Salt Chlorinator

Operating Instructions

Fairland

Easy Salt

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1 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 pool owner / custodian, 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 original Fairland parts.

⚠ WARNING: Electrical Hazard

1. This appliance is intended to be used on swimming pools only.
2. The appliance control unit can be installed outdoor, but it must keep a safe distance from the pool tank (at least 3 m), it is recommended to be installed in the pool machine room.
3. Disconnect the equipment from the mains supply before any intervention or maintenance.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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 Product Introduction

2.1 Product Specification

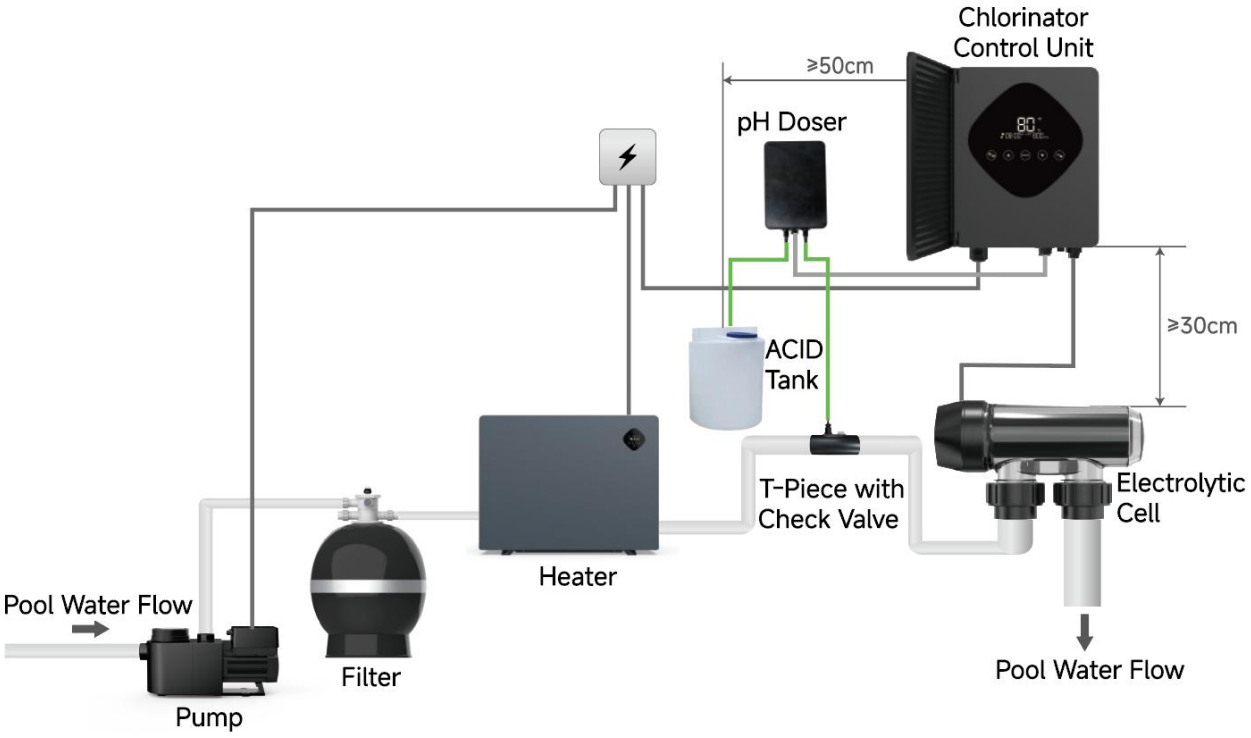
Model	ACS08	ACS16	ACS26	ACS36
100% Chlorine Production (g/h) (Salinity: 3000 PPM)	08	16	26	36
Pool Volume (KL)	25-40	40-70	70-100	100-135
Recommended Salinity	3g/L			
Power Supply	AC 220-240V 50/60Hz			
Max. Output Voltage	DC 12V			
Max Input Power	62W	104W	151W	197W
Advised water flux	5 m³/h-18 m³/h			
Operating Water Temperature	10℃-40℃			
Ambient Temperature	-7℃-42℃			
Pressure for Electrolytic Cell	≤4.5 Bar			
Material of Cell-Housing	PETG			
Water Flow Control	Air Switch			
Cell Lifetime	8000h			

3 Installations and Connections

3.1 Materials and Tools

Tools Needed for Installation
Tape Measure
Phillips & Flathead Screwdrivers
Pliers
Hacksaw
Waterproof solvent cement for Pool Pipes

3.2 Installations Diagram



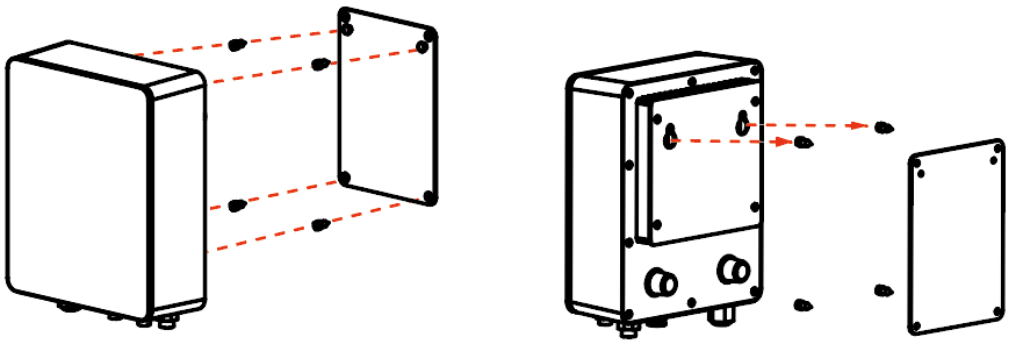
3.3 Control Unit

Note:

- The control unit can be installed outdoor, but it must keep a safe distance from the pool water (at least 3m), it is recommended to be installed in the pool machine room.
- For safety and user convenience, the control unit should be installed from the ground at least 80cm.
- **Don't place the control unit directly above an open chemical container or tank.**
- It is suggested to place the salt chlorinator control unit keeping a distance from the chemical container or tank, **more than 2m is better**. (The minimum distance between the control unit and **the sealed acid barrel** must be 50cm)
- The unit should also be kept away from heat sources. Proper ventilation is essential for correct operation.

- Electrolysis cell is connected to control unit with a **1.8m cell cable**.
- Control unit should be installed at least 30cm higher than electrolysis cell.
- Connect the control unit power supply to an appropriate weatherproof power outlet/controller.
- For easy maintenance, the control unit can be taken out from the mounting surface freely, without any excess operations.

1. Using the wall-mounted backplate as a guide, mark holes on the mounting surface where the control unit will ultimately reside. Drill the holes in the mounting surface.
2. Insert the expansion plugs into the borehole.
3. Install the wall-mounted backplate to the mounting surface using the screws, make sure all screws are tightened.
4. To ensure the control unit is securely mounted and remains stable.

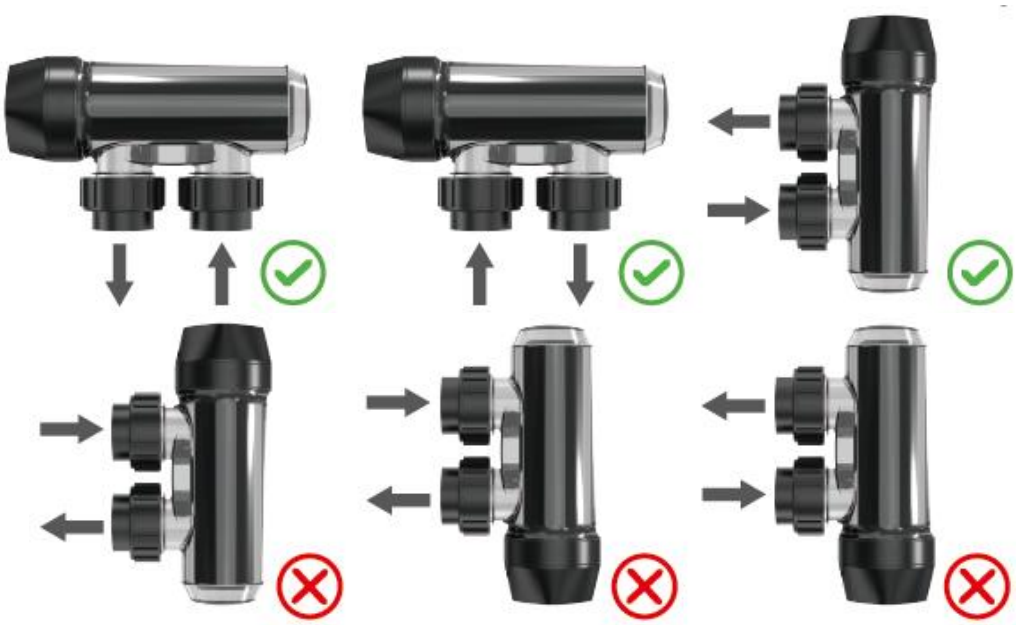


3.4 Electrolytic Cell

Note:

- Before installation, make sure pool pump is turned off.
- It is recommended that the electrolytic cell be installed in the pool return line after the filter and heater.
- The solvent cement or primer can cause damage if allowed to contact the threads or the o rings.
- Electrolysis Cell is connected to Control Unit with a 1.8m cell cable.
- Failing to install in the correct way may cause products faults and void warranty.

1. Shown below are 6 different cell orientations,

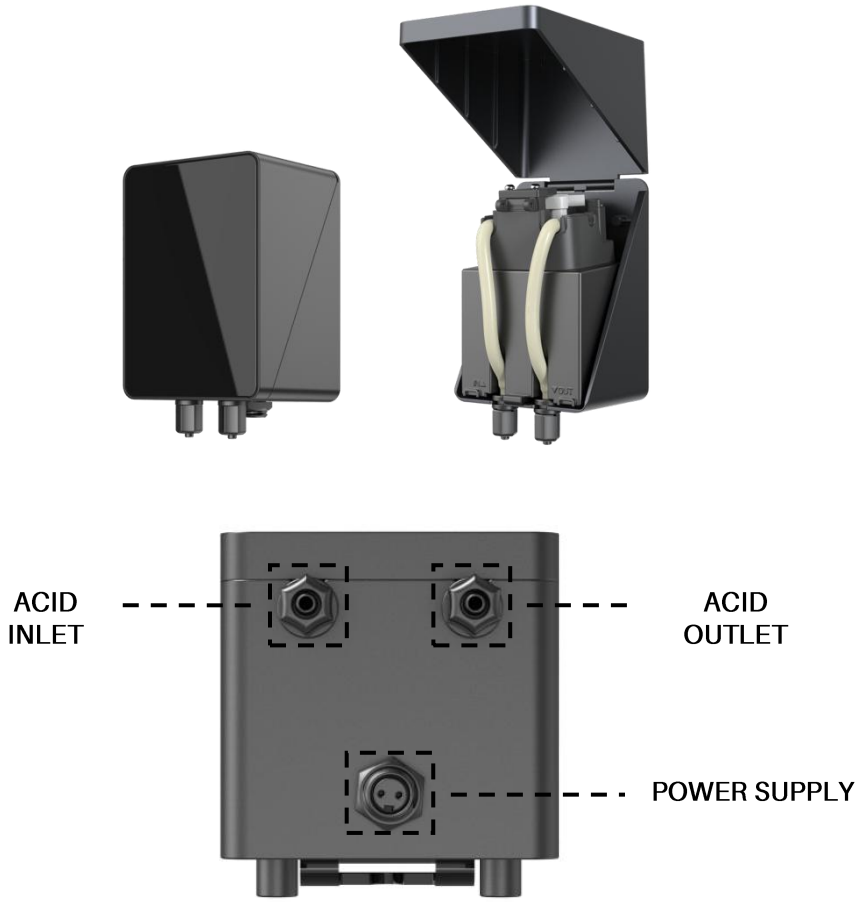


2. The power supply connection cap and the air sensor must be the highest point of the installation.
3. Ensure adequate water flow over the cell plates and the air switch.
4. Make sure the higher water level in the electrolytic cell, and the power supply connection cap is the highest point.
5. The is supplied with 50mm and 63mm unions to connect to the PVC plumbing.
6. Ensure a suitable solvent cement is used to glue the unions to the pipework.
7. Ensure the nuts are over the union tails before gluing them onto the pipework.
8. Once the solvent cement has set, place the cell housing onto the pipework and hand tighten the union nuts with the o rings in place.

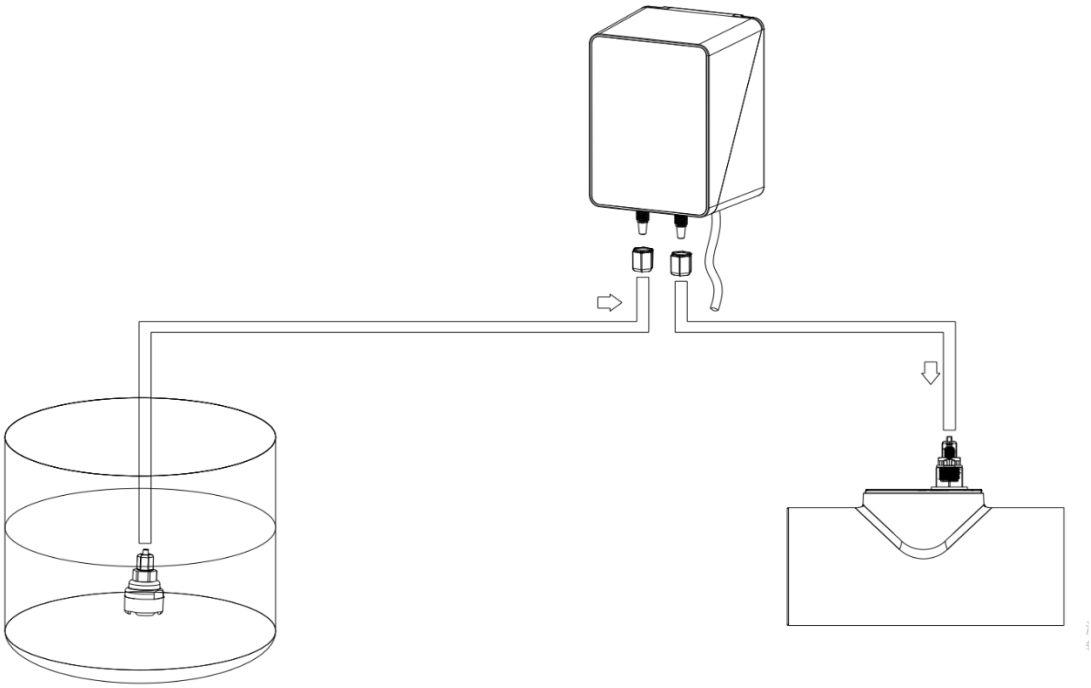
3.5 External pH Doser (Optional)

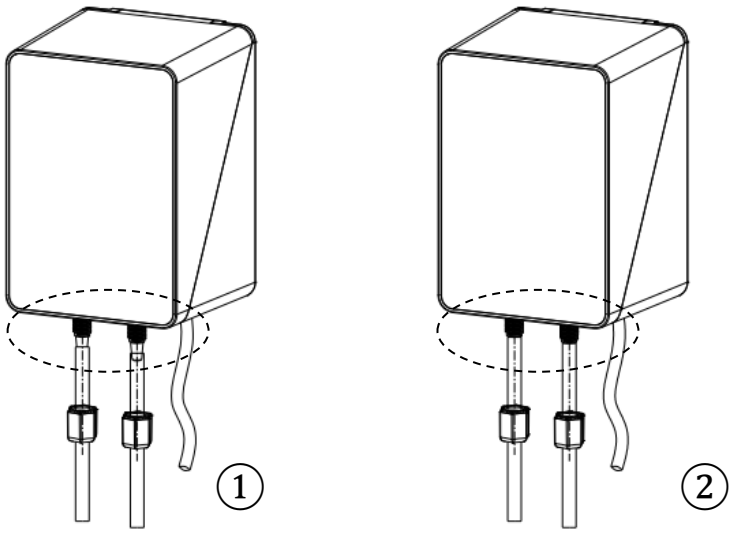
Note:

- It is suggested to use Hydrochloric Acid: ≤12.5% concentration.
- If you're working with chemicals that release strong fumes, **don't place the doser directly above an open chemical container or tank,** as this could cause dangerous reactions and safety hazards.
- The doser should not be installed higher than 1.5m from the ground.

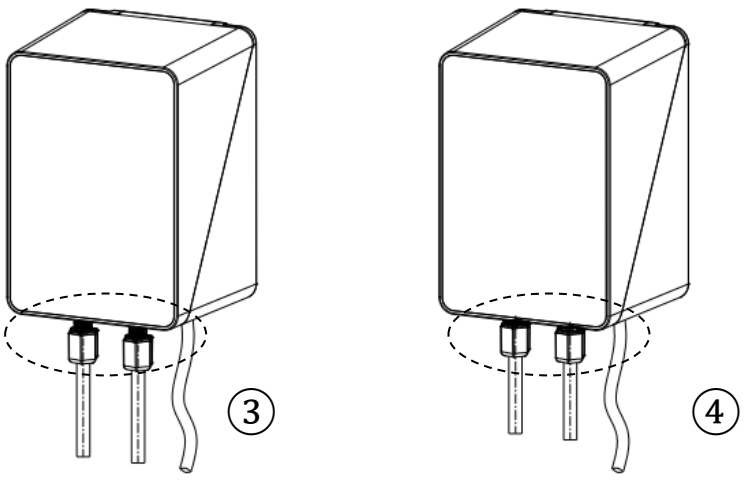


1. Use an impact drill to make holes in the wall and mount the doser in a vertical position. For best results, install this doser on a waterproof mounting panel.
2. Push the tubes all the way onto their connectors until they fit tightly.
3. Secure each connection. by firmly tightening the screws and nuts.
4. Keep the tubes as straight as possible on both input and output sides - avoiding unnecessary bends and curves.
5. Straight tubes paths will help maintain good flow and prevent resistance issues.
6. Apply grease on the peristaltic tube if necessary.



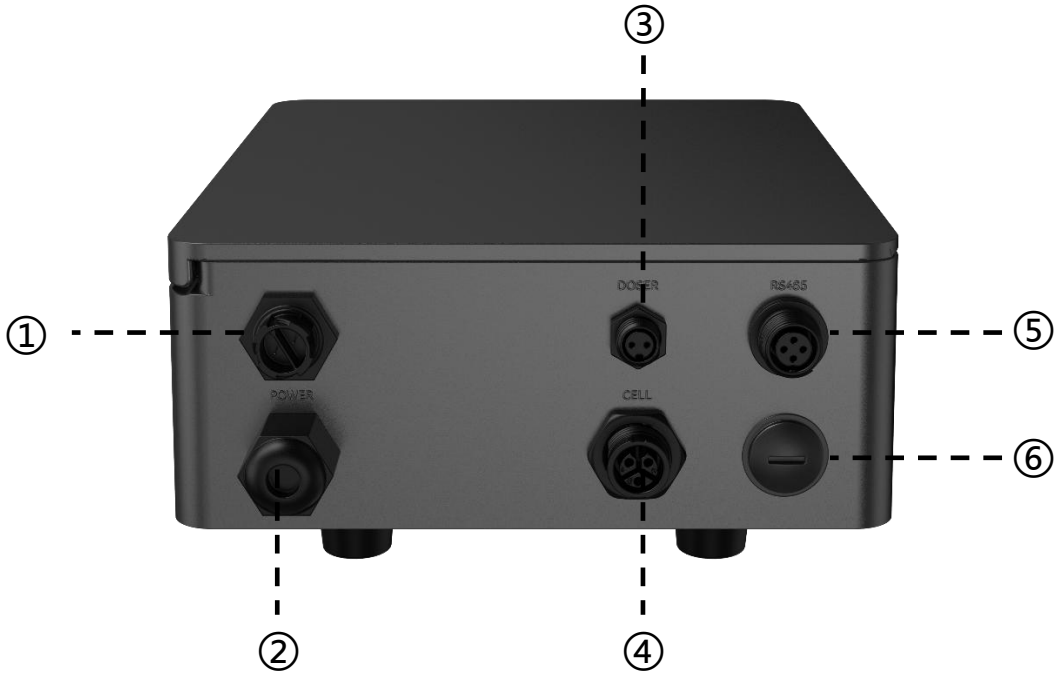


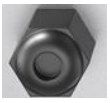
Be careful about the acid tube leakage



3.6 Electronic Control

3.6.1 Control Unit



No.	Port Name	Photo	Description
①	Dry Contact		Dry Contact (5A, 240V)
②	Power Input		AC Power Connector (1.5A, 220-240V, 50/60Hz)
③	Doser (Optional)		Connector for external pH Doser
④	Power Output		Terminal for cell power
⑤	RS 485		RS 485 Connector
⑥	AUX		Auxiliary

3.6.2 Dry Contact Cable Connection (Example: Water Pump)

① Dry Contact Specifications:

Type: Isolated relay contact (NO/NC)
Rating: MAX 5A, 110V-240V AC

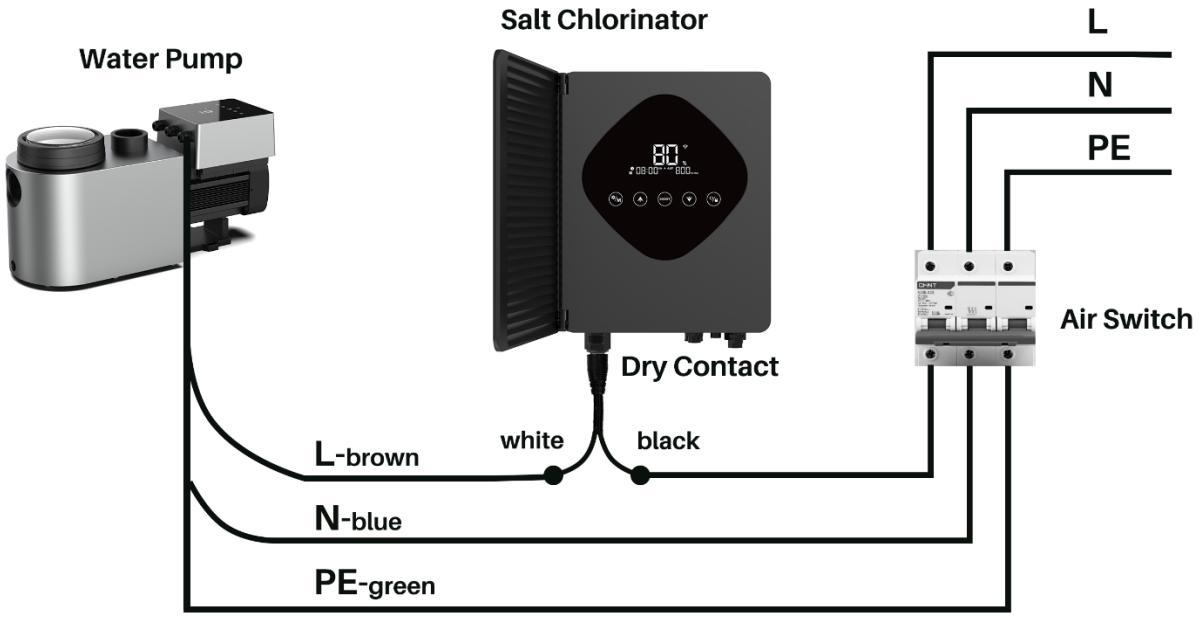
② Characteristics:

- No voltage/current supplied by the contact itself.
- Can switch external AC loads up to 5A at 110-240V.

③ Water Pump Control Logic via Dry Contact:

Chlorinator State / Screen Displayed	Mode	Dry Contact Status	Water Pump Action
Chlorinator is OFF	MAN / AUT	**Disconnected**	**Turned OFF**
Chlorinator is ON	MAN	**Connected**	**Turned ON**
Chlorinator is ON	AUT (DO NOT set timers)	**Disconnected**	**Turned OFF**
Chlorinator is ON	AUT (Set timers, outside the setting timers)	**Disconnected**	**Turned OFF**
Chlorinator is ON	AUT (Set timers, within the setting timers)	**Connected**	**Turned ON**

Our product will be equipped with a Dry Contact Cable (1 m), wire the cable as shown in the diagram below:



a) Remove the outer black insulation from the power supply cable of Water Pump that will be connected to the Salt Chlorinator. Three wires inside are exposed (green, blue, brown).

b) Disconnect three wires of water pump power supply cable.

c) Install Cable Glands or Connectors: If your junction box uses cable glands, screw them into the entry points of the box. These are used to secure the cable and provide a waterproof seal.

d) Insert the Wires into the Junction Box: Feed the wires through the cable glands or waterproof connectors into the junction box. Ensure that the wires pass through without any kinks or sharp bends.

e) Connect the Wires: Inside the junction box, connect the wires using either screw terminals or other appropriate connectors (such as wire nuts or crimp connectors).

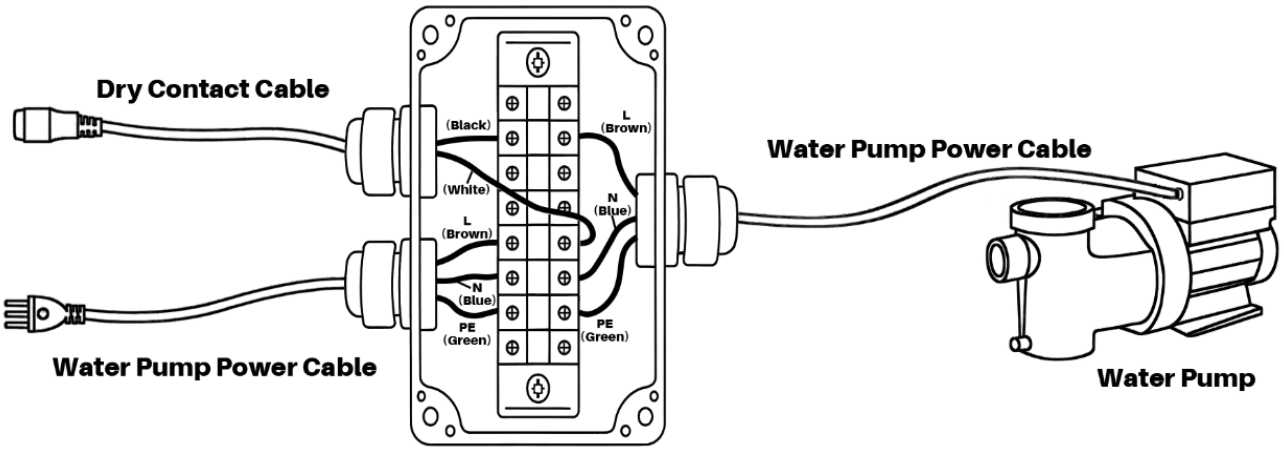
f) Make sure each wire is securely attached and that there is no exposed metal that could cause a short circuit. If necessary, use electrical tape to cover any exposed wire for added protection.

g) Seal the Junction Box: Close the waterproof junction box, ensuring that the sealing gasket or O-ring is in place to prevent water from entering. Tighten the screws or latches that secure the box.

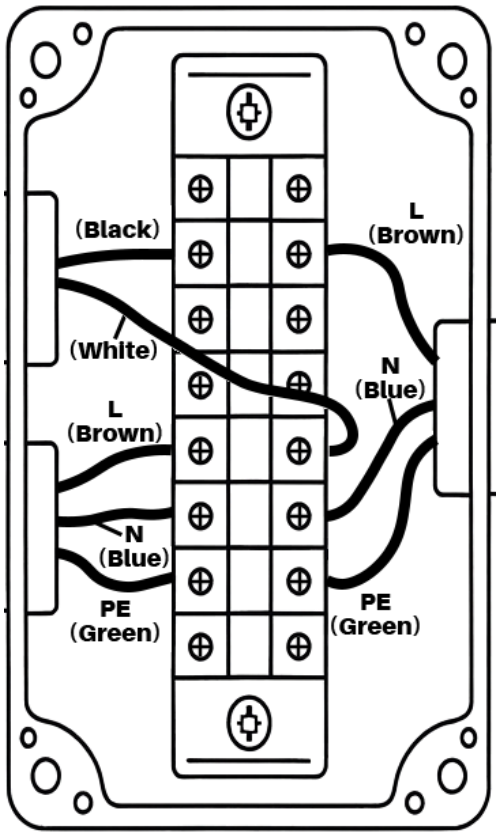
h) Test the Connection:

i) Once the junction box is sealed, test the connection by turning on the power or checking for continuity to ensure everything is connected properly and functioning as expected.

j) Connect dry contact cable with Salt Chlorinator.



The following figure shows a zoomed-in view of the Junction-box:



NOTE:

Ensure the power supply is disconnected throughout the entire operation. Only turn on the socket power after all connections have been completed.

4 Pool Water Preparation

To prepare the pool water to enable the chlorinator, its chemical composition must be balanced and salt added. Certain adjustments to the chemical balance of the pool can take several hours.

The procedure **MUST** therefore be started well **BEFORE** the chlorinator is turned on.

4.1 Adding Salt

Add the salt 24 hours before turning on the chlorinator with the pump working. Ensure that the recommended amount of salt is not exceeded.

Measure the salt content 6 to 8 hours after the amount has been added to the swimming pool.

NOTE:

- 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)
- If your water is supplied from a well, shock chlorination with trichloroisocyanuric acid (2 kg/50 m^3 of water).

4.2 Chemical Water Balance

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

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

CHEMISTRY	Recommended CONCENTRATIONS
Salt	Salt 3g/L
Free chlorine	Free chlorine 1.0 to 3.0 ppm
pH	pH 7.2 to 7.6
Cyanuric acid (Stabilizer)	20-50 ppm, 0 ppm in indoor pool (Add stabilizer only if necessary)
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

5 Control Unit Operation

5.1 General Screen View

Marked Area	Description	Icon
①	• Low Salt Alarm	LOW
②	• Chlorine Production / Pool Volume * k/Lt: Kiloliter, 1 k/Lt equivalent to 1m³.	188 k/Lt %
③	• Low/No Water Flow (Air Switch) • WIFI Connection • Error Notification	AIR IN CELL

④	Time Display * Real-time * Timer (1) and (2)	
⑤	Chlorine Mode (Auto/Manual)	
⑥	Acid Adding (ml/day)	
⑦	Settings	
⑧	Tuning Up	
⑨	Boost Mode Switch	
⑩	Tuning Down	
⑪	Power/Lock Switch	

5.2 Chlorine Production Mode Introduction

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

Configuration	Standard	Standard (Acid adding)
Hardware Options	--	**External Doser**
Selectable Mode	**Auto Mode**	
	Manual Mode	

***Auto Mode: Timer control of the Chlorine output (Max: 2 Timers)**

After the control unit is connected to a power source:

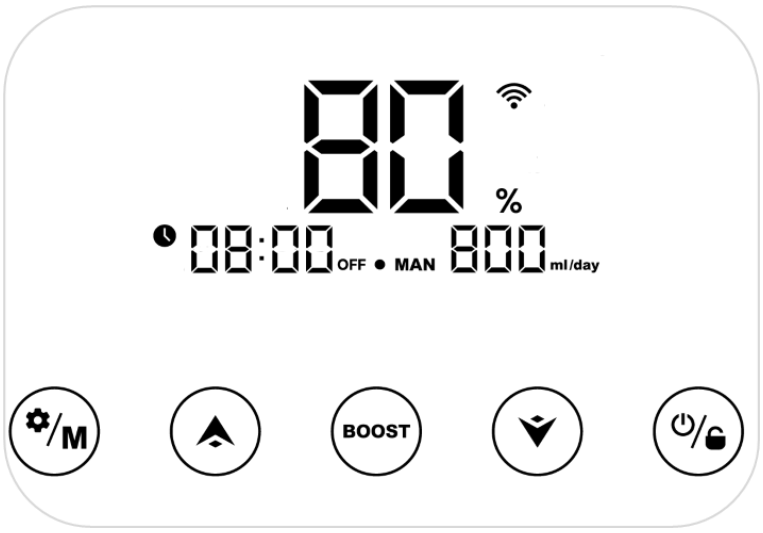
*Timer ON will power on the control unit, enter the HOME screen, begin electrolysis to produce chlorine and add acid.

*Timer OFF will power off the control unit.

***Manual Mode: Manual control of the Chlorine output**

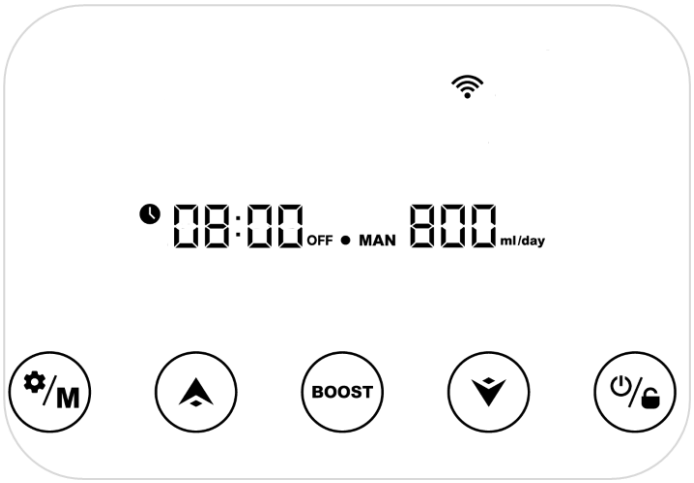
The HOME screen of 2 different modes is shown as follows:

AUTO Mode



MANUAL Mode

The LOCK screen of POWER ON Locked and Power OFF Locked:



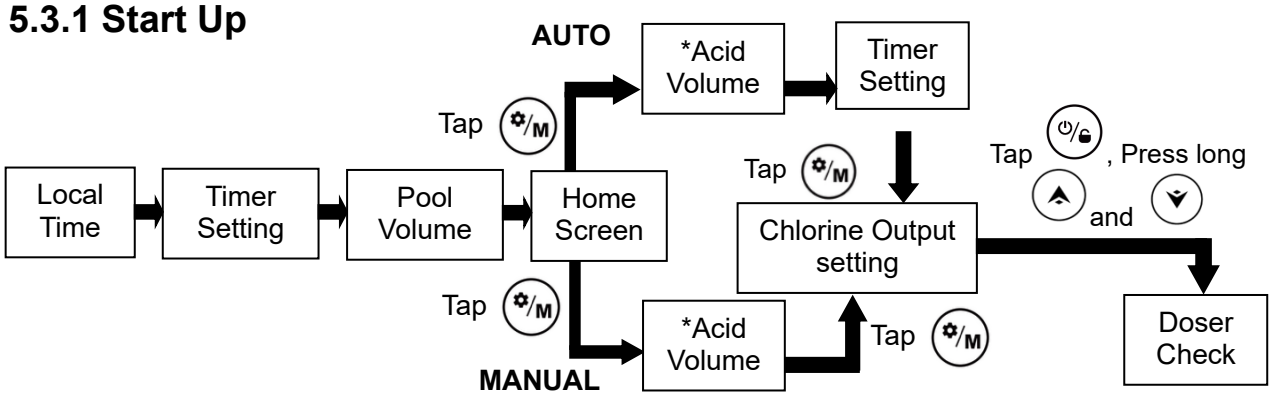
POWER ON LOCKED

POWER OFF LOCKED

5.3 Basic Commands and Functions

Command Keys	Function
	1. **Power ON:** Hold for 3 seconds initially close the “Power OFF lock screen” (five buttons are lit), then tap it to turn to the home screen. 2. **Power OFF:** Tap on home screen (five buttons are lit). 3. **Power OFF LOCK:** After Power OFF, hold for 3 seconds to Power OFF Lock screen (only “Power/Lock Switch” is lit. 4. **Lock/Unlock:** Hold for 3 seconds. **Note:** The auto lock function will be activated after 1 minute without any operation.
	1. **Activate BOOST:** Tap on *24 hours constant operation 2. **Exit BOOST: Tap to exit**
	1. **Chlorine Mode Selection:** Tap on 5. **Main Settings:** Hold for 3 seconds. 2. **Back to home screen:** Hold for 3 seconds (manually) *After 1 minute without operation (automatically)

5.3.1 Start Up



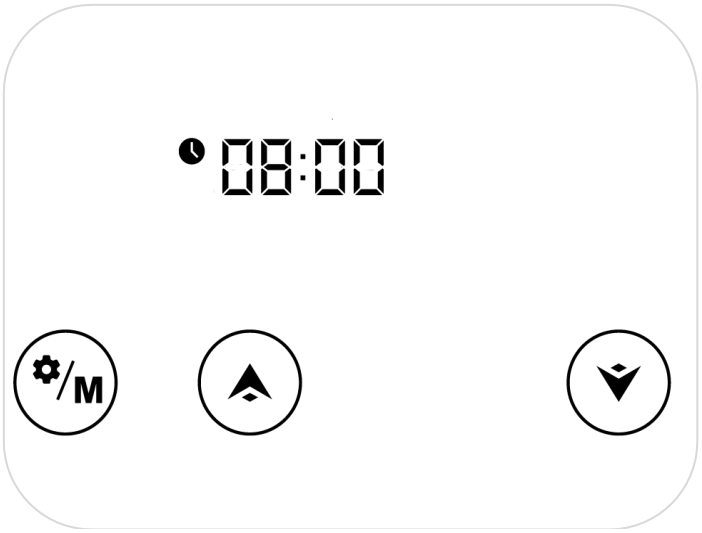
*__Default chlorine mode is AUTO Mode__.

*Only available with dosing pump

① Local Time Setting

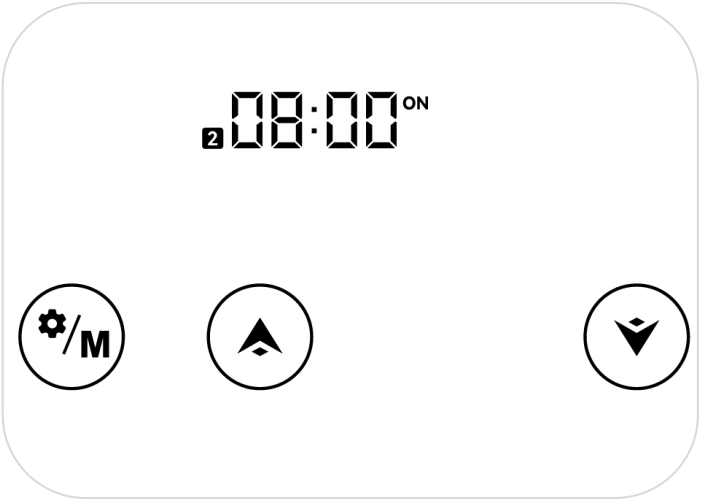
- Hold  for 3 seconds to enter Local Time Setting screen.
- When the local time is blinking, set hours of the local time by tapping  and 
- Tap  to next step.

* Setting Range: 00: 00 ~ 23: 59

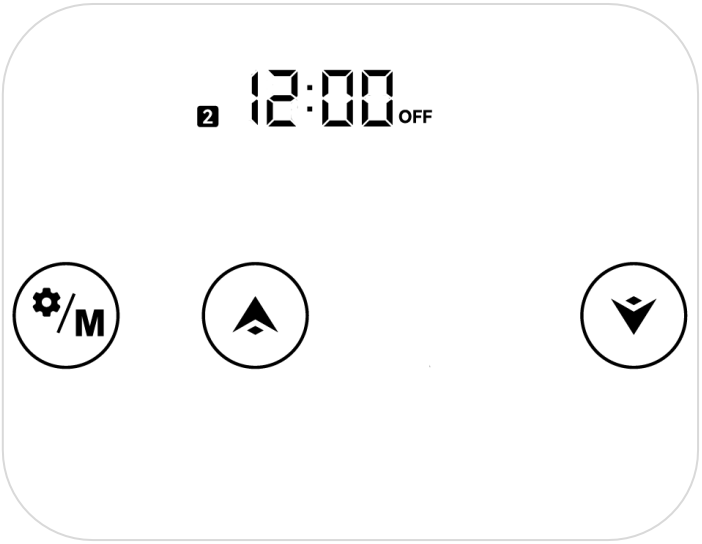


② Timers Setting

- When TIMER ON and 1 lights up, set hours of the first timer by tapping ▲ and ▼, save the parameter by tapping M, then set and save minutes in the same way.
- When TIMER ON setting is finished, TIMER OFF lights up, set the end time of the first timer in the same way.
- When 1 vanishes and 2 lights up, set the start and end time of the second timer, if required in the same manner.
- Tap M to Confirm Timers setting.



Timer ON



Timer OFF

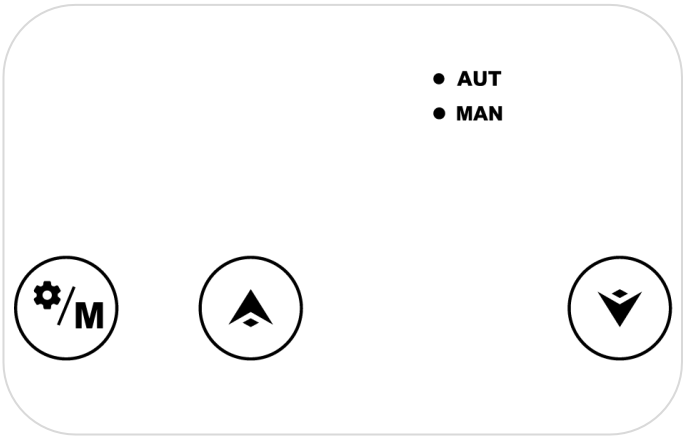
③ Pool Volume Setting

- When pool volume value is blinking, it can be turned from 5 to 150 k/Lt (m³), in increments of 5, by tapping ▲ or ▼. Hold the button can accelerate the tuning speed.
- Tap M to next step.

④ Chlorine Mode (Tap M)

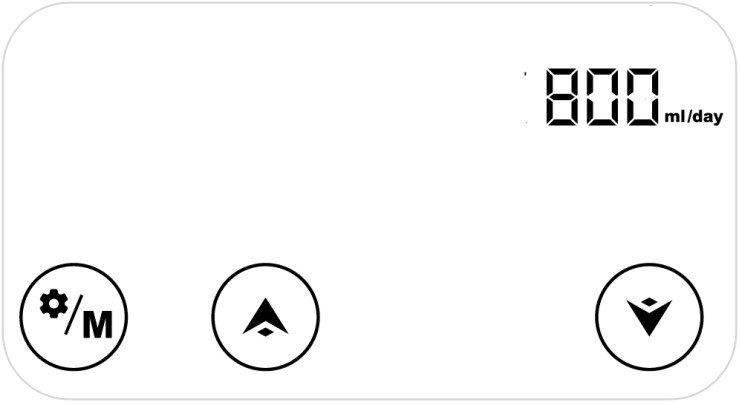
- When **AUT** is blinking, tap ▲ or ▼ to select chlorine production modes.
- Tap M to confirm your selection and go to next step.

*Default mode is AUT mode.



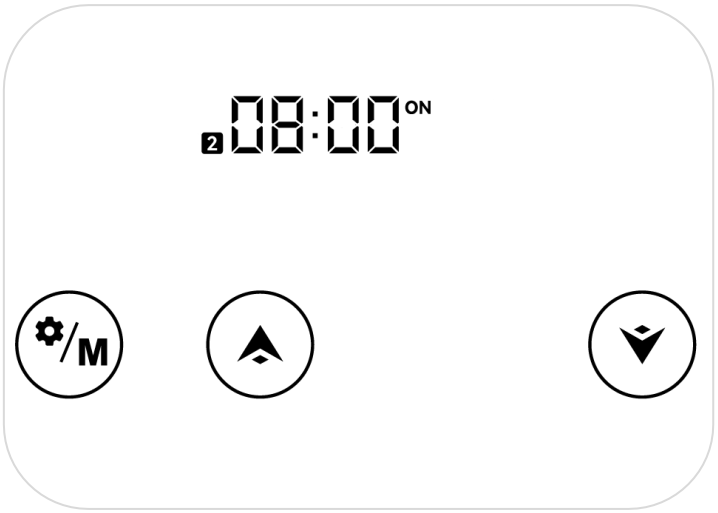
⑤ Acid Dosing Volume Setting (Only Available with Doser)

- When the number is blinking, it can be turned from 0 to 6000, in increments of 50 or 100, by tapping ▲ or ▼. Hold the button can accelerate the tuning speed.
- Tap M to next step.

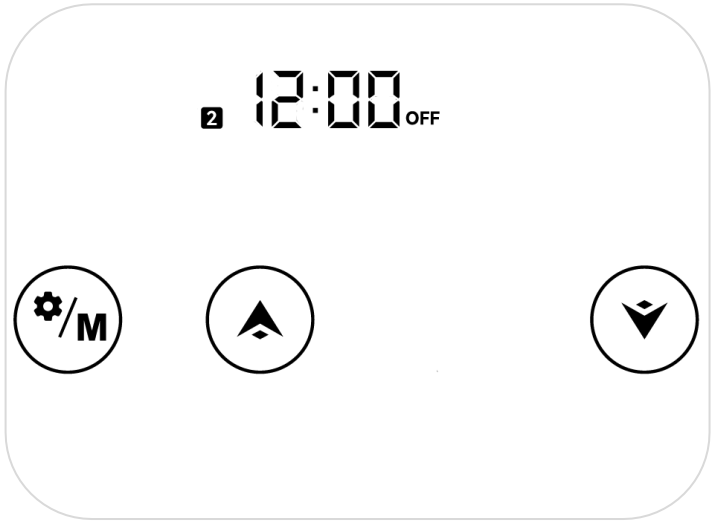


⑥ Timers Setting (Only AUTO Mode)

- When TIMER ON and 1 lights up, set hours of the first timer by tapping ▲ and ▼, save the parameter by tapping M, then set and save minutes in the same way.
- When TIMER ON setting is finished, TIMER OFF lights up, set the end time of the first timer in the same way.
- When 1 vanishes and 2 lights up, set the start and end time of the second timer, if required in the same manner.
- Tap M to Confirm Timers setting.



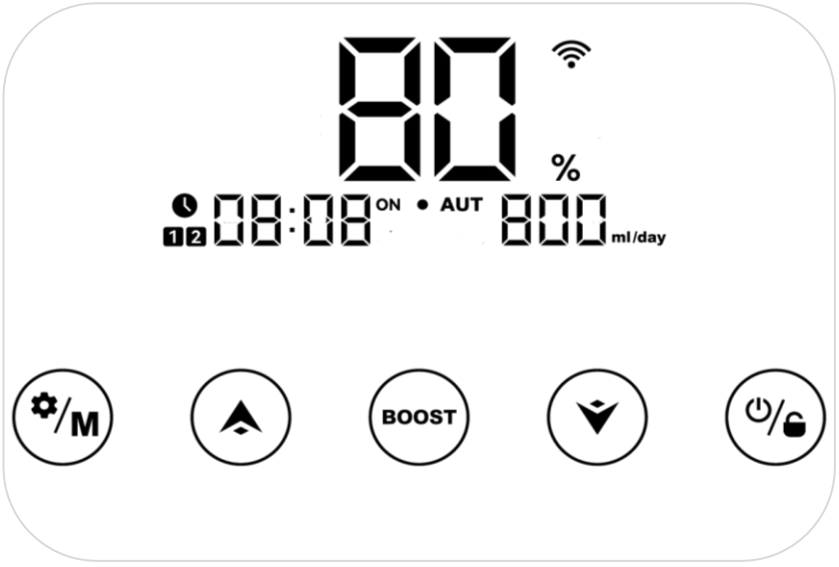
Timer ON



Timer OFF

⑦ Chlorine Output

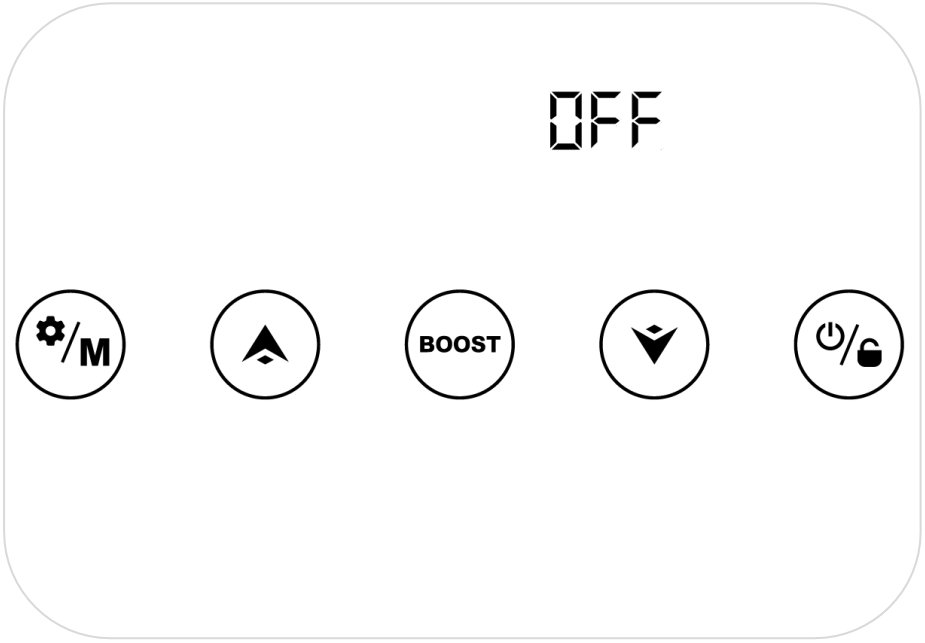
- On the home screen, tap ▲ or ▼ to adjust the chlorine output, 0~100%.



⑧ Doser Check (optional)

To check the Doser works properly or not, the steps are as follows:

- Make sure the Doser hoses and PE acid tubes are connected and fitted tightly.
- Check the acid tank's fluid level, make sure PE acid tube is connected to suction valve in the tank.
- Tap ⏻/🔒, turn off the Chlorinator (**Power OFF**).
- Hold the place of ▲ and ▼ for 3 seconds, the Doser will rotate for 15s, to check its rotation.
- Repeat last step 3~5 times, until the acid solution is fulfilled in PE acid tubes and peristaltic tube.
- Acid solution is pushed out to pool water through the Doser tube, the Doser is ready.
- Tap ⏻/🔒, turn on the Chlorinator (**Power ON**).

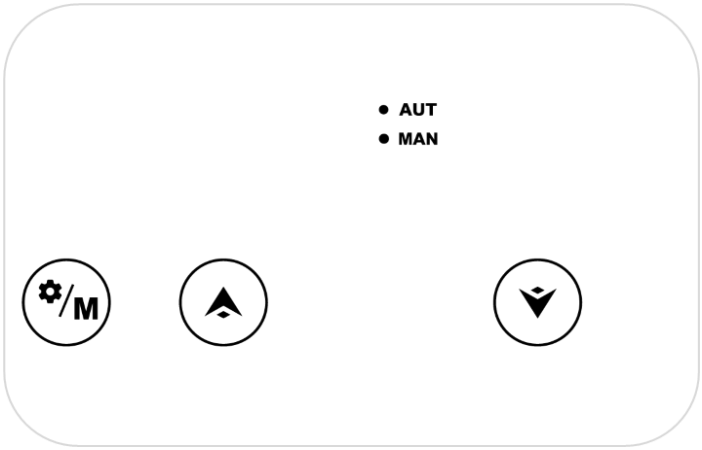


Power OFF

5.3.2 Main Settings

① Chlorine Mode Selection

- Tap ⚙/M to enter the Chlorine mode selection
- Tap ▲ or ▼ to select chlorine production modes.
- Tap ⚙/M to confirm your selection and go to next step.

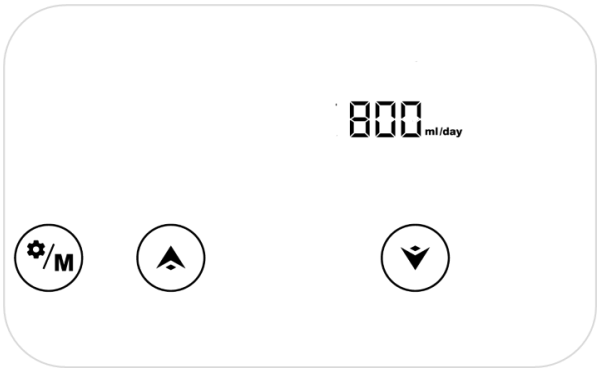


Chlorine Mode Switch

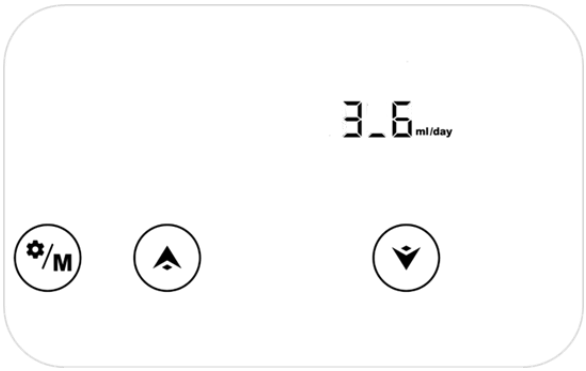
NOTE: Hold M for 3 seconds to back to home screen.

② Acid Dosing Volume Setting (Only Available with Doser)

- The default digit display on the pad screen is “0 mL/day”.
- When the number is blinking, it can be turned from 0 to 6000, in increments of 50 or 100, by tapping ▲ or ▼. Hold the button can accelerate the tuning speed.
- Tap M to next step.



Acid Dosing Volume (< 1000ml)

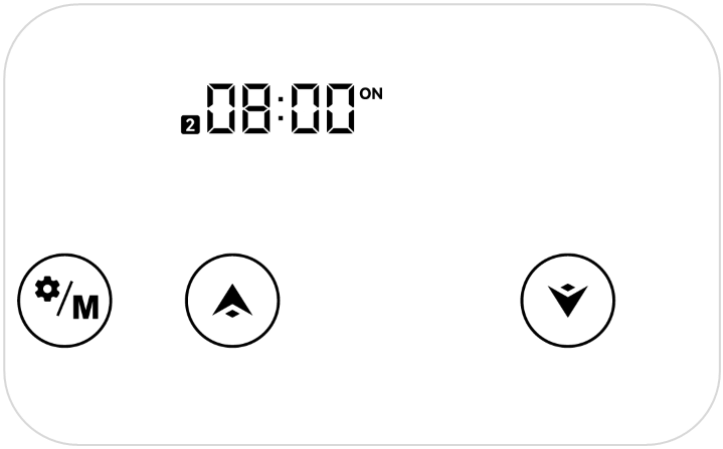


Acid Dosing Volume (> 1000ml)

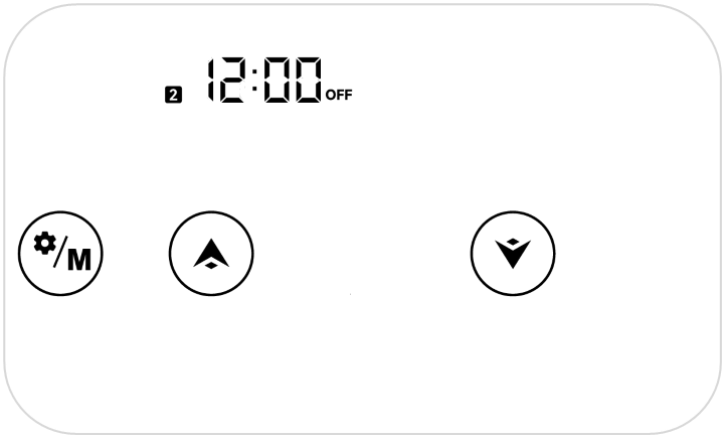
③ Timers Setting

- When TIMER ON and 1 lights up, set hours of the first timer by tapping ▲ and ▼, save the parameter by tapping M, then set and save minutes in the same way.
- When TIMER ON setting is finished, TIMER OFF lights up, set the end time of the first timer in the same way.
- When 1 vanishes and 2 lights up, set the start and end time of the second timer, if required in the same manner.

- Tap  to Confirm Timers setting.



Timer ON



Timer OFF

5.3.3 Basic Configuration

① Local Time Setting

- Hold  for 3 seconds
- When the local time is blinking, set hours of the local time by tapping  and 
- Tap  to next step.

② Pool Volume Setting

- When pool size value is blinking, it can be turned from 5 to 150 k/Lt (m^3), in increments of 5, by tapping  or  . Hold the button can accelerate the tuning speed.
- Tap  to enter HOME screen.

5.3.4 BOOST Performance

① Switch ON: Tap BOOST to enter Boost mode, the device will run at 100% power for 24 hours.

* 24-hour countdown displays on the screen

② Switch OFF: Hold BOOST for 3 seconds.

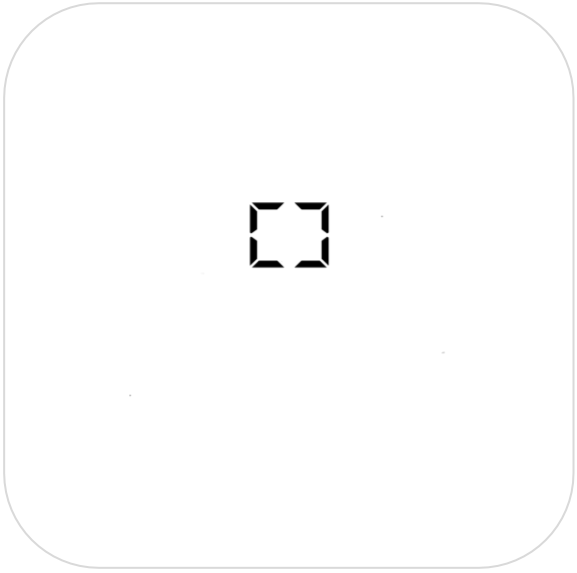
NOTE:

- Boost mode is suggested to be activated when chlorine is urgently needed.
- If the chlorinator is out of power, the 24-hour countdown will be refreshed.
  Unable to manually turn off the unit during the Boost mode.
- When the Boost mode terminates or stops, production continues according to the preset settings.

5.3.5 Restore Factory Settings

Tap M to the next screen menu.

Hold ▲ and ▼ for 3 seconds, hearing the beeper, the chlorinator is restored to factory settings.



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.

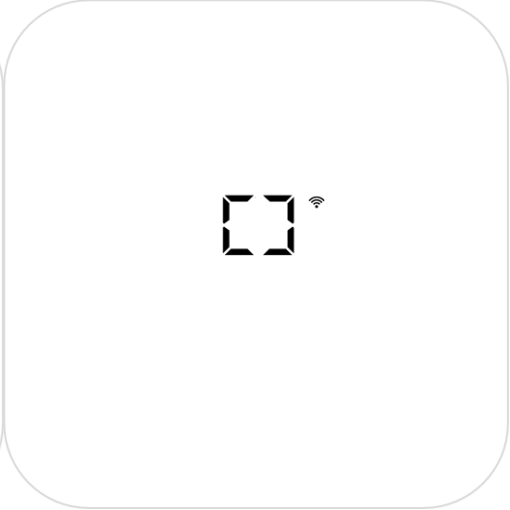
5.3.6 Network Configuration

① Enter Network Configuration screen by holding  and  for 3 seconds.

②  Lighted up with counterclockwise, then:

a. If  is lighted up, WIFI connection will be active with 2 sounds buzzer.

b. If  is lighted up with 3 sounds buzzer, WIFI failed to connect, back to home screen.



6 Wi-Fi Instruction and iGarden App

6.1 Start-Up

6.1.1 Download App on Smartphone

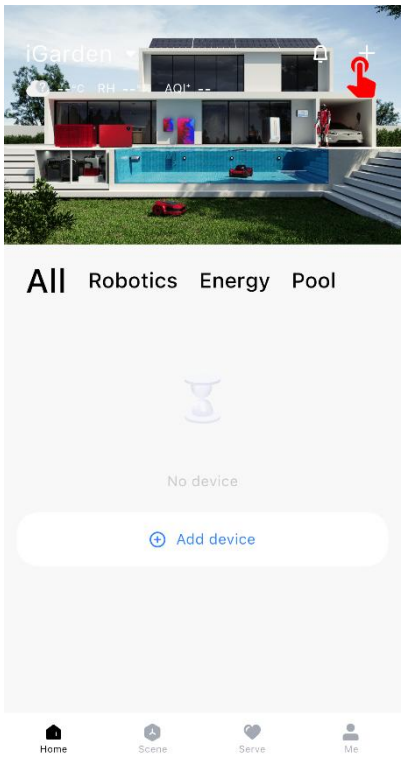
“iGarden” app is available on App Store and Google Play.
Please scan the following QR code to download:

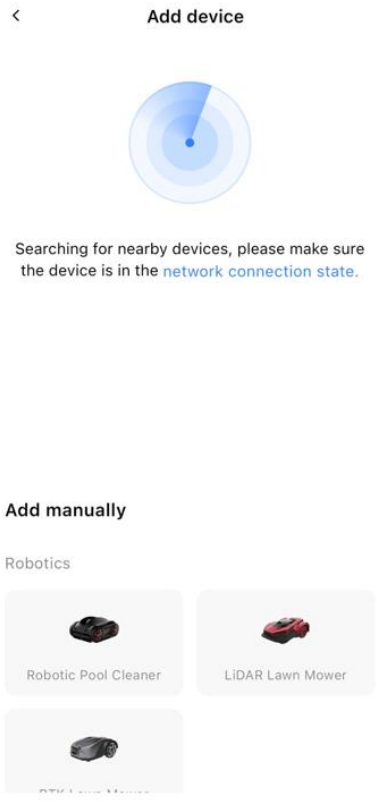
6.2 Networking Configuration

6.2.1 Auto Scan

① Turn on your local Chlorinator, Wi-Fi device, cell phone Bluetooth.

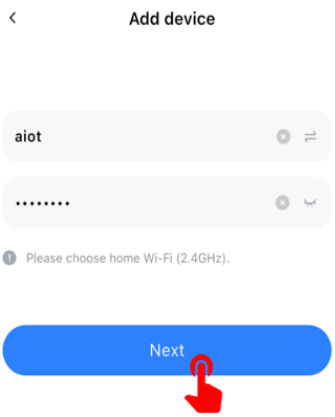
② Enter the “iGarden” App, tap the "+" icon in the top right corner of the home page, and then tap "Add Device".

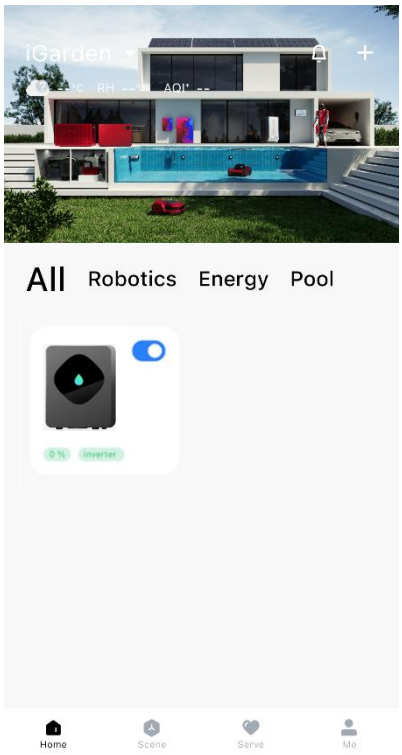




③ When chlorinator is on home screen, tap  to enter settings, hold  and  for 3 seconds, when an intermittent beep occurs, and enters network connection mode.

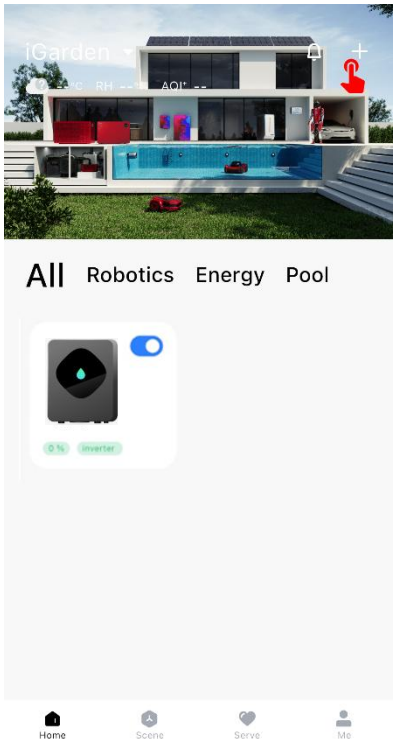
④ When your phone finds the chlorinator, it will be displayed on your phone. Tap "Next", enter the WIFI password and tap “Next”. Then the device will be automatically connected to the App.

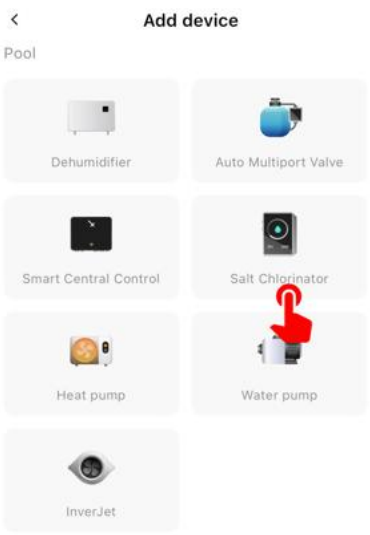




6.2.2 Wi Fi hotspot

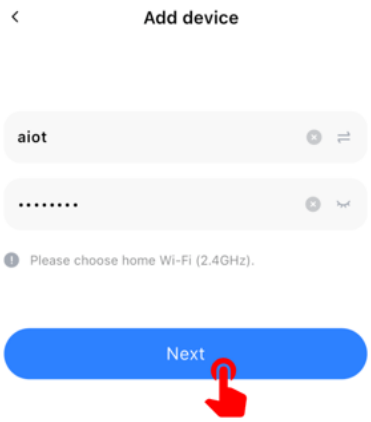
① Turn on your local chlorinator, Wi-Fi device, cell phone Bluetooth.
② enter the “iGarden” App, tap the "+" icon in the top right corner of the home page, and then Tap on "Add Device".

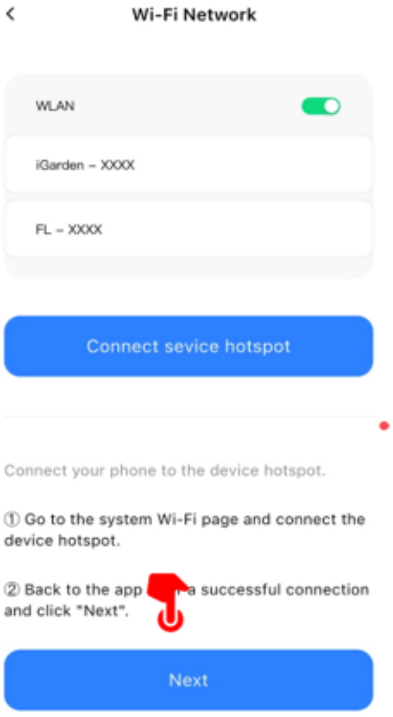


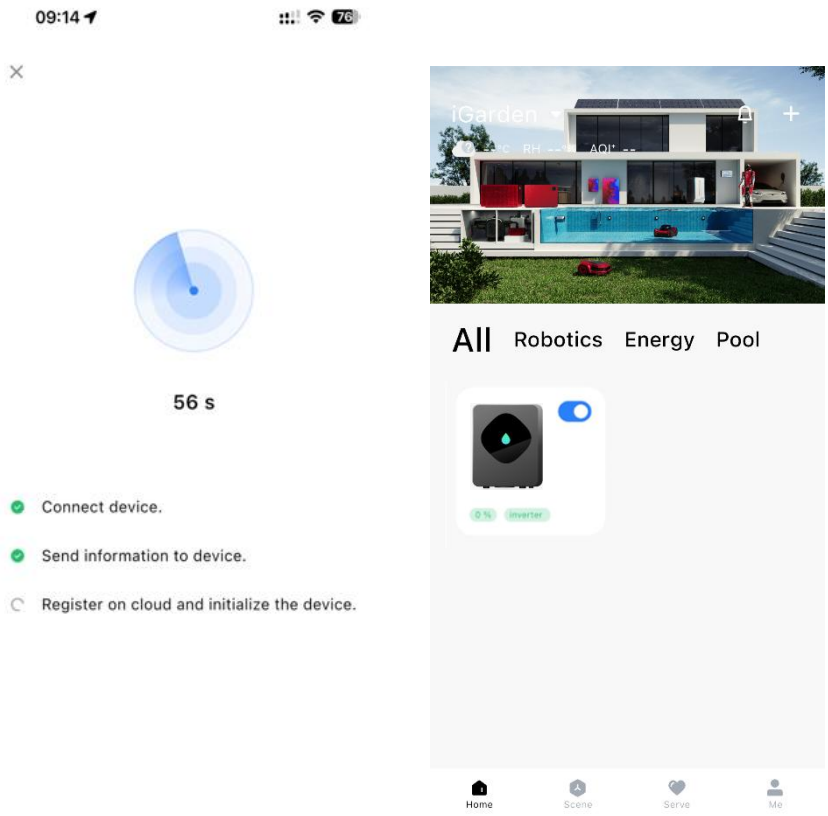


③ Enter the WIFI password and tap “Next”, When chlorinator is on home screen, tap M to enter settings, hold M and ▲ for 3 seconds, when an intermittent beep occurs, and enters network connection mode.

④ After the chlorinator enter network connection mode, connect your cell phone to the hot spot, as follow:







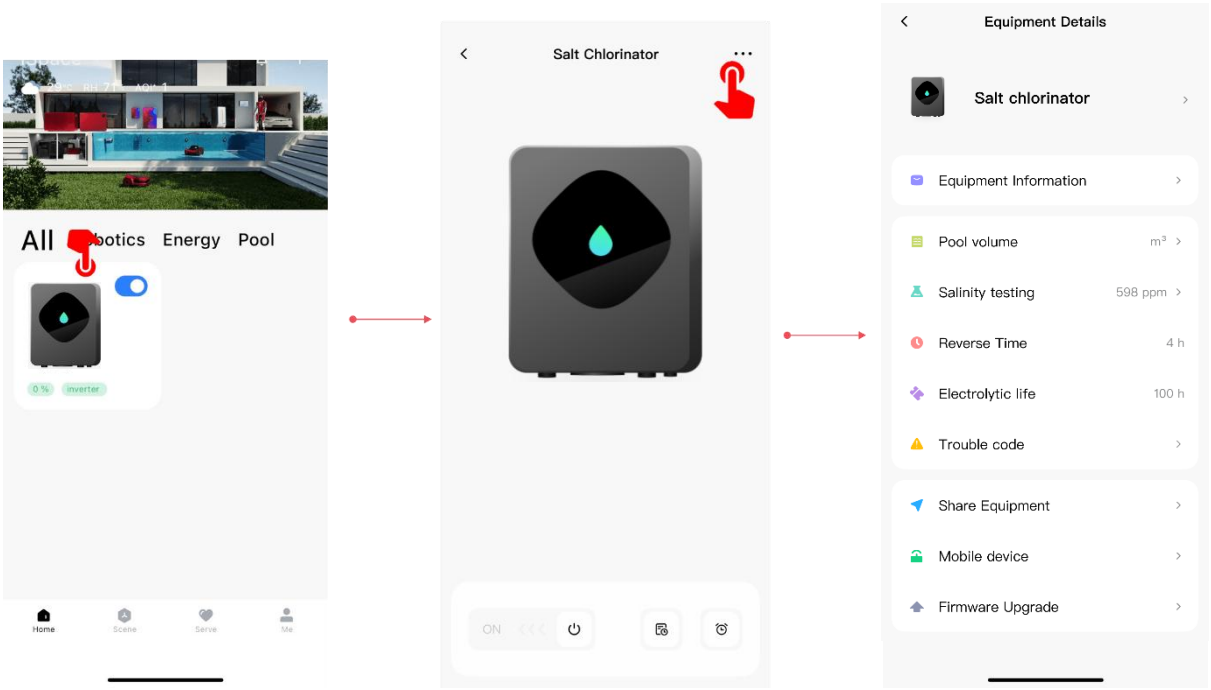
6.3 Remove Control

After Networking Configuration:

① On iGarden Home screen, user can tap the chlorinator icon enter its main screen. Or switch on/off the chlorinator by the blue slider.

② Chlorinator main screen displays real time status parameters and mode. User can adjust setting points, timers and switch to different modes.

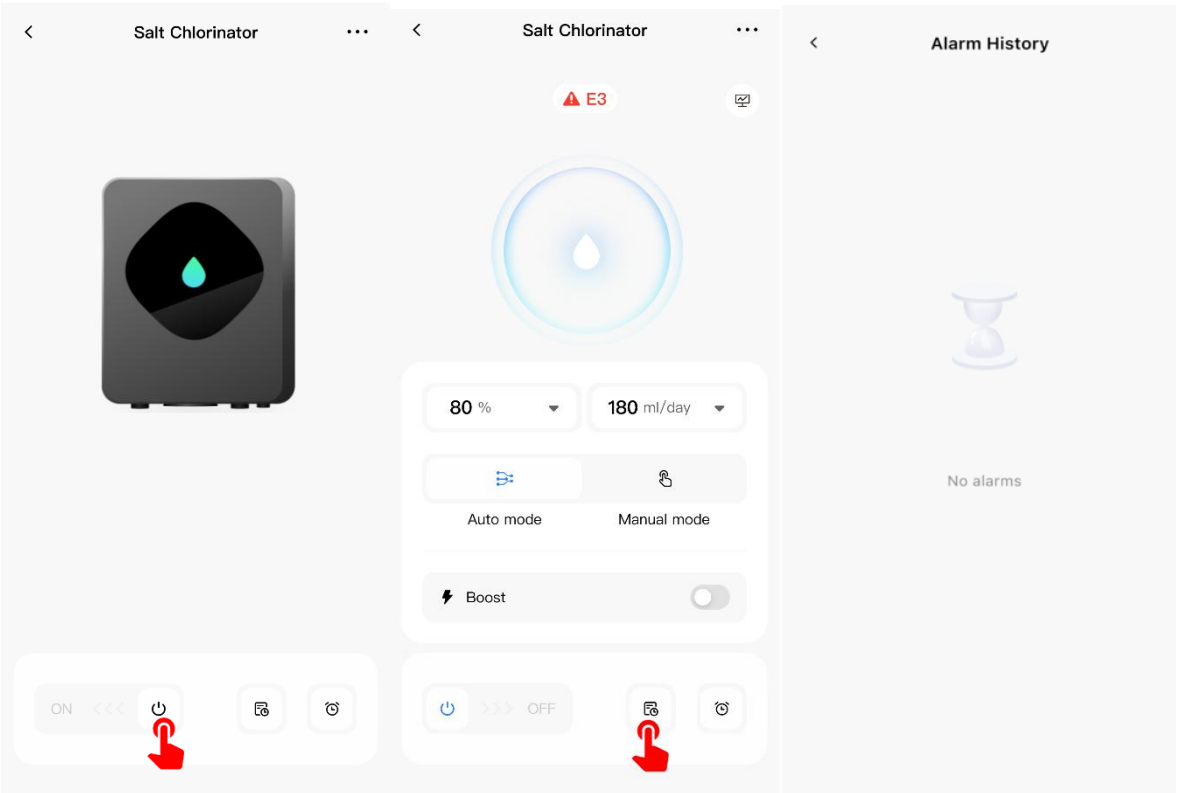
③ Tap " … "on the upper right corner to enter Device details: Device Information, Pool Volume, Salinity Calculation, Polarity Reversal Interval, Electrode Plates Life, Failure Code, Remove Access.



iGarden Home screen　　Chlorinator main screen　　Device details

6.3.1 Alarm or Error History

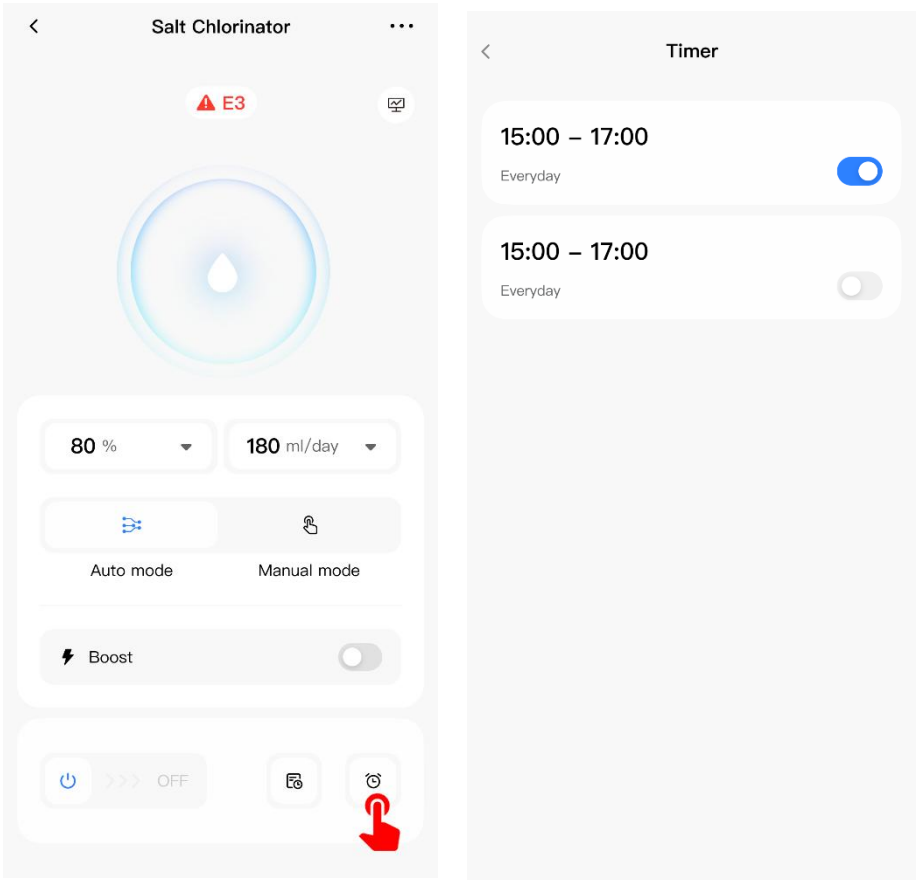
① Enter alarm or error history in the chlorinator main screen.



6.3.2 Timer Settings

① Enter Timer Settings in the chlorinator main screen.

② Timers include: 2 chlorinator timers.



6.4 OTA Upgrade

① When upgrade is available, upgrade information will pop up and Tap “Update Now”.

② Or Tap on the brush icon in the top left corner of the screen to enter the settings screen.

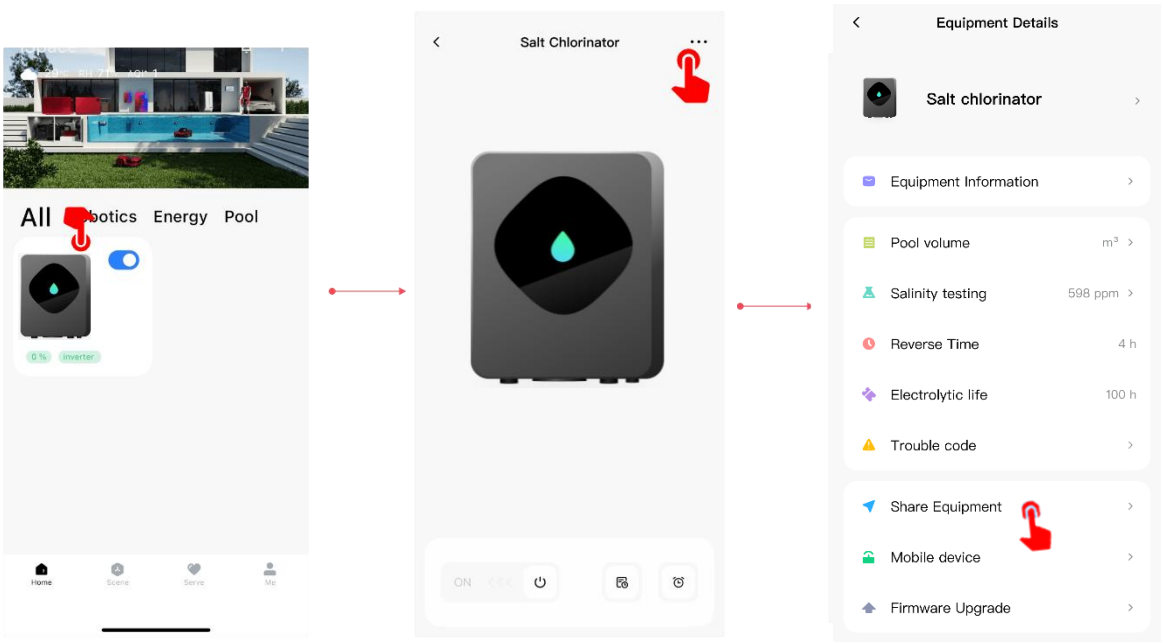
③ Tap "Device Upgrade" at the bottom to upgrade.

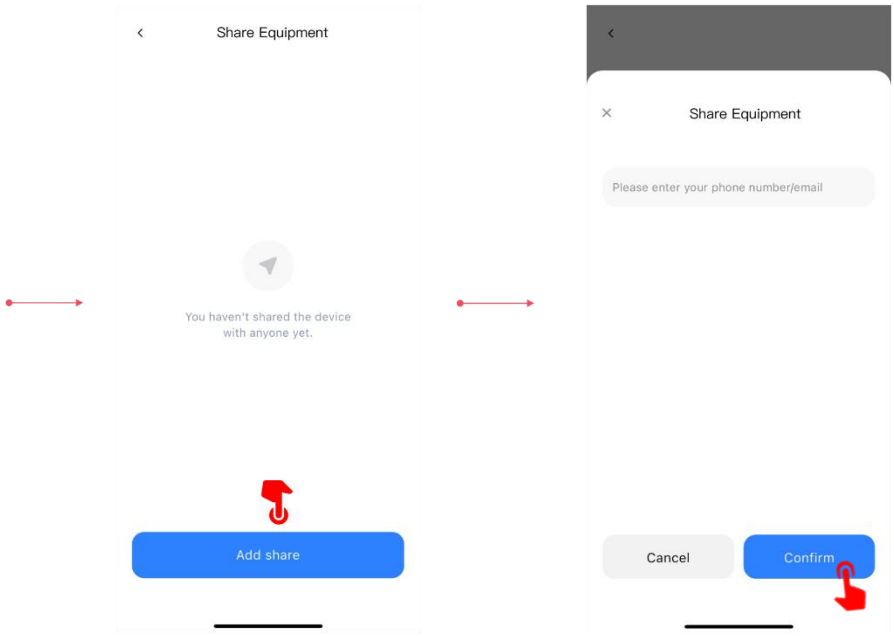
6.5 Device Sharing

① Enter the app Settings, tap “Share Device”.

② Add the mobile number of the corresponding person being shared.

③ The user being shared can view the device's information simultaneously.





6.6 Change Language Settings

① Click "Me" in the lower right corner.

② Click the “Settings” button in the upper right corner, swipe down and select "Language" to switch to the target language.

7 Salt Replenishment

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

Calculate the volume of the swimming pool and add 3 to 5 Kg of salt per cubic meter. The suggested salinity is 3 g/L. Make sure the chlorinator is disconnected during the whole salt adding process, and turn on the filtration system for at least 24 hours, allowing the salt to dissolve completely.

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

The salt dissolving process can be accelerated using the pool cleaner. Check the salt concentration is between 3 and 5 kg/m³ using a kit from a specialized pool shop.

The salt concentration may reduce over time due to rain or other periodic freshwater contributions (topping up, backwashing, etc.). Whenever the salt concentration needs to be corrected, pour salt as close as possible to the return lines. Never pour salt in the skimmers or near the drain inlet.

8 Maintenance

8.1 Cleaning the Cell

The smart polarity inversion system is designed to prevent the electrode plates from corrosion and scaling (Default setting = 4 hours, 1~10 hours optional). However, periodic cleaning may be required when the water hardness is too high.
The cleaning process is listed as follows:

① Turn off the chlorinator and the filtering, close the isolation valves, and ensure power is disconnected at the isolating switch.

② Place the cell backwards and fill it with a cleaning solution so that the electrode plates are immersed.

Do not allow the cell cap assembly to be immersed.

③ Leave the cleaning solution to dissolve the scale deposit for about 15 minutes. Dispose of the cleaning solution at an approved waste recycling site, never pour into the rainwater drainage system or into the sewers.

④ Rinse the electrode using clean water and put it back on the cell fixture collar (there is an alignment mark).

⑤ Open the isolation valves and restart the filtering and chlorinator.

⑥ If you do not use a commercially available cleaning solution, you can manufacture it yourself by carefully mixing 1 volume of hydrochloric acid with 9 volumes of water (Warning: always

pour the acid into the water and not the opposite and wear suitable protective equipment!).

⑦ Make sure that the setting of the polarity inversion cycles is adapted to the pool water hardness.

8.2 Maintenance of the Doser (Optional)

To check the Doser works properly or not, the steps are as follows:

① Tap  , turn off the Chlorinator (Power OFF).

② Hold the place of  and  for 3 seconds, the Doser will rotate for 15s, to check its rotation.

③ Apply lubricant on the inner tube if necessary.

NOTE:

- **Manual Mode**: the Doser will rotate according to **pH Dosing Volume Setting**.

9 Overheat Protection

Overheat protection will be activated when the power pack temperature inside the main control unit is higher or equal to 70 ℃.

High Temperature (Power pack)	70℃≤Temperature ≤ 75℃	A. Electrolytic output reduces.
Over Temperature (Power pack)	Temperature > 75℃	A. E4 occurred Stop electrolysis B. Temperature ≤ 68℃, E4 off, electrolysis starts again.

Overheat protection will be lifted when the temperature drops below or equal to 68 ℃.

10 Error Code

Error Code	Description	Logic	Control Unit Action
E1	Abnormal Electrolysis	a. Electrolytic output power greater than 0% 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	Upon triggering the 'AIR IN CELL' indicator and continuous timing for 210 seconds	A.E3 occurred B. Stop the Filter Pump
E4	Over Temperature (Power pack)	Control Unit Temperature ＞75℃ Overheat protection will be lifted when the temperature drops below or equal to 68 ℃	A. E4 occurred B. Stop electrolysis

11 Indicators

Description	Logic	Action
AIR IN CELL	Read the status of the air switch for 15 seconds: If the air sensor is in contact with air for 10 seconds or more, it is determined that the electrolytic cell has entered air.	A. Stop electrolysis B. Light up: **AIR IN CELL** 
LOW SALT	1. When the salinity is detected to be less than 2000ppm for 4 times, it is determined to be Low Salt. Low Salt indicator will disappear when the salinity is detected to be more than 2500ppm. 2. When the salinity is detected to be less than 1200ppm, stop electrolysis; It will restart electrolysis when the salinity higher than 1500ppm.	A. Light up: **LOW** B. Stop electrolysis when salinity less than 1200ppm.

12 After-Sales Support

Important Information for After-Sales Support

To ensure that we can assist you effectively when you contact our after-sales service, please have the following information ready:

Product Information

- **Serial Number** (located on the nameplate)
- **Device Virtual ID** (available in the iGarden app)
- Device Model

Problem Description

- Error Code Display
- Device Readings and Production Status
- Frequency and Timing of Issues

Usage Environment

- Pool Size, Indoor/Outdoor
- Water Flow and Filtration Time

Providing this information will help us resolve your issue more efficiently. Thank you!

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