output from an automatic pool cover can be connected to signal the inverCHLOR that the pool is covered and to reduce the setting of chlorine production by 80%. This prevents over chlorination when using a pool cover.

3. **Automation Control**
   Automation controllers can be connected via dry contact to activate the inverCHLOR in MANUAL mode only. This allows the automation system to be the primary control of the chlorine production.

8.9 AUX Input - Connecting the Heater Command Cable

1) You will receive this AUX cable with the Madimack inverCHLOR. 	2) Connect the plug & cable to the AUX input on the bottom of the inverCHLOR. 	3) The other end of the cable will connect to either • the Quick connect socket on the heater labelled 'Pump Output ELV' • a dry contact output on a pool cover, or • the heater control cable for an automation system.

Diagram of Status Relationship:
This table represents when the Pool pump connected to the inverCHLOR will be powered ON

inverCHLOR Status	Heat Pump Status	Water Pump Status
OFF	OFF	OFF
OFF	ON	ON
ON	OFF	ON
ON	ON	ON

8.10 Wi-Fi Pairing and App Connection

8.10.1 Pre-Installation and Connection Checklist

- Network Band: Connect your smart device to a 2.4 GHz Wi-Fi network (5 GHz networks are not supported).
- Bluetooth: Enable Bluetooth on your smart device to facilitate automatic device discovery during pairing.
- App Identification: Verify your unit's SKU number to select the correct app.
  NOTE: SKU number is found on the side of your inverCHLOR.
  - SKUs ending in a hyphen and a letter (e.g. -A or -C) - Download the Madimack App.
  - SKUs not ending in a hyphen and a letter - Download the inverGO App.
- Download App: Scan the QR code on your Quick Start card or search for the designated app in the Apple App Store or Google Play.

8.10.2 Controller Wi-Fi Pairing Procedure

1. Unlock the inverCHLOR controller display.
2. Enter pairing mode for the inverCHLOR.
   a. Tap SETTINGS on the inverCHLOR home screen.
   b. Hold SETTINGS and UP for 3 seconds until the Wi-Fi indicator on the screen begins flashing.
      - Display Indicator: During pairing, the controller display shows a counterclockwise segment pattern.
      - Cancellation: To exit or cancel network connection mode at any point, press and hold the SETTINGS again.
3. Pair using your designated app.
   a. Open your designated app.
   b. Sign into your account.
   c. Tap Add Device or the + icon.
   An image of the Madimack inverCHLOR screen will appear with an ADD button.
   d. Press the ADD button then select the Wi-Fi network and enter your network password.
   e. Select the product to add to the app.
4. Verify connection status.
   - If the Wi-Fi icon is illuminated continuously, Setup is complete.
   - If the EE error icon appears, Setup failed.
   Reset controller network settings, and retry steps 1-3. Ensure 2.4 GHz network is selected.

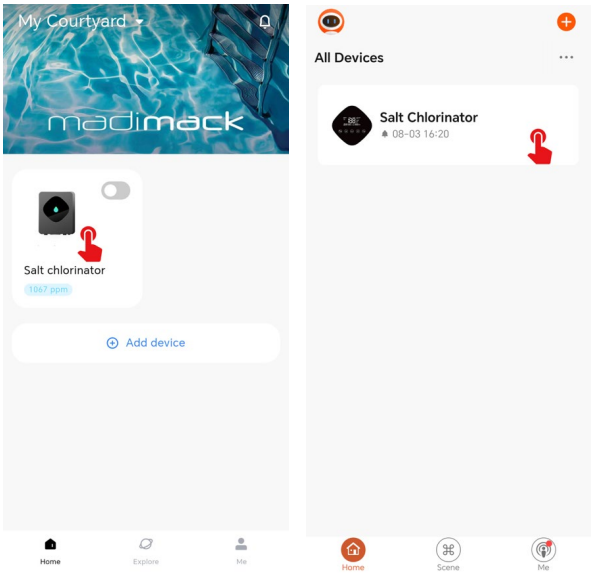
8.10.3 Over-the-Air (OTA) Firmware Upgrade

Perform regular firmware updates to ensure your inverCHLOR operates with the latest features, performance improvements, and security enhancements.

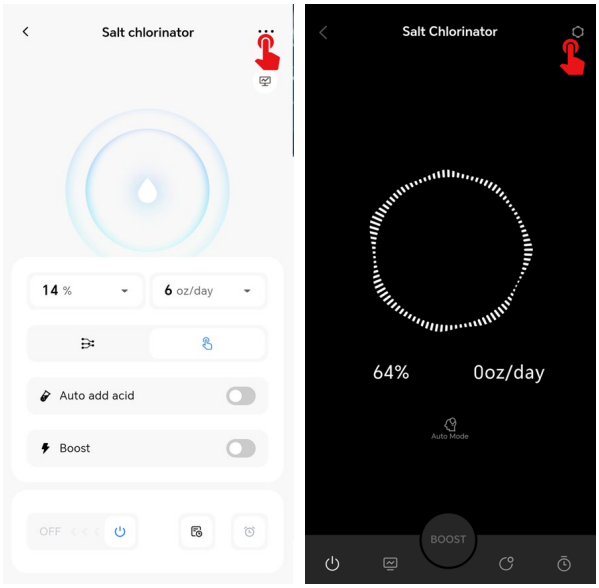


IMPORTANT SAFETY NOTICE: Maintain continuous power to the inverCHLOR unit during the upgrade process. Do not force close the mobile application or disconnect Bluetooth or Wi-Fi connection while an update is installing.

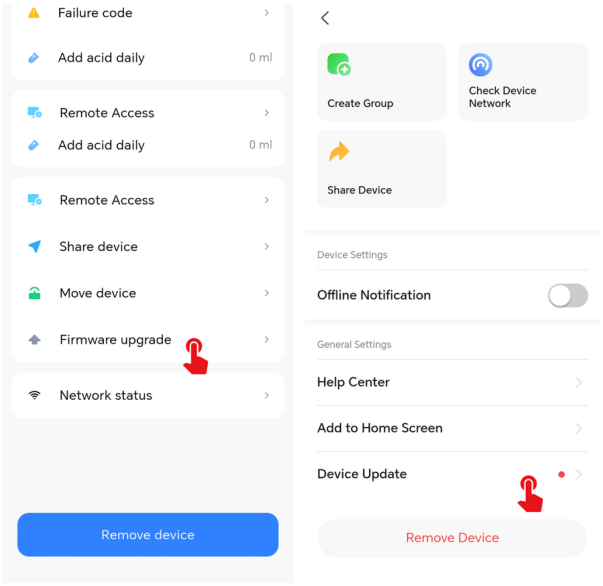
1. Confirm your inverCHLOR is online in your designated app.
2. Tap the device card to enter the main control screen.



3. Tap the icon located in the top-right corner of the screen to enter Device details.



4. Upgrade the firmware. The app will automatically check for available firmware updates on the server. If a new firmware version is detected and your app is:
   - The Madimack App, tap Firmware upgrade at the lower half of the screen.
   - The inverGO App, tap Device Update at the bottom of the screen.



Keep your smart device within close proximity to the inverCHLOR until the installation reaches 100% and the device restarts.

9 | MAINTENANCE

9.1 Restore Factory Settings

1. Tap SETTINGS to enter the menu screen.
2. Hold the UP and DOWN arrow buttons for 3 seconds.
   The loading icon [ ] will light up then the inverCHLOR will reset, and the first-time startup process will begin.

9.2 Power-down Memory

If there is an 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.

9.3 Adding Salt or Minerals

⚠ 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 process with your pool builder.

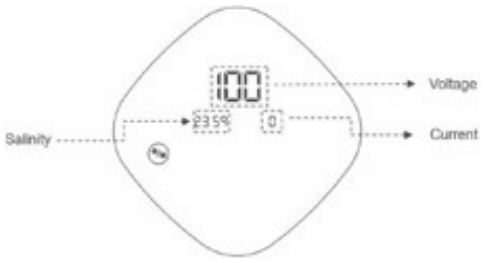
1. Calculate the volume of the swimming pool and add 3-5 Kg of salt per 1000L.
2. The ideal salinity range is 3000-5000ppm.
3. Make sure the inverCHLOR is disconnected from power during the salt adding process.
4. Turn on the filtration system for at least 24 hours, allowing the salt to dissolve completely.
5. The salt dissolving process must be accelerated using a pool broom.
6. 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.

9.4 Measuring Salinity Reading

With the inverCHLOR on, enter the 'Monitoring' screen by holding SETTINGS and BOOST for 3 seconds.

- Upon initial access to the interface, an automatic salinity measurement is conducted.
- Salinity measurement: 20 minutes per time.



9.5 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. When backwashing, adjust the chlorine output to 0% to avoid triggering the air in cell sensor. Remember to return it to the original setting once the backwash is complete.

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.

9.6 Cell Maintenance

9.6.1 Cleaning the Cell (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.

9.6.2 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.

9.7 Low Chlorine Protection

- Overheat protection will be activated when the temperature inside the main controller is higher or equal to 70°C.
- Overheat protection will be lifted when the temperature drops below 68°C.

Current Chlorine Output	Low-Chlorine (Initial time)	Subsequent Less-Chlorine
0~20%	——	——
21~40%	5%	Determined at every 2-minute: 1) Decreasing by 3% for every 1°C. 2) Minimum down to 20%.
41~80%	15%	Determined at every 2-minute: 1) Decreasing by 9% for every 1°C. 2) Minimum down to 20%.
81~100%	20%	Determined at every 2-minute: 1) Decreasing by 12% for every 1°C. 2) Minimum down to 20%.

9.8 pH Doser Maintenance

⚠ Pool acid 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.

PERIOD	MAINTENANCE
WEEKLY	• Check the level in the acid drum • Check for leaks
6 MONTHS	Lubricate the squeeze tube with a silicone-based lubricant i.e. Oring lubricant
YEARLY	Replace the squeeze tube

9.9 Error Codes

Pool acid 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.

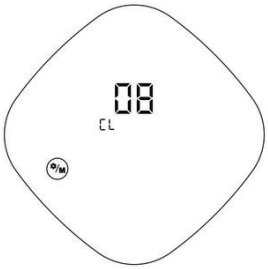
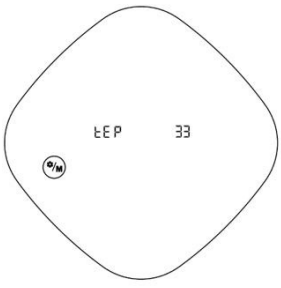
Error Code	Description	Logic	Action
E1	Abnormal Electrolysis	a. Electrolytic output power greater than 10% b. Voltage less than 0.8V or current less than 0.3A	A. E1 occurred B. Stop electrolysis: Restart electrolysis after 30 minutes. If abnormal electrolysis is detected 3 times in a row, electrolysis function cannot be restarted again.
E3	Abnormal water level	After the air switch indicator is triggered and continues for 120s	A. E3 occurred B. Stop the Filter Pump
E4	Over Temperature (Power pack)	Temperature >75°C (Inside)	A. E4 occurred B. Stop electrolysis
81~100%	20%	Determined at every 2-minute: 1) Decreasing by 12% for every 1°C. 2) Minimum down to 20%.	Determined at every 2-minute: 1) Decreasing by 3% for every 1°C. 2) Minimum down to 20%.

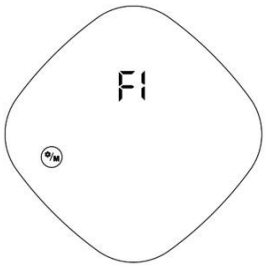
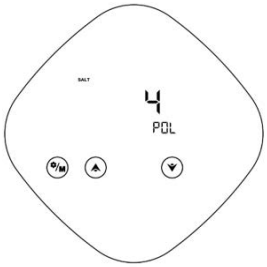
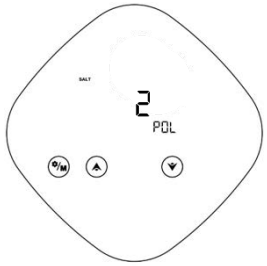
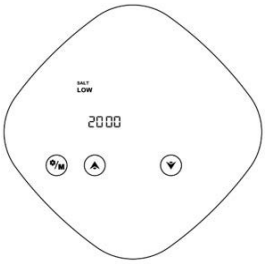
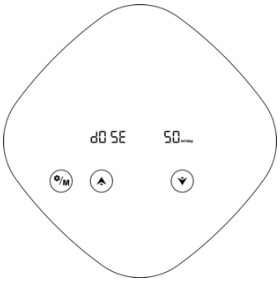
9.10 Display Indicators

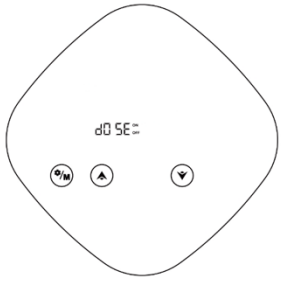
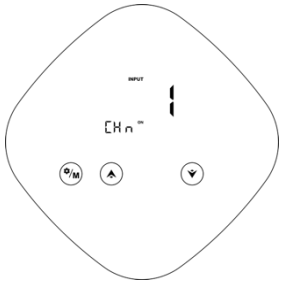
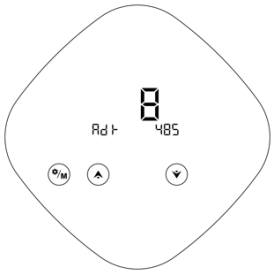
Description	Logic	Action
A3 – AIR IN CELL	Read the status of the air switch for 15 seconds: If the air switch is in contact with air for 6 seconds or more before 15s of the current time, it is determined that air has entered the cell.	A. Stop electrolysis ⚠ **AIR IN CELL**
A2 – LOW SALT	When the salinity is detected to be less than 2500ppm for 30 seconds, it is determined to be Low Salt. (salinity alarm is adjustable in maintenance mode)	**LOW**
HEATER CMD	Read the on/off status of the heater for 15 seconds: If the AUX input is active for 6 seconds or more, it is determined that the Input is in ON status.	**HEATER CMD**

10 | MAINTENANCE MODE – AUTHORISED TECHNICIANS ONLY

1. Press POWER to turn the controller OFF.
2. To enter 'Maintenance Mode' hold UP and POWER for 3 seconds.
3. When done - hold SETTINGS for 3s to return the main Menu.

No.	Function	Photo	Remark
1	Full Screen Display		Test Illumination Screen
2	Cell Production		Test the cell output with On/Off Option
3	Model of Cell Plates		08/16/26/36 =inverCHLOR Models 10/20/30/40
4	Cell Life Span Status		Operating Hour of Cell plates
5	Internal Temperature display		Display the real-time temperature °C of Power/Control pack

No.	Function	Photo	Remark
6	Mode Display		F1 mode - Electrolysis and acid dosing are available FE mode - Demo, Electrolysis is available. FF mode - Electrolysis is unavailable
7	Polarity Reverse Setting (Salt)		Range: 1-10 hrs Default: 4 hrs
8	Polarity Reverse Setting (Mineral)		Range: 1-10 hrs Default: 2 hrs
9	Low Salt Alarm Setting		Range: 1500-3000 ppm, Default: 2000 ppm
10	Single Acid Dose Test		Range: 50-1000ml, in increments of 50ml. Default: 50 ml - Set the volume. - Dosing will begin after a 60 second delay. - Run the pump for 1min to 'flush' the pipework of acid.

No.	Function	Photo	Remark
11	Dosing Pump Testing/Priming		ON: Dosing Pump is ON OFF: Dosing Pump is OFF
12	Eternal Device command Type		1: Heat pump command 2: Pool cover command 3: External control command Default: 1: Heat pump command
13	RS485 communication address setting		Range from: 1-28 Default: 8

madimack

Madimack Manufacturer's Warranty

This is a warranty against defects, given in addition to your rights under the Australian Consumer Law.

Warrantor: MADIMACK PTY LIMITED, ABN 20 602 694 520 — Lvl 1/50 Berry St, North Sydney NSW 2060. Phone: 1300 899 737. Email: support@madimack.com.

Coverage area: This warranty applies only to genuine Madimack products purchased new in Australia and installed in Australia. This warranty applies to residential installations and commercial installations where applicable; see the commercial conditions in the Warranty Schedule.

Consumer Guarantees (Australian Consumer Law)

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage.

You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits given to you by this warranty are in addition to your other rights and remedies under a law in relation to the goods to which this warranty relates. Nothing in this warranty excludes, restricts or modifies those rights and remedies, and they continue to apply after the warranty period ends or if this warranty does not apply.

What's Covered

This warranty covers components that fail because of a manufacturing defect that appears within the warranty period.

Where the law or the product manual requires it, installation, winterisation and repairs must be done by suitably qualified and licensed person(s). Routine owner maintenance, such as cleaning strainer baskets and filters, inspecting and lubricating accessible o-rings, inspecting external plumbing fittings, and maintaining water chemistry within the recommended ranges, may be performed by the owner. Owner maintenance does not include opening cabinets, access panels or electrical control boxes, or working on the sealed refrigeration circuit. That work must be done by suitably qualified and licensed person(s).

Suitably qualified and licensed person(s) — Defined as person(s) who hold any licence, registration or certification that the law of the state or territory where the product is installed requires for that work (for example, electrical or plumbing work).

Typical coverage includes:

- **Pool pumps:** Motor, housing, drivers, shaft seals, or internal components that fail prematurely due to manufacturing defects.
- **Filters:** Filter tank cracks or structural failure due to a manufacturing defect. Filter media, cartridges, and grids are wear items — see Consumable & Wear Items below.
- **Heat pumps:** Heat exchangers, compressors, controls, or other components that fail due to a manufacturing defect.
- **Pool sanitisers:** Controller, cell, and other components that fail due to a manufacturing defect.
- **Robotic pool cleaners:** Motors, drive systems, and electronic components that fail due to a manufacturing defect.

- **Hot water heat pumps:** Electrics, compressors, tanks, or other components that fail due to a manufacturing defect.
- **Chillers:** Heat exchangers, compressors, or other components that fail due to a manufacturing defect.
- **Dehumidifiers:** Heat exchangers, compressors, or other components that fail due to a manufacturing defect.
- **Mowers:** Components that fail due to a manufacturing defect, and consumables for the period shown in the Warranty Schedule.
- **Pool accessories:** Components that fail due to a manufacturing defect.

Warranty periods: Warranty periods for parts and labour vary by product. See the Warranty Schedule (Appendix) for the exact period that applies to your product. For example, if the Warranty Schedule shows 7 years for all parts and 1 year for on-site labour, the parts warranty runs for 7 years and the on-site labour warranty runs for the first year. The warranty periods in the Warranty Schedule are Madimack's express warranty periods. They are separate from, and in addition to, your rights under the Australian Consumer Law.

Warranty Remedy: If a covered defect appears within the warranty period, Madimack will, at its option, repair or replace the defective part or component. If a defect cannot be repaired, Madimack may replace the product with the same or an equivalent model. Repair or replacement of a part, or replacement of the product, does not extend or restart the original warranty period; a replacement carries the balance of the original period. This does not limit your rights under the Australian Consumer Law.

Service calls: There is no charge for a service call to repair a covered defect. If you request a service call and the technician's written inspection report finds no fault with the product, or finds that the problem was caused by something other than a defect in the product (for example, misuse, installation or water chemistry), a call-out fee of $220 AUD, including GST, applies and is payable directly to the technician. The fee will be disclosed to you, and you must accept it, before the visit is booked. You may request a copy of the report. This does not limit your rights under the Australian Consumer Law.

Travel to remote locations: There is no charge for travel for a service visit to repair a covered defect. If you request a service visit that is not for a defect or failure in the product, and the product is installed more than 30 km from the nearest authorised repair agent listed at madimack.com/au/support/service-finder when the visit is booked, Madimack may charge $2 AUD, including GST, per kilometre for the one-way distance beyond 30 km. Madimack will tell you the cost before the visit is booked, and you must accept it before the visit goes ahead. This does not limit your rights under the Australian Consumer Law.

Warranty begins on the date of purchase, and proof of purchase date is required to make a claim.

Product registration is optional. It helps with proof of purchase and faster claims, but it is not a condition of this warranty.

Spare parts and repair: Madimack will take reasonable action to ensure that facilities for the repair of the product, and spare parts for it, are reasonably available for a reasonable period after the product is supplied, as required by the Australian Consumer Law.

Consumable & Wear Items

Consumable and wear items — including o-rings, seals, gaskets, basket strainers, pump mechanical seals, filter cartridges and elements, and cleaner wear parts — are not covered under this warranty except where they show a defect in materials or workmanship at the time of installation. Routine

inspection, lubrication, and replacement of these items is the owner's responsibility as part of normal maintenance. This exclusion applies to this warranty only and does not limit your rights under the Australian Consumer Law. Where the Warranty Schedule shows a warranty period for consumables, that period applies.

Other Terms

This is the only warranty against defects given by Madimack, other than any separate written guarantee that Madimack expressly gives you. No dealer, distributor, installer, or other party is authorised to give any other warranty against defects on Madimack's behalf.

Governing Law: This warranty is governed by the laws of the state or territory of Australia in which the product was purchased, together with applicable Commonwealth law, including the Australian Consumer Law.

Who Is Covered

This warranty extends only to the original retail purchaser, is not transferable to any subsequent owner, and applies only at the product's original installation address.

What's Not Covered

This warranty does not cover defects or damage caused by any of the following. Madimack may decline a claim on these grounds only where the listed cause is shown to have caused the defect or damage. If this warranty does not apply to a claim, your rights under the Australian Consumer Law are not affected:

Installation & Sizing

- Improper installation
- Improper sizing
- Damage occurring during transit, delivery, or installation, prior to startup

Water Chemistry & Environment

- Freezing
- Improper pool water chemistry — corrosion, erosion, scaling, calcification, or other conditions caused by unbalanced water chemistry (for example, corrosion or scaling of cell plates or the heat exchanger)
- Recommended ranges: pH 7.2–7.8 (ideal 7.4–7.6); Total Alkalinity 80–120 ppm (100–150 ppm for vinyl pools); Calcium Hardness 200–400 ppm; Cyanuric Acid 0–100 ppm; Total Dissolved Solids under 1,500 ppm (excluding salt).
- Corrosion or damage to the product caused by a corrosive or contaminated environment (for example, salt air, chemicals stored near the product, debris, vegetation or blocked airflow)

Use, Maintenance & Modifications

- Unauthorised modifications
- Normal wear and tear
- Failure to maintain the equipment
- Damage caused by the use of parts or accessories not authorised by Madimack, or by service performed by anyone other than suitably qualified and licensed person(s) where the law or the product manual requires one

- Damage caused by unauthorised changes to the product's software or firmware
- Operating the product outside its published flow rate, voltage, or environmental specifications
- Faults in other equipment connected to the product (for example, the pool pump, plumbing or power supply)

Accidents & Force Majeure

- Accidental damage, fire, storms, or other acts of God
- Damage from power surges or electrical problems
- Damage caused by running equipment without adequate water flow
- Physical damage, abuse, or negligence
- Damage caused by animals, insects or vermin

Cosmetic Condition

- Product discolouration or other cosmetic or superficial condition, regardless of cause, is not covered by this warranty

How to Make a Warranty Claim

To be entitled to claim: the product must be a genuine Madimack product purchased new in Australia and installed in Australia (and, where the law or the product manual requires installation by suitably qualified and licensed person(s), installed by such a person), its serial number label must be present and legible, the defect must appear within the warranty period, and you must provide the original proof of purchase showing the date of purchase, the product model and the serial number.

Heat pump servicing: Madimack recommends that a heat pump is serviced at least once every 12 months from the date of purchase by suitably qualified and licensed person(s), at your cost, and that you keep the service invoice or service report. If a service is missed, or you cannot provide the service records on request, Madimack may decline claims for defects of a kind that servicing is designed to prevent (for example blockage, corrosion, scaling or contamination of coils, heat exchangers, fans or filters). This does not affect your rights under the Australian Consumer Law.

Proof of installation: where installation by suitably qualified and licensed person(s) is required, proof that the product was installed by such a person: their business name and contact details, their licence or registration number where state, territory or local law requires one, the installation date and the installation invoice or, if the invoice is unavailable, other reasonable proof of installation.

On request, within a reasonable time, you must provide:

- evidence that the installation meets the manual supplied at purchase;
- water chemistry test records, maintenance records and, for heat pumps, annual service records for the period before the fault;
- photos or video of the fault and the serial label;
- access for inspection; and
- the failed part, with a supplied GRA number.

Notify Madimack within a reasonable time after you find the fault, and do not repair, modify or dismantle the product before contacting Madimack. A claim will not be approved until the information is provided. If Madimack asks for it in writing and it is not provided within 30 days of the request, Madimack may decline the claim under this warranty. This does not affect your rights under the Australian Consumer Law.

Safe access: You must make sure the product is in a safe location where it can be inspected, tested and repaired. Madimack and its authorised repair agents may postpone or decline to attend, or may stop work on, a service visit where the site is unsafe (for example, because of unrestrained pets, confined spaces, work at heights, or other environmental hazards). If the product cannot be safely inspected or tested on site, you may be asked to return it to Madimack's testing warehouse, and Madimack may decline the claim until it can be inspected. Madimack covers the cost of freight for returning the product only if Madimack has approved the return in advance. This does not affect your rights under the Australian Consumer Law.

To make a claim: submit a claim through our Support Request page at madimack.com/au/support/servicerequest/productcategory. You can also contact Madimack on 1300 899 737 or support@madimack.com. Your installing dealer may help you lodge a claim, but Madimack assesses all claims.

Consumer guarantee claims: If a product does not meet a consumer guarantee under the Australian Consumer Law, you can contact the retailer you bought it from, or contact Madimack directly using the details above.

What Madimack will do: Madimack will assess your claim and, where the defect is covered, repair or replace the defective part or component as set out under Warranty Remedy. Where a service visit is needed, Madimack will arrange for an authorised repair agent, an independent business engaged by Madimack, to attend. Madimack remains responsible for its obligations under this warranty. If Madimack declines a claim, it will tell you why in writing and give you a copy of the technician's report on request.

A Goods Return Authorisation (GRA) number is required before returning any product or part for warranty evaluation.

Claim Expenses: Under this warranty, Madimack bears the cost of replacement parts; the cost of collecting any part or product that Madimack has approved or asked to be returned (Madimack will arrange collection); and, during the on-site labour period shown for your product in the Warranty Schedule, the labour and the standard service call for a covered defect. Refrigerant is covered where it is needed to repair a covered defect; refrigerant lost for any other reason is not covered. Other consumables are covered only as set out under Consumable & Wear Items. The cost of access to the product for repair, replacement or inspection is not covered by this warranty. This includes moving or lifting the product to an accessible location (for example, a product installed on a roof) and the cost of cranes, scaffolding, elevated work platforms, or removing fences, walls or other obstacles. You can claim the reasonable expenses you incur in making a claim that Madimack is to bear under this warranty by emailing your receipts to support@madimack.com within 30 days of incurring them. Madimack does not pay expenses it has not approved in advance, except where the Australian Consumer Law requires. Madimack may accept later claims at its discretion. This does not limit your rights under the Australian Consumer Law, including your right to have a failure remedied at no cost to you and to be reimbursed reasonable costs where that law provides.

This warranty statement is effective from 1 October 2026. This warranty statement applies to all Madimack products purchased in Australia. If you purchased your product before that date, you are also entitled to the benefit of the warranty in force when you purchased it, and in each case the term that gives you the greater benefit applies. The version supplied with your product, or posted at madimack.com/au at the time of your purchase, is the version in force when you purchased it.

Appendix — Warranty Schedule

Pool Heat Pumps

Heat Pump Model	Heat Exchanger*	Compressor	All Parts	On-Site Labour
InverELITE V4	25 years	15 years	7 years	1 year

InverELITE V3	25 years	10 years	5 years	1 year
ELITE Silent (V2)	25 years	5 years	4 years	1 year
ECO series (pre Jan 2022)	25 years	3 years	2 years	1 year
InverECO	25 years	5 years	3 years	1 year
InverECO Plus	25 years	5 years	3 years	1 year
InverECLIPSE	25 years	5 years	4 years	1 year
InverECLIPSE Plus	25 years	5 years	4 years	1 year
InverELITE Max Series (commercial*)	25 years	5 years	2 years	1 year

*Residential heat pumps installed in public or commercial settings will have their warranty periods reduced to align with the commercial heat pump warranty terms.

Pool Pumps

Pool Pump Model	Warranty	On-Site Labour
InverFLOW Eco	3 years	1 year
InverFLOW Pro	4 years	1 year
InverFLOW Ultra	4 years	1 year
InverFLOW Plus	5 years	5 years
EFlow	4 years	1 year

Pool Sanitisers

Model	Controller & Cell
InverCHLOR	4 years* (*or 10,000 hours, whichever comes first)
pH Doser	1 year

Robotic Pool Cleaners

Robotic Pool Cleaner Model	Warranty
Madimack GT Freedom	3 years
Madimack GT Freedom Plus	3 years
Madimack GT560	2 years

Filters

Model	Tank	Parts	On-Site Labour
eliteCLEAR Media Filter	10 years	1 year	1 year
eliteCLEAR Cartridge Filter	3 years	1 year	1 year

Hot Water Heat Pumps

Model	Electrics	Compressor	Tank	On-Site Labour
resiSTEAM	5 years	3 years	5 years	1 year
resiSTEAM Pro	5 years	3 years	5 years	1 year

Chillers

Unit Model	Heat Exchanger	Compressor	Parts	On-Site Labour
Aquaciat LD	2 years	2 years	2 years	1 year
Aquaciat Power ST & HE LD	2 years	2 years	2 years	1 year

Powerciat LX	2 years	2 years	2 years	1 year

Dehumidifiers

Unit Model	Heat Exchanger	Compressor	Parts	On-Site Labour
Junior BCP	2 years	2 years	2 years	1 year
Aquair BCP	2 years	2 years	2 years	1 year
Air Master BCP	2 years	2 years	2 years	1 year
Aquair Premium BCP	2 years	2 years	2 years	1 year

Mowers

Model	Warranty
Madimack MOWER 750	2 years + 1 year consumables
Madimack MOWER 1500	3 years + 1 year consumables

Pool Accessories

Model	Warranty
Inverter Plus 1100	1 year
Inverter Plus 1500	1 year
Single pump controller (MJ Box)	2 years

Madimack warranty is from date of purchase for service and warranty claims.