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1 Warnings



WARNING: General Information

1. Carefully read the instructions that appear in this manual and on the device. Failure to comply with the instructions can cause injuries. This document must be given to every pool user, who should keep it in a safe place.
2. Chemicals can cause internal and external burns. To avoid death, serious injury and/or damage to equipment, 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 a lack of experience and knowledge, unless they have been given supervision or instruction.
4. Children must not play with the device. User maintenance and cleaning must not be carried out by unsupervised children.
5. The chlorinator must be located or fixed so that it cannot fall into the water.
6. Avoid damage due to water freezing.
7. Use only original Fairland parts.



WARNING: Electrical Hazard.

1. The appliance is intended to be used only in swimming pools.
2. The control unit 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 connections must be carried out by a qualified, 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 product's power supply.
7. To reduce the risk of electric shock, do not use an extension cable to connect the device to the mains. Use a wall socket.
8. The device must not be used if the power cord is damaged. An electric shock could occur. A damaged power cord must be replaced by the after-sales service or similarly qualified persons to avoid danger.

2 Product Introduction

2.1 Product Specification

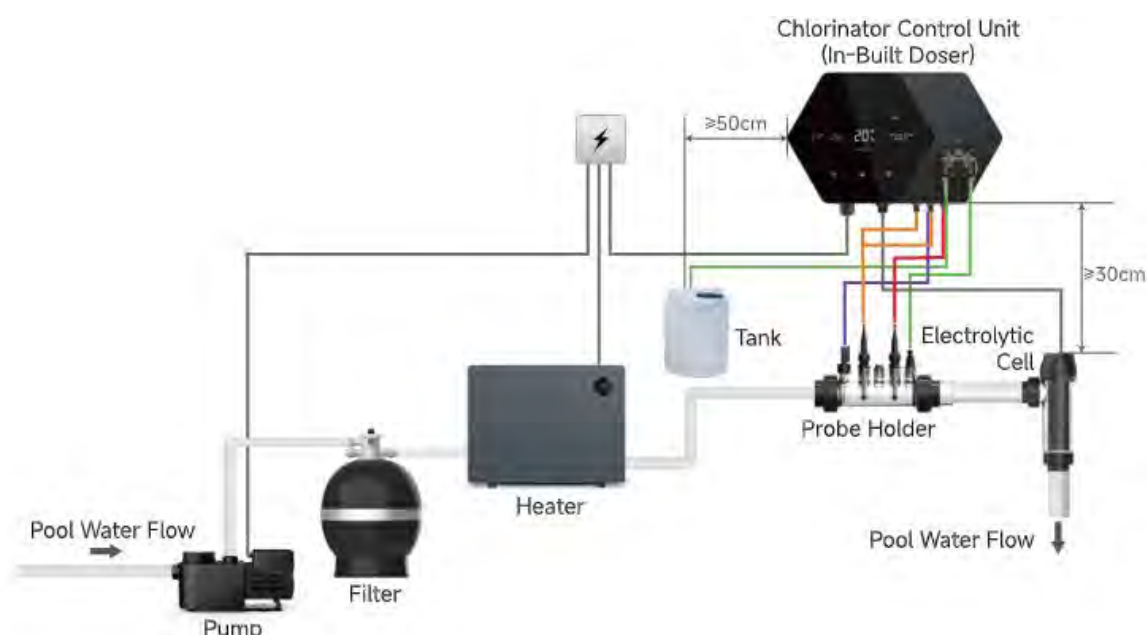
Model	ALS14	ALS21	ALS28	ALS33
Chlorine production (g/h) (Salinity: 3000 PPM)	14.0	21.0	28.0	33.0
Pool Volume (m ³)	50-70	70-85	80-110	100-125
Recommended Salinity	3 — 5 (recommended 3g/L)			
Power Supply	220—240V~ 50/60Hz			
Max. Output Voltage	DC12V	DC12V	DC12V	DC12V
Max Input Power	88W	123W	158W	181W
Advised water flux (m ³ /h)	5 — 18 m ³ /h			
Operating Water Temperature	10 — 40℃			
Ambient Temperature	-5 — 42℃			
Pressure for Electrolytic Cell	3.0 Bar for Sensor Holder, 4.5 Bar for Electrolysis Cell			
Cell Lifetime	Up to 10000H			

3 Installations and Connections

3.1 Materials and Tools

Tools Needed for Installation
Tape Measure
Phillips and Flathead Screwdrivers
Pliers Drill
Drill
Hacksaw
Waterproof for Pool Pipes
PVC primer and glue

3.2 Installations Diagram

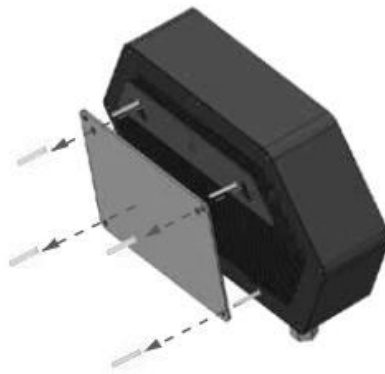


3.3 Control Unit

Note:

- The control unit is recommended for installation in the pool machine room.
- For safety and user convenience, the control unit should be installed at least 80cm above the ground.
- Don't place the control unit directly above an open chemical container or tank.
- It is suggested to place the salt chlorinator control unit at 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.
- The electrolysis cell is connected to the control unit with a **1.8 m cell cable**.

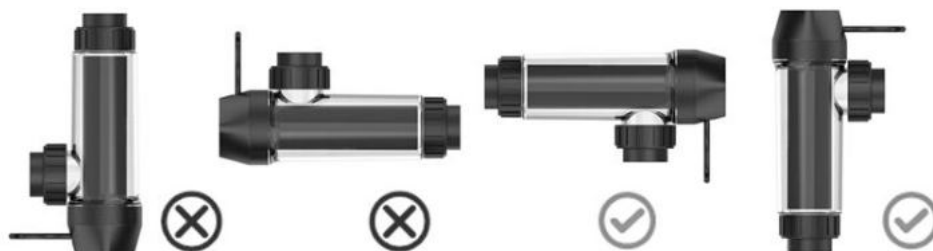
- The control unit should be installed at least 30cm higher than the electrolysis cell.
 - Connect the control unit power supply to an appropriate weatherproof power outlet/controller.
 - For easy maintenance, the control unit can be removed from the mounting surface without any extra effort.
1. Using 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. Reinstall the wall-mounted backplate to the top and bottom of the back of the control unit using the screws that were removed.
 4. Tighten all the screws, ensuring that the control unit is securely hung on the mounting surface.
 5. Check source voltage.



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 4 different cell orientations:

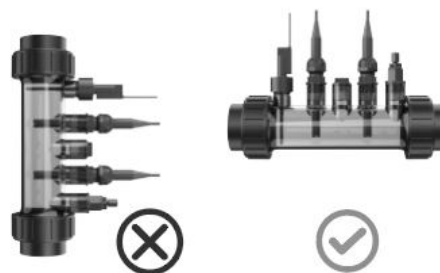


2. The power supply connection cap and the air sensor must be the highest point of the installation.
3. Ensure adequate water flow over the cell plates and the air switch.
4. Make sure the higher water level in the electrolytic cell and the power supply connection cap are the highest point.
5. The cell is supplied with 50 mm and 63 mm 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.

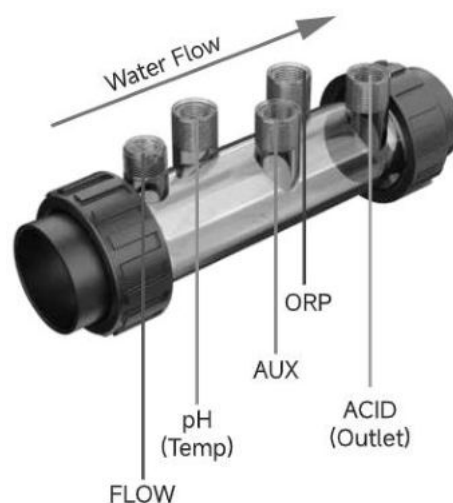
3.5 Probe Cell

Note:

- Before installation, make sure the pool pump is turned off.
 - Failing to install in the correct way may cause product faults and void the warranty.
1. Probe Cell can only be installed horizontally.

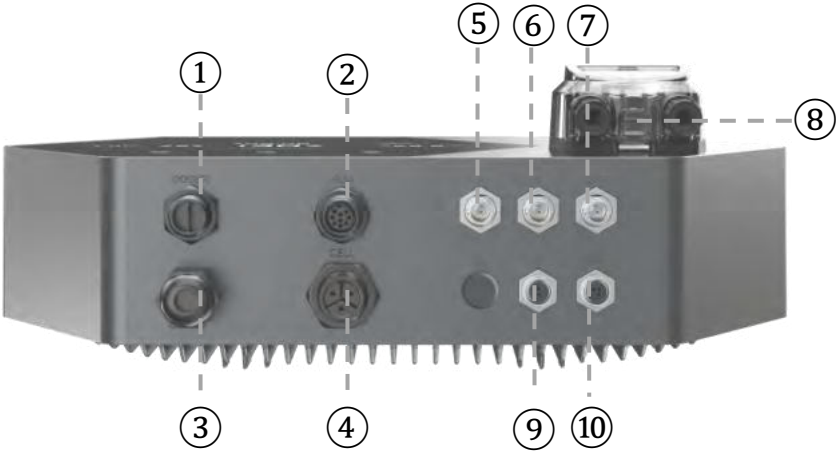


2. Flow Switch, pH Probe, ORP Probe, Check Valve (for acid) can be installed according to the recommended sequence.



3.6 Electronic Connections

3.6.1 Control Unit with In-Built pH Doser



No.	Port Name	Photo	Description	
①	Dry Contact		Connector for dry contact The safe current value < 5A, AC220-240V	
②	AUX (9 Pin)		Reserved external control (VS Pump, Pool Cover)	
③	Power Input		AC power connector (220-240V, 50/60Hz)	
④	Power Output		Terminal for cell power	
⑤	pH		BNC connector for pH sensor	
⑥	T (Water Temp)		BNC Connector for temperature sensor (Integrated with the pH sensor)	
⑦	ORP		BNC Connector for ORP sensor	
⑧	In-built pH Regulator		Left	Acid inlet
			Right	Acid outlet
⑨	FL (Flow Switch)		Connector for flow switch	
⑩	485 COM (Reserved)		1	485 - B
			2	485 - A
			3	485 - GND

3.6.2 Dry Contact Cable Connection (Water Pump)

Dry Contact Specifications:

Type: Isolated relay contact (NO/NC)

Rating: MAX 5A, 220-240V AC

Characteristics:

- No voltage/current supplied by the contact itself.
- Can switch external AC loads up to 5A at 220-240V.

Water Pump Control Logic via Dry Contact:

The operating states and their outcomes are clearly defined in the following logic table:

Chlorinator State / Screen Displayed	Dry Contact Status	Water Pump Action
Chlorinator is OFF	Disconnected	Turned OFF
Setting Screen (after shutdown)	Disconnected	Turned OFF
HOME Screen	Connected	Turned ON
Calibration Screen	Connected	Turned ON

Our product will be equipped with a Dry Contact Cable (3 m). Wire the cable as shown in the diagram below:



- ① Remove the outer black insulation from the power supply cable of the Water Pump that will be connected to the Salt Chlorinator. Three wires inside are exposed (green, blue, brown).
- ② Disconnect the three wires of the water pump power supply cable.
- ③ 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.

Or 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.

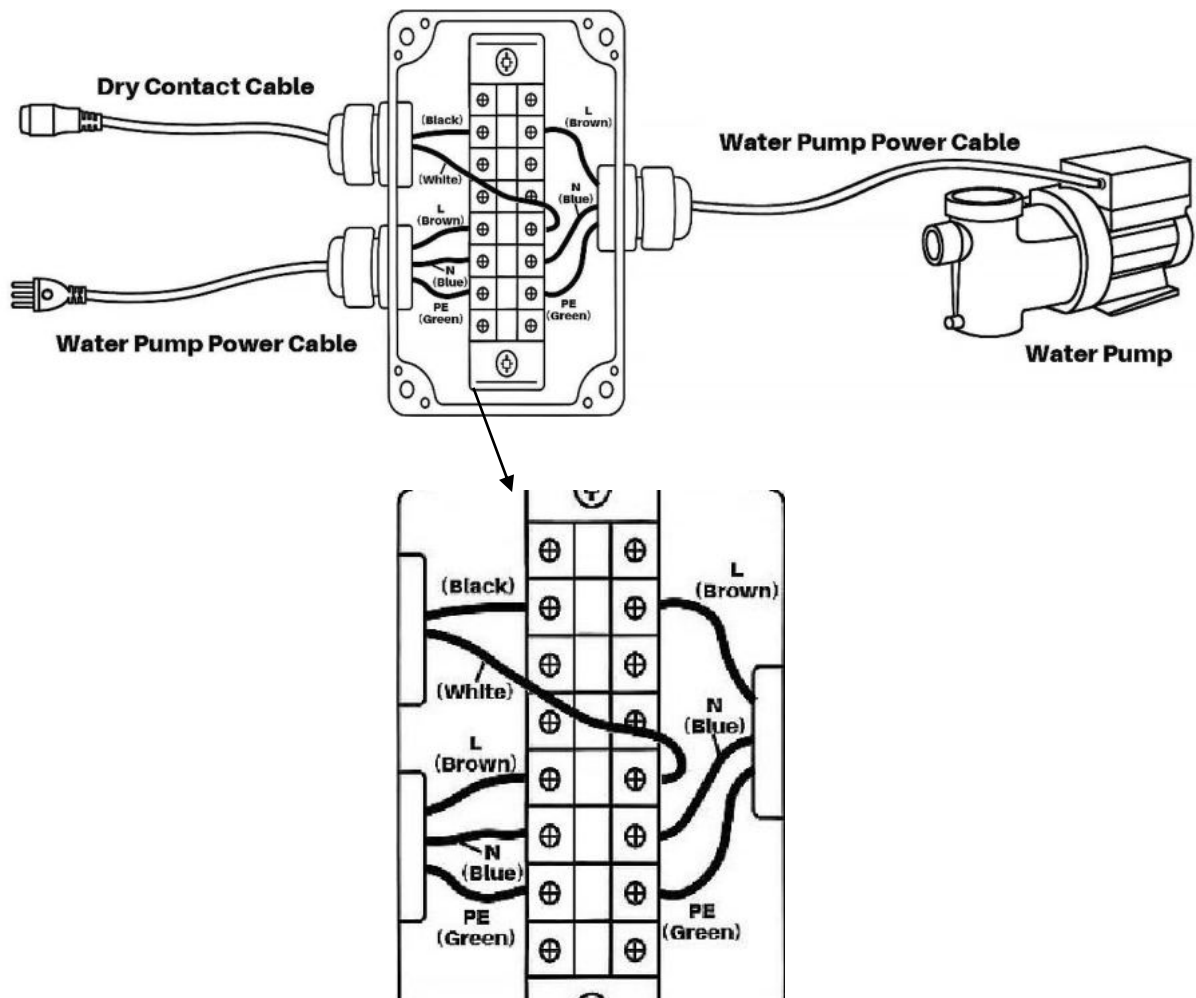
- ④ Connect the Wires: Inside the junction box, connect the wires using either screw terminals or other appropriate connectors (such as wire nuts or crimp connectors).

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

- ⑤ 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.

- ⑥ Test the Connection:

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.

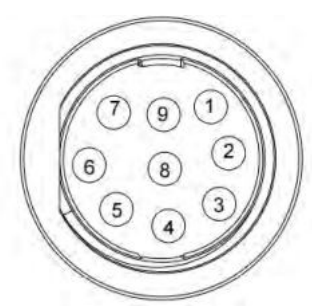


NOTE:

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

3.6.3 AUX Device Connection

Our product is equipped with a 9-pin connector for aux devices like the VS pump and pool cover, as shown in the diagram below:



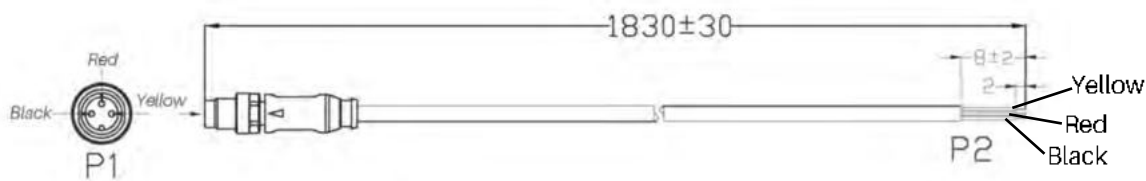
Number	Wire Color	Description
①	Black	VS Pump stop (off)
②	Orange	VS Pump Low (S1)
③	Red	VS Pump Medium (S2)
④	Blue	VS Pump High (S3)
⑤	White	VS Pump Com
⑥	Grey	AUX (DC5V output)
⑦	Brown	AUX
⑧	Green	Pool cover
⑨	Yellow	Pool cover GND

3.6.4 RS485 Cable Connection

According to different configurations, RS485 cables can be selected. The intelligent control system of the Salt Chlorinator operates via RS485 communication.



It uses a 3-pin RS485 cable for data transmission. One end of the cable (P1) is factory-connected to the 485-COM port of the Salt Chlorinator, while the other end (P2) must be connected to the RS-485 terminal of the external control device.



Each wire core is color-coded to ensure correct and secure terminal connections, as shown in the table below:

Communication Wiring Table

Wire Color	Conn.
Yellow	GND
Red	B
Black	A

4 Pool Water Preparation

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

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

4.1 Adding Salt

Add the salt several hours before turning on the chlorinator, or, if possible, a day before. Ensure that the recommended amount of salt is used.

Measure the salt content 6 to 8 hours after adding the salt to the swimming pool.

NOTE:

- If the pool water is not fresh or is likely 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. 1.4times 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 m³ 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 3.0-5.0 g/l (recommended 3g/L)
Free chlorine	Free chlorine 1.0 to 3.0 ppm
pH	pH 7.2 to 7.6
Cyanuric acid (stabilizer)	20 to 30 ppm max, 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



Description	Icon
Real-time pH	0.0 pH
Real-time water temperature (°C/°F)	00 °F 00 °C
Real-time chlorine production	100 %
Real-time ORP *display "---" when the value exceeds 999mV	rX 00.0 mV
Main display area: ● pool volume (m³) ● Boost mode countdown ● Local time, timer 1 and 2 ● acid adding amount (ml/day) ● real-time chlorine production (%)	TIMER ON OFF 1 2 WAIT 00:00 m³ ml/day

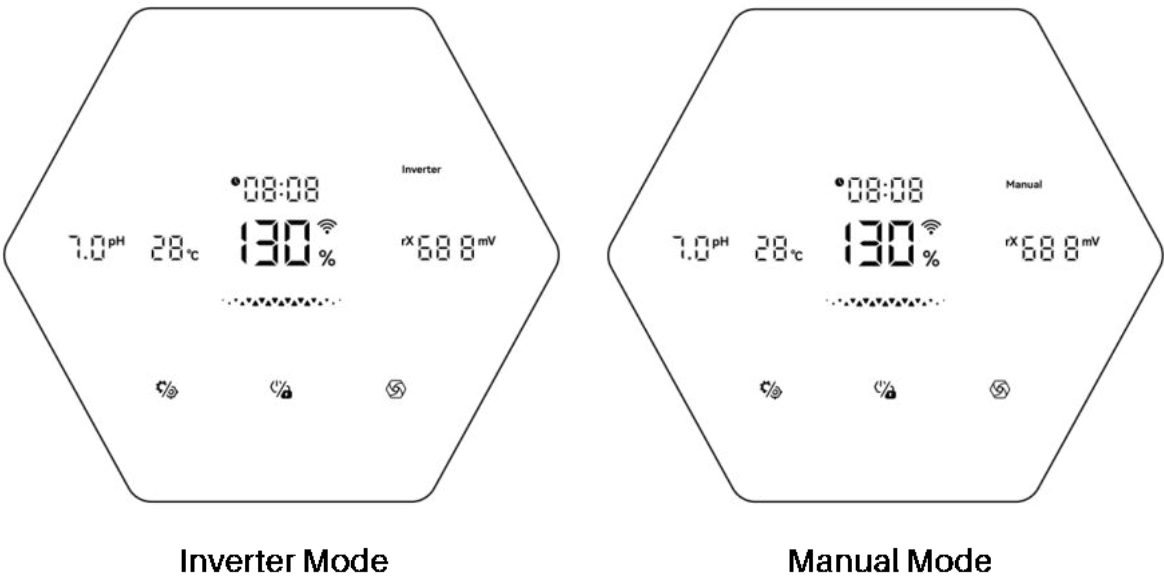
Chlorine Production Mode: Inverter Mode	Inverter
Chlorine Production Mode: Manual Mode	Manual
Chlorine Production Mode: Auto pH Mode	Auto pH
Error codes	
Warnings	 ADD SALT ACID TANK NO FLOW AIR IN CELL CALIBRATE
LED Indicator ● Blue: Suitable for swimming ● Red: Unstable Water condition /abnormal ORP or pH value (LED keep blinking) * Only available with ORP probe, pH+Temp probe	
Chlorine Production Mode Select / Boost	
Tuning up	
Settings/Calibration	
Tuning down	
Power/Lock	

5.2 Chlorine Production Mode Introduction

The chlorinator can be configured for 2 different modes, depending on chlorine production. And the home screens in these 2 different modes are shown below.

Hardware Options		ORP+pH+Doser
Selectable Chlorine Production Mode	Inverter Mode	√
	Manual Mode	√

5.2.1 Home Screen



5.3 LED Indicator Introduction

The LED Indicator of each status is shown as follows:

Status		LED Indicator
Real-time Water quality Display	Water Quality	Blue: Suitable for swimming
	1.Unstable water condition 2.Abnormal ORP or pH value * Only available with ORP probe or pH/Temp probe	1. Red: Unstable water condition /abnormal 2. ORP value, pH value keeps blinking
Calibration	1、ORP Calibration 2、pH Calibration	1. In operation: LED turn blue and gradually dimming 2. Success: Long beeper sounds 3. Unsuccess: LED blinking, beeper sounds 2 times and turns back to home screen.

5.4 Basic Commands and Functions

Command Keys	Function
	1. Power ON: Hold for 3 seconds initially. 2. Power OFF: Tap on home screen. 3. Screen Lock/Unlock: Hold for 3 seconds. Note: The auto lock function will be activated after 2 minutes without any operation.
	1. Enter BOOST mode: Tap 2. Exit BOOST mode: Hold for 3 seconds
	2. Enter Setting Menu Tap 3. Enter Calibration Process: Hold for 3 seconds 4. Go to Next Step: Tap 5. Back to Home Screen: Hold for 3 seconds

	Increase number/Tuning Up: Tap.
	Decrease number/Tuning Down: Tap.

5.4.1 Start Up

① It is recommended to set the pool volume 【P2】 and local time 【P3】 , Polarity reversal interval 【P4】 first. (Refer to Pt 5.4.7)

- When switching on the control unit, it will show the home screen.

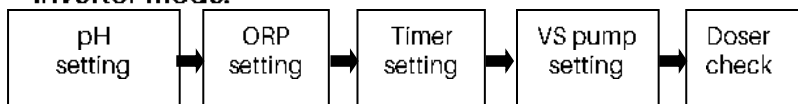
② Chlorine Production Mode Selection

- On the home screen, hold to  and  to enter the Chlorine Production Mode menu.
- tapping  or  to select the Chlorine Production Mode. (Inverter, Manual)
- Tap  back to home screen.

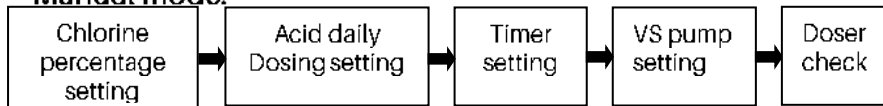
Note: When the Chlorinator is switched to Manual Mode , the doser will rotate for 30 seconds automatically.

Tap  to enter Setting Process The following Start Up steps :

Inverter mode:



Manual mode:



③ ORP Setpoint Setting

- The default digit display on the pad screen is "700mV".
- When the number is blinking, it can be tuned from 200 to 850 mV, in increments of 10, by tapping  or  . Holding the button can accelerate the tuning speed in increments of 20.
- Confirm the ORP setpoint setting by tapping  , and enter the next step: pH Setpoint setting.

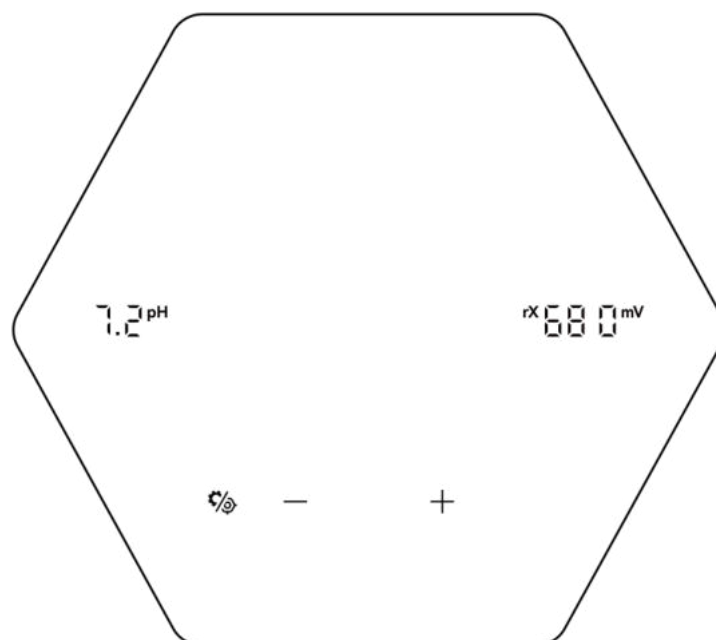
④ pH Setpoint Setting

- The default digit display on the pad screen is "7.2".
- When the number is blinking, it can be tuned from 6.5 to 8.5, in increments of 0.1, by

tapping **+** or **-**. Hold the button can accelerate the tuning speed.

- Tap  to confirm and enter next step.

Note: If P5 is set to 0, Alarm A1 (Acid Tank) and E2 (pH Setpoint not Reached) will be turned off.

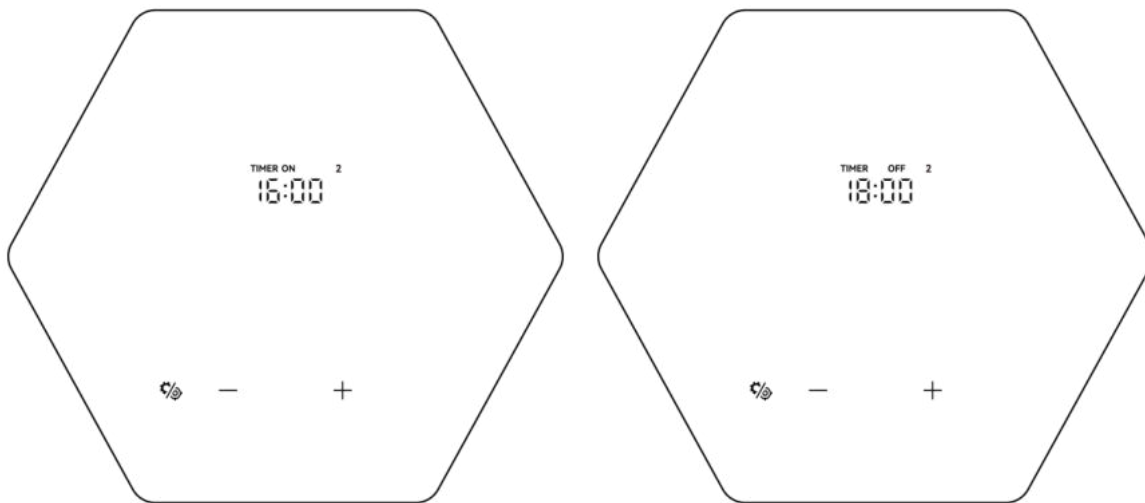


⑤ Timer Setting

- There are 2 timers in total, named **1** and **2**.
- For Each timer, When the **TIMER ON** is Blinking, tap **+** or **-** to select **TIMER ON** or **TIMER OFF**, which means switching on or off the single timer.

Step 1	Step 2
Select TIMER ON	①When TIMER ON and 1 lights up, set hours of the first timer by tapping + and -, save the parameter by tapping , then set and save minutes in the same way. ②When TIMER ON setting finished, TIMER OFF light up, set the end time of the 1 timer in the same way. ③Tap  save timer 1 and skip to next timer settings 2.
Select TIMER OFF	① No need to set the timer 1, tap  and skip to timer 2.

- Tapping  to confirm Timer settings and return to home screen.

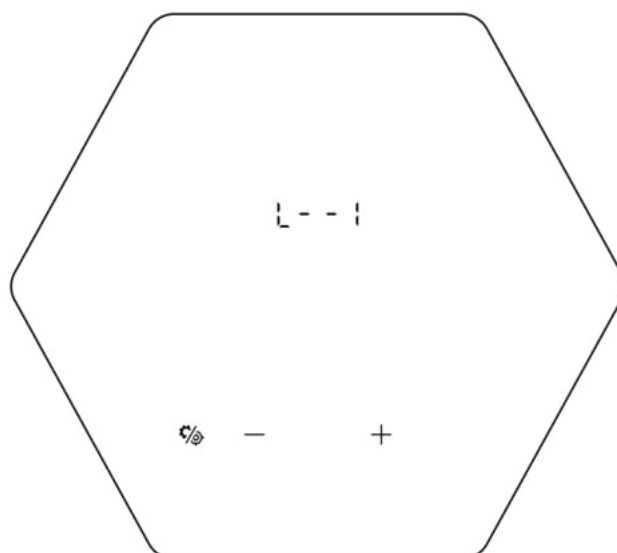


⑥ Variable Speed Pump Setting (VS Pump)

- Before setting VS Pump speed, make sure **AUX** is connected to VS Pump. (pt 3.6.3)
- "L-" light on, tap  or  to select Speed

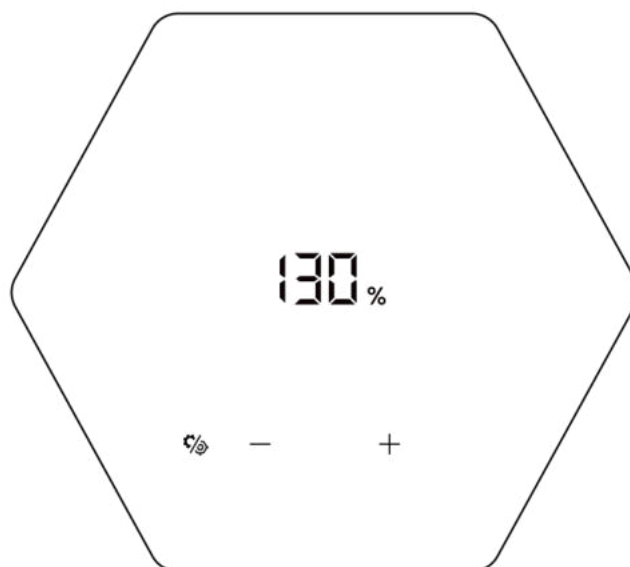
VS Pump Mode	Function
L - 0	VS Pump stop
L - 1	VS Pump operate in low speed
L - 2	VS Pump operate in medium speed
L - 3	VS Pump operate in high speed

- Tap  to confirm and enter next step.



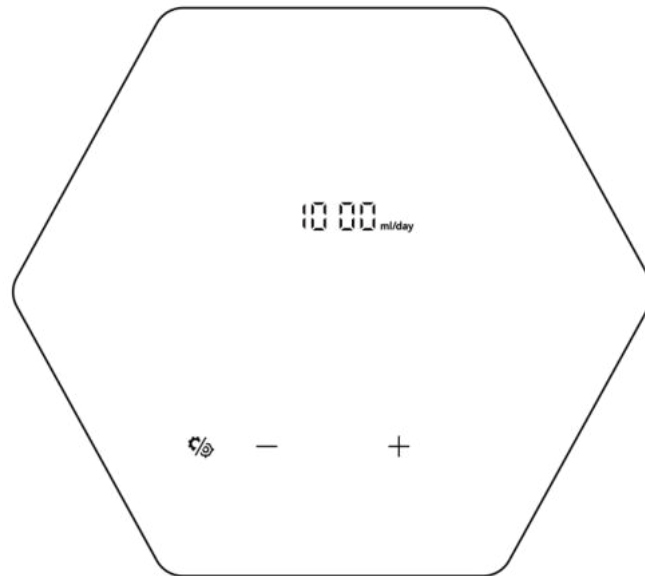
⑦ Chlorine Production Setting (Manual Mode)

- The default digit display on the pad screen is "130%".
- When the number is blinking, it can be tuned from 0 to 130, in increments of 5, by tapping $+$ or $-$. Hold the button can accelerate the tuning speed.
- Tap  to confirm and enter next step.



⑧ pH Dosing Volume Setting (Only Manual Mode)

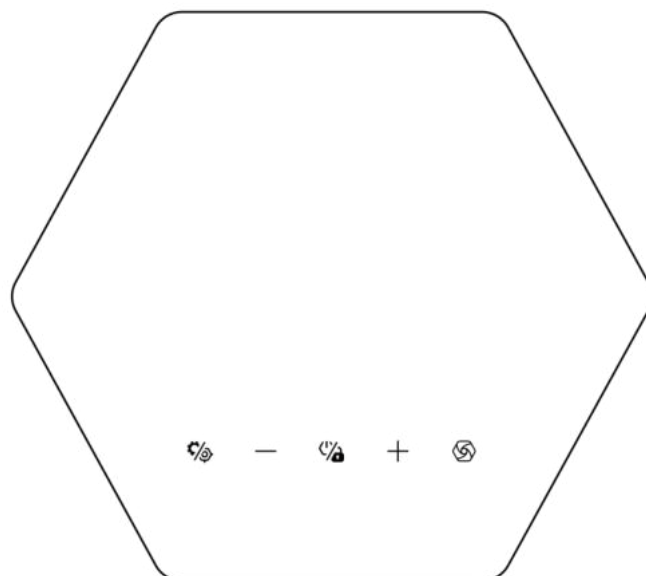
- Actual pH Dosing Volume Setting: range 0-99900ml/d. On the pad screen, the digit display is 0-9990ml/d.
- The default digit display on the pad screen is "50", it means that the real pH Dosing Volume that is 500 ml/day.
- When the number is blinking, it can be tuned from 0 to 9990, in increments of 10, by tapping $+$ or $-$. Hold the button can accelerate the tuning speed.
- Tap  to next step.



⑨ Doser Check

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.
- On the home screen, tap , turn off the Chlorinator (**Power OFF**).



- Hold  and  for 3 seconds, then the long beeper sounds.
- The Doser will rotate automatically for 30s.
- Observe whether the acid solution is filled in the PE acid tubes and the peristaltic tube.
- Acid solution is pushed out to the pool water through the Doser tube. The Doser is ready.
- Tap , turn on the Chlorinator (**Power ON**).

5.4.2 BOOST Performance

- ① **Boost Mode Switch ON:** tap  to enter Boost mode.

The device will run at 130% power for 24 hours. The real-time production and Boost countdown will be displayed.

- ② **Boost Mode Switch OFF:** Hold  for 3 seconds.



NOTE:

- BOOST mode is suggested to be activated when chlorine is urgently needed.
- While BOOST mode is on, the  is deactivated.
- If the chlorinator is powered off with BOOST mode turned on, the BOOST countdown refreshes when the chlorinator is turned on again.
- When the BOOST mode terminates or stops, production continues according to the previous settings.
- In Boost mode, when the ORP is higher than the set value, Chlorine Production still keeps running on 130%. Pool Cover mode

NOTE:

- When the pool cover is detected, low chlorine production will be activated automatically, with  icon displayed on the screen.
- Pool cover protection can be set 0-30% 【PA】, in increments of 10 (pt 5.4.7).
- For example, if the current chlorine production percentage is above 30%, chlorine production will be reduced to 30%; if it is below 30%, it will remain unchanged.
- When the pool cover is not detected, the Cover is exited and the  is not displayed. Normal electrolysis is resumed.

5.4.3 Recommended Settings

Tap Setting  to enter settings in accordance with the following order:

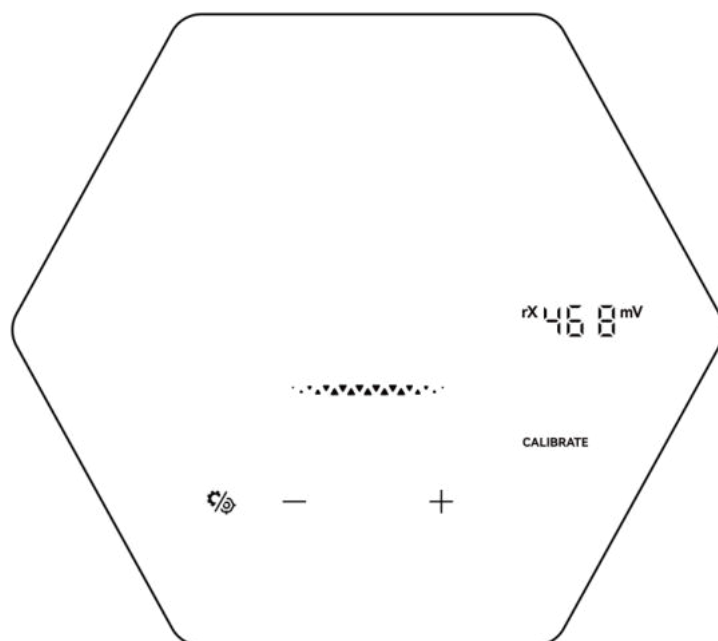
- 1) pH Target Setting: range 6.5-8.5, the recommended setpoint is in: 7.2~7.6
- 2) ORP Target Value setting: range 200-850mV (Inverter Mode)
 - Sug'td ORP Winter setting: ORP 650mV.
 - Sug'td ORP summer setting: ORP 700mV.
 - If there is a free chlorine probe or other free chlorine monitoring instrument, adjust your pool water (Free chlorine 1.0 to 3.0 ppm), then look at the ORP value on the chlorinator screen and memorize this level as the setpoint.
- 3) Chlorine Production: 0-130% (Auto pH Mode / Manual Mode).
- 4) pH Dosing Volume Setting: range 0-9990 (Manual Mode), corresponding to 0-99900 ml/day.
Hydrochloric Acid: $\leq 12.5\%$ concentration.
- 5) Timer settings: range 0:00-24:00 (24hr clock).

5.4.4 Calibration

① ORP Calibration (Inverter Mode)

Hold  for 3 seconds to enter the calibration process.

- When the default digit display ORP value 468mv flashing, tap  or  to adjust the ORP calibration buffer type (range from 200-600mv).
- Place the ORP probe in the 468 mV buffer solution, ensuring the head of the probe is fully immersed.
- Calibration completes when the beeper sounds, and then enter pH calibration.

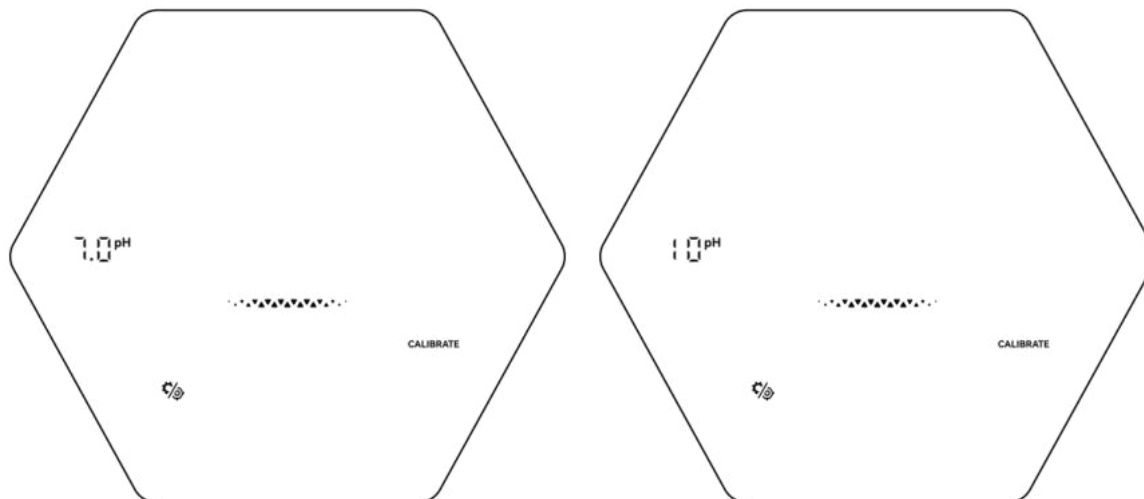


NOTE:

- ORP calibration values range from 200-600mv, step size is 1mv, Hold the button can accelerate the tuning speed.
- This step can also be skipped by tapping .
- If the ORP probe is soaked in the wrong solution, the blue LED indicator will continue to blink until the probe is handled properly. Otherwise, it will return to the home screen 10 minutes later
- Before calibrating or replacing the probe, the electrolytic cell valve must be turned off to prevent leakage.

② pH 7.0 and pH 10.0 Calibration (Inverter Mode)

- On the processing screen, the default digit display “pH 7.0”, and the blue light is blinking.
- Place the pH probe in the pH 7.0 buffer solution, ensuring the head of the probe is fully immersed.
- Calibration completes when the beeper sounds, and then enter pH 10.0 calibration.
- Remember to clean the pH probe before pH 10.0 calibration.
- On the processing screen, the default digit display is “pH 10.0”.
- Place the pH probe in the pH 10.0 buffer solution, ensuring the head of the probe is fully immersed.
- Calibration completes when the beeper sounds, and then it enters the pool size setting.



NOTE:

- If the ORP probe is soaked in the wrong solution, the blue LED indicator will continue to blink until the probe is handled properly. Otherwise, it will return to the home screen 10 minutes later
- This step can also be skipped by tapping .
- Before calibrating or replacing the probe, the electrolytic cell valve must be turned off to prevent leakage.
- The Default pH Calibration Mode is “pH 7 and pH 10”; you can choose a different pH Calibration Mode, refer to your Calibration solution type. **【P0 setting】** (Pt 5.4.7)

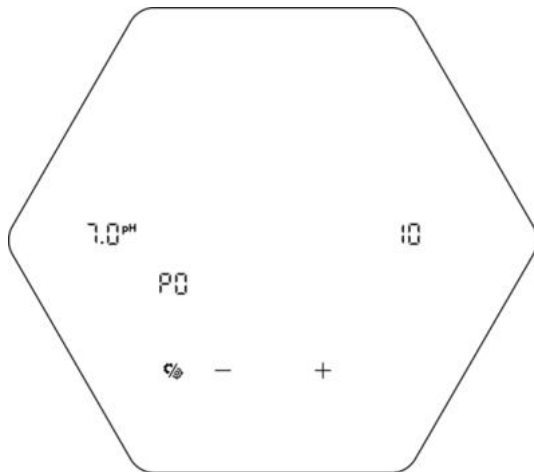
5.4.5 Combination Commands and Operation

Combinations	Function
On the home screen, hold  and  for 3 seconds	Chlorine Production Mode Selection
On the home screen, tap  to enter settings, hold  and  for 3 seconds	Networking configuration (Wi-Fi)
When the chlorinator is turned off, Hold  and  for 3 seconds	Doser Check
When the chlorinator is turned off, hold  for 3 seconds	System settings
On the home screen, tap  to enter settings, Hold  and  for 3 seconds	Restore factory settings

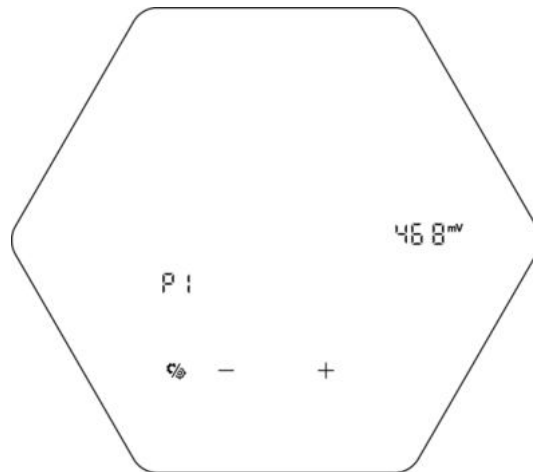
5.4.6 System Settings

No	Settings Page Name	Option
P0	pH Calibration Mode	1: PH4、PH7 2: PH4、PH9.21 3: PH4、PH10 4: PH7、PH9.21 5: PH7、PH10 (Default)
P1	ORP calibration values	Range from 200-600mv, 468mv (Default)
P2	Pool Volume	Range from 0-100m3 , 40 m3 (Default)
P3	Local time	00:00-23:59 Local time will be refreshed when Wi-Fi is connected
P4	Polarity Reversal Interval	2h, 4h (Default) , 6h
P5	A1: ACID TANK E2: pH setpoint not reached	0: Off 1: On (Default)
P6	A2: ADD SALT	0: Off 1: On (Default)
P7	EA: ORP setpoint not reached	0: Off (Default) 1: On
P8	A5: Reminder for Probe Calibration (Each 180days)	0: Off (Default) 1: On ● It is very important to calibrate the pH probe at the beginning of each season of use, upon returning to service, and after each probe replacement.
P9	Electrode plates life	● Show electrode plates life (hours) ● Hold  and  for 3 seconds to reset.
PA	Pool cover protection	Range from 0-30%, 30% (Default)

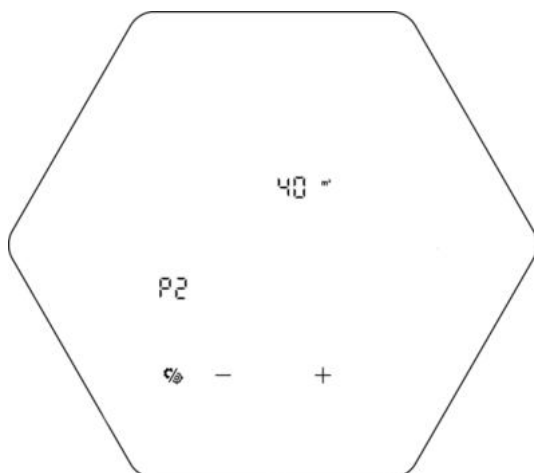
- ① In the home screen, Tap  , turn off the Chlorinator(Power OFF).
- ② Then hold  to enter System Settings.
- ③ Tap  or  to select options, Tap  skip to the next Settings Page.



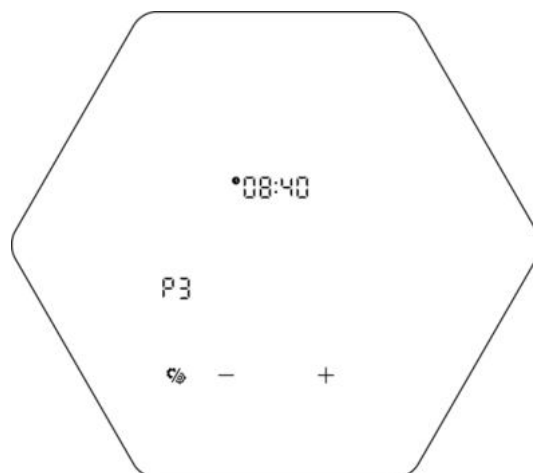
pH Calibration Mode (P0)



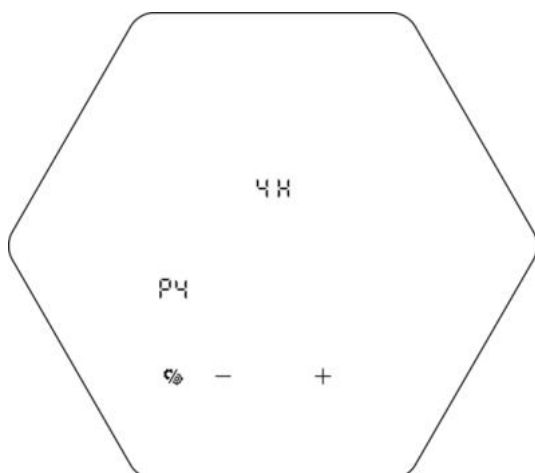
ORP calibration values (P1)



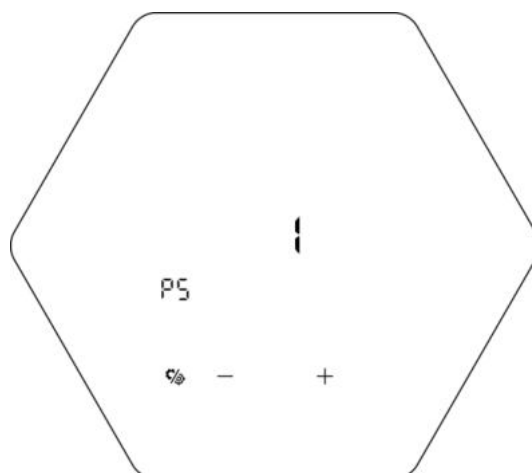
Pool Volume (P2)



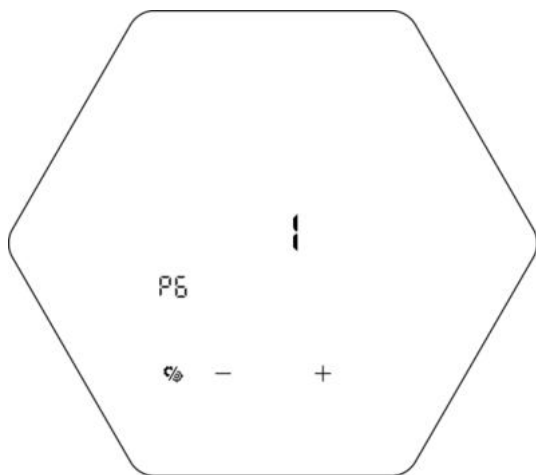
Local time (P3)



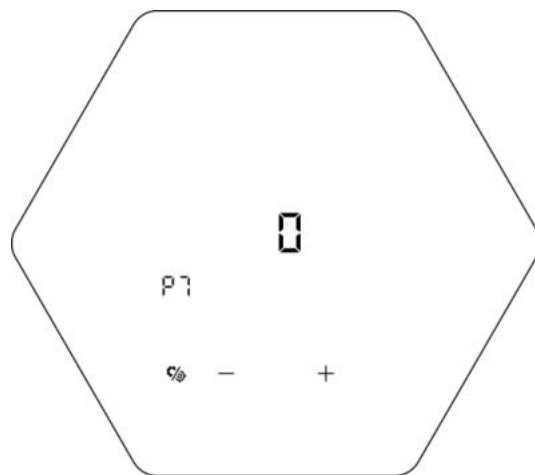
Polarity Reversal Interval (P4)



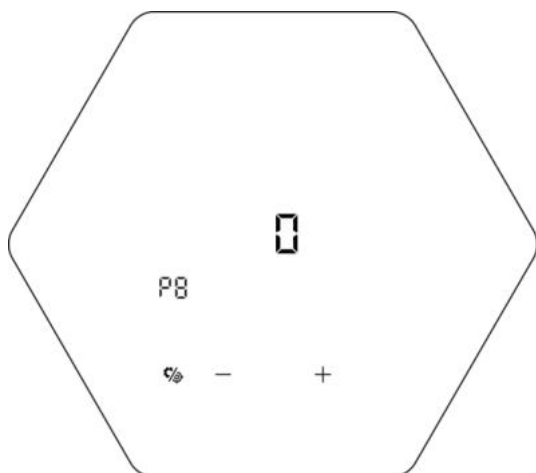
A1 + E2 alarm (P5)



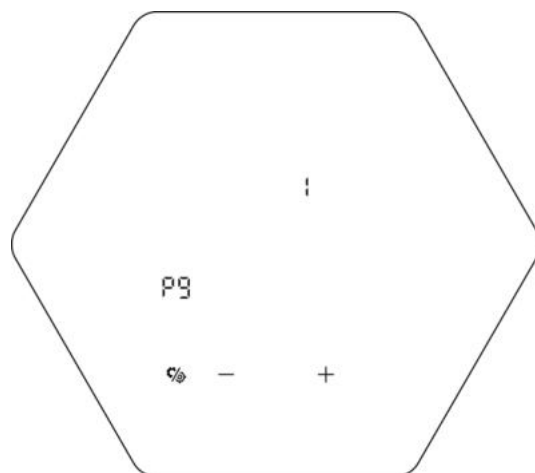
A2 alarm (P6)



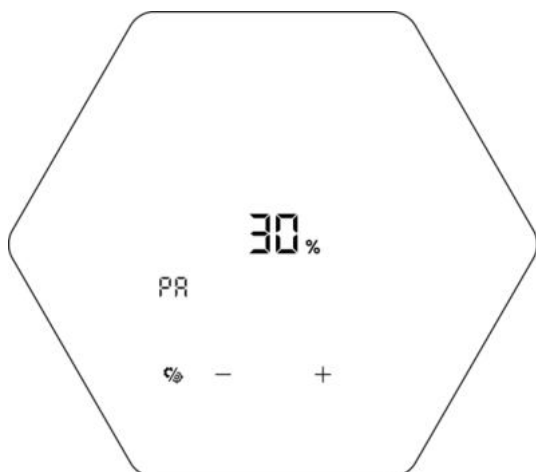
EA alarm (P7)



A5 alarm (P8)



Electrode plates life (P9)



Pool cover protection (PA)

5.4.7 Restore Factory Settings

- ④ When switching on the control unit, on the home screen, tap  to enter the Setting Process.
- ⑤ Hold  and  for 3 seconds, hearing the long beeper and the chlorinator is restored to factory settings, the full screen is lighted up for 2 seconds.
- ⑥ Then turn back to the main screen automatically.



Parameter	Default	Related Mode
pH Setpoint	7.2	Inverter
ORP Setpoint	700mv	Inverter
Chlorine Production	100%	Manual
pH Dosing Volume	50	Manual
Timer 1 ON time	00: 00	
Timer 1 OFF time	00: 00	
Timer 2 ON time	00: 00	
Timer 2 OFF time	00: 00	
VS Pump speed	L - 1	
System Setting	Default	Mode
【P0】 pH Calibration Mode	5: PH7.0、PH10	Inverter
【P1】 ORP calibration values	468	Inverter
【P2】 Pool Volume	40	
【P3】 Local time	00: 00	
【P4】 Polarity Reversal Interval	4	
【P5】 A1: ACID TANK E2: pH setpoint not reached	1	
【P6】 A2: ADD SALT EC: Low salt Protection	1	Inverter
【P7】 EA: ORP setpoint not reached	0	Inverter
【P8】 A5: Reminder for Probe Calibration (Each 180days)	0	
【P9】 Electrode plates life	0	
【PA】 Pool cover protection	30%	

6. 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 void the warranty.

Calculate the swimming pool's volume and add 3-5 Kg of salt per cubic meter. The suggested salinity is 3-5 g/L. Make sure the chlorinator is disconnected throughout the process, and turn on the filtration system to run for at least 24 hours after the operation.



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

The salt-dissolving process can be accelerated with 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 be reduced over time due to the 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 in the drain inlet.

7 Maintenance

7.1 Cleaning the Electrodes

The smart polarity inversion system is designed to prevent electrode plate corrosion and scaling (Default setting = 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 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 it 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.

7.2 Maintenance of the ORP Probe

7.2.1 Cleaning the Probe

Under any circumstances, cleaning every 6 months is always advisable. Generally, impurities and grease on the electrodes may also cause measurement errors.

The cleaning steps are as follows:

- ① Before calibrating or replacing the probe, the valve of the electrolytic cell needs to be turned off to avoid leakage.
- ② Turn off the chlorinator, unscrew the probe from the holder.
- ③ Thoroughly clean the probe in pure, preferably distilled water. Shake the probe to remove the water. Use a cotton or a paper napkin if necessary.
- ④ Turn on the control unit, insert the probe into the standard calibration solution (default 468mV), and complete the calibration process.
- ⑤ **It is necessary to carry out a calibration of the ORP probe at the beginning of each season of use when returning to service, and after each probe replacement.**

7.2.2 Storage

If pools are shut down during the winter season, take the probe out of the cell and store it in the probe storage bin, filled with a storage solution, at a temperature between +5 and +30 °C. Other storage methods are not recommended.

NOTE: Never leave the probe outside. If the probe has been dried for a time, it can be regenerated with the standard calibration solution.

7.3 Maintenance of the pH Probe

7.3.1 Maintenance

It is recommended to clean and check the probe every 6 months. Generally, impurities and grease on the electrodes may also cause measurement errors.

The cleaning steps are as follows:

- ① Before calibrating or replacing the probe, the valve of the electrolytic cell needs to be turned off to avoid leakage.
- ② Turn off the chlorinator, unscrew the probe from the holder.
- ③ Stir the probe in a glass of water in which a spoonful of detergent has been dissolved.
- ④ Wash it under the tap and leave it for a few hours in a glass of water in which 1 cm³ of hydrochloric acid has been added.
- ⑤ Thoroughly clean the probe in pure water, and shake the probe to remove the water. Use a cotton or a paper napkin if necessary.
- ⑥ Turn on the control unit, recalibrate the probe again.
- ⑦ It is necessary to carry out a calibration of the pH probe at the beginning of each season of use when returning to service, and after each probe replacement.

7.3.2 Storage

If pools are shut down during the winter season, take the probe out of the cell and store it in the probe storage bin, filled with a storage solution, at a temperature between +5 and +30 °C. Other storage methods are not recommended.

NOTE:

- If well-maintained, a probe can last for two or three years. When the probe is exposed to air, the original cap should be placed on it, or it should be submerged in a glass of water.
- If a probe has been left to dry, it can be regenerated by leaving it in a glass of water for 12 hours, preferably adding a few drops of hydrochloric acid.

7.4 Maintenance of the Doser

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

- ① Make sure the Doser hoses and PE acid tubes are connected and fitted tightly.
- ② Check the acid tank's fluid level, and make sure the PE acid tube is connected to the suction valve in the tank.
- ③ Tap  turn off the Chlorinator (**Power OFF**).
- ④ Hold  and  for 3 seconds, then the long beeper sounds.
- ⑤ The Doser will rotate automatically for 30 seconds.
- ⑥ Observe whether the acid solution is filled in the PE acid tubes and the peristaltic tube.
- ⑦ Acid solution is pushed out to the pool water through the Doser tube; the Doser is ready.
- ⑧ Tap , turn on the Chlorinator (**Power ON**).

NOTE:

- **Inverter Mode:** the Doser will rotate every 3 minutes, with 80ml of acid injected each rotation (30s duration).
- **Manual Mode:** The Doser will rotate according to the pH Dosing Volume Setting.
The doser roller will rotate for 30 seconds and inject approximately 80 mL of acid each time. Injection frequency is based on pH dosing volume setting (24hours) , and the chlorinator operate time in ever 24hours
- When the actual pH is equal to or below the pH setpoint, the Doser will stop spinning.
- When pH probe detection fails or the E3 (no flow) alarm displays, the Doser will stop spinning.

8 Winterizing and Low Temp Protection

The chlorinator has low temperature protection to limit chlorine production (%) under poor operating conditions, such as cold water (winter).

Active winterizing = filtering and the chlorinator is operational in winter:

Passive winterizing = lower water level and drained piping: leave the electrode plates dry in their cell with its isolation valves open.

Low Temperature Protection:

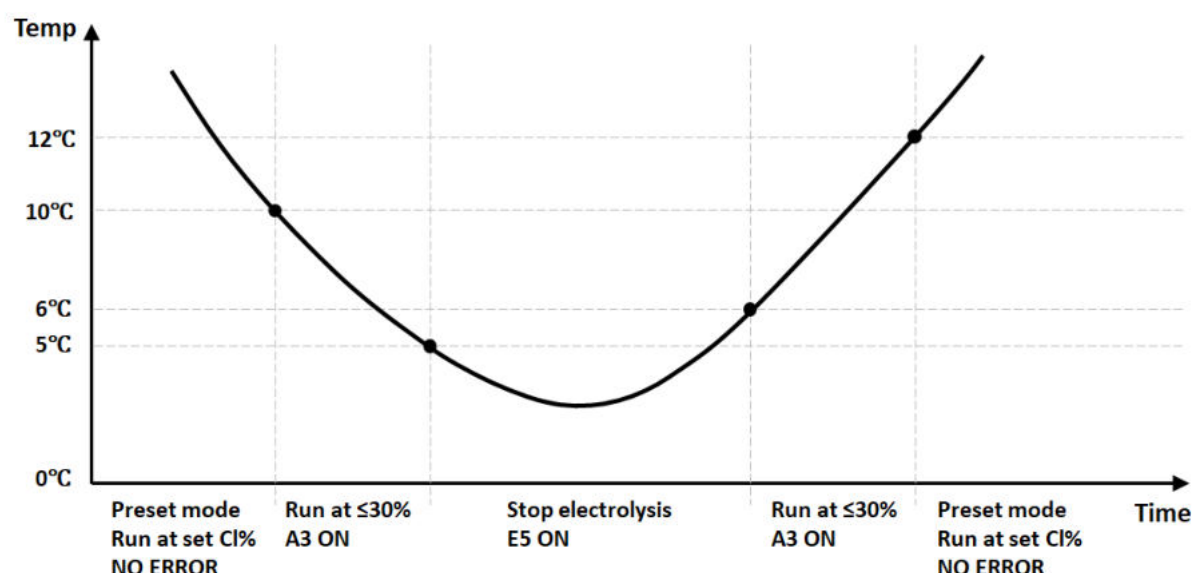
When the water temperature drops:

- Water temp $\geq 10^{\circ}\text{C}$: Chlorinator running in the preset mode (Inverter).
- $5^{\circ}\text{C} \leq \text{Water temp} < 10^{\circ}\text{C}$: Chlorinator running, production capped at 30%, A3 is on.
- Water temp $< 5^{\circ}\text{C}$: Electrolysis off. E5 is on.

When the water temperature rises:

- After E5 is on, Water temp $< 6^{\circ}\text{C}$, electrolysis keeps off.
- $6^{\circ}\text{C} \leq \text{Water temp} \leq 12^{\circ}\text{C}$: Chlorinator running, capped at 30%, E5 off, A3 turns on.
- Water temp $> 12^{\circ}\text{C}$: A3 off; Chlorinator recovers and continues running in the preset mode.

Example chart below: temp. falls then rises.



Note:

- A temperature sensor must be installed if you need low-temperature protection.

9 Overheat Protection

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

High Temperature (Power pack)	$70^{\circ}\text{C} \leq \text{Temperature} \leq 80^{\circ}\text{C}$	A. A4 occurred. Electrolytic output limited to 30%
Over Temperature (Power pack)	Temperature $> 80^{\circ}\text{C}$	A. E4 occurred and stop electrolysis B. Temperature $< 68^{\circ}\text{C}$, E4 and A4 off, electrolysis starts again.

10 Wi-Fi Instruction and iGarden App

10.1 Start-Up

10.1.1 Download App on Smartphone

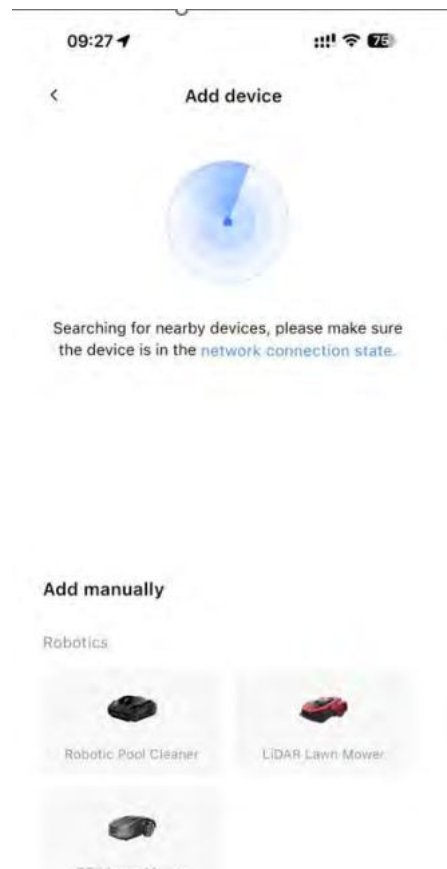
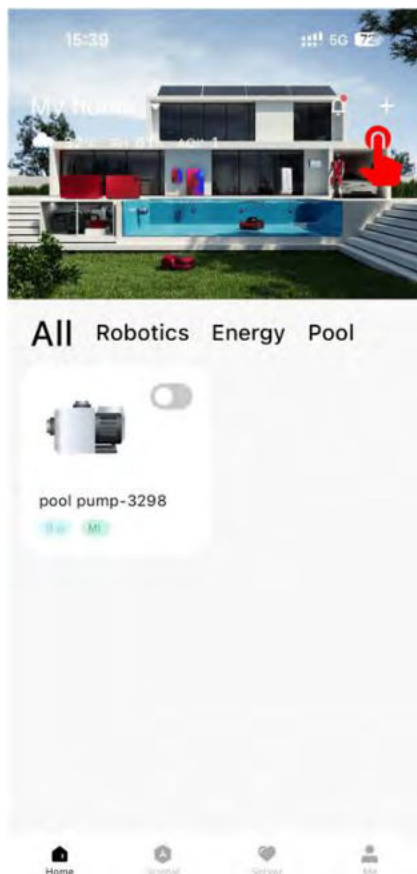
"iGarden" app is available on App Store and Google Play.
Please scan the following QR code to download:



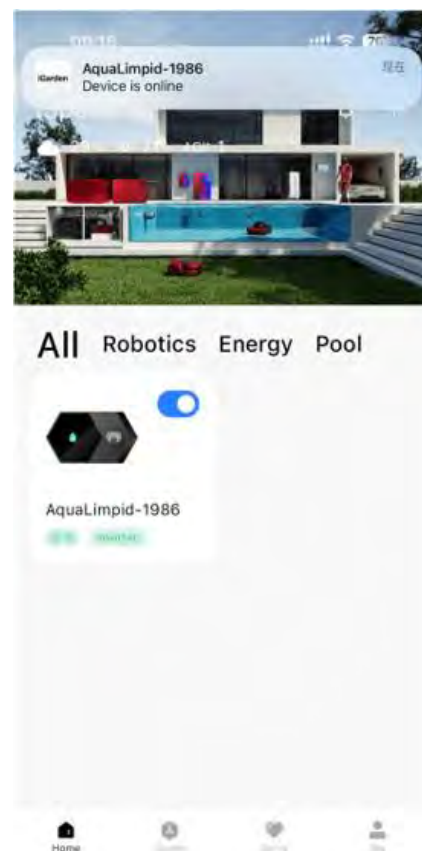
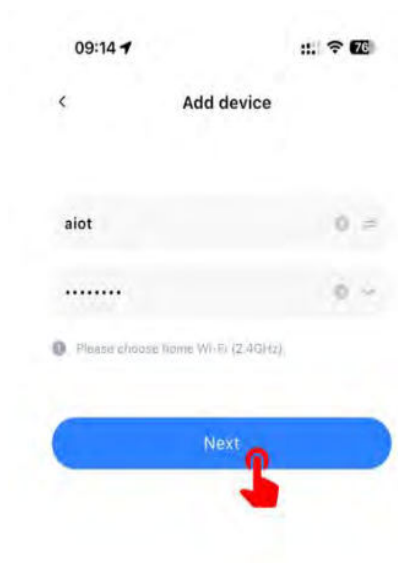
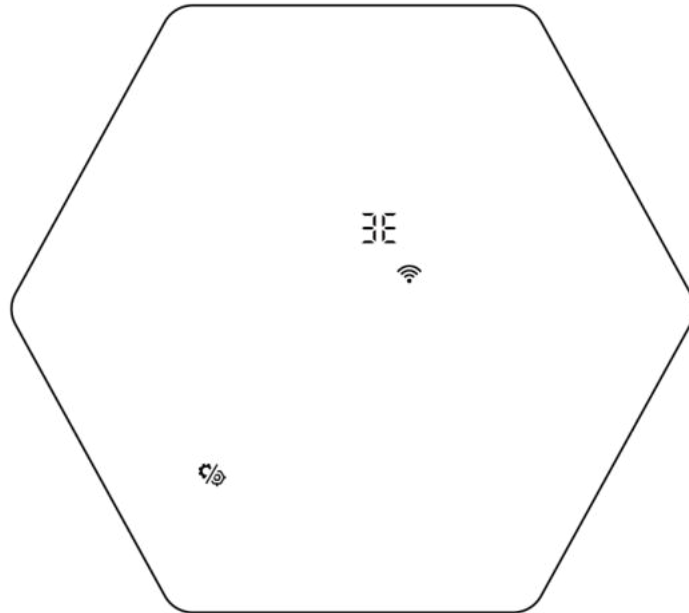
10.2 Networking Configuration

10.2.1 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 on "Add Device".

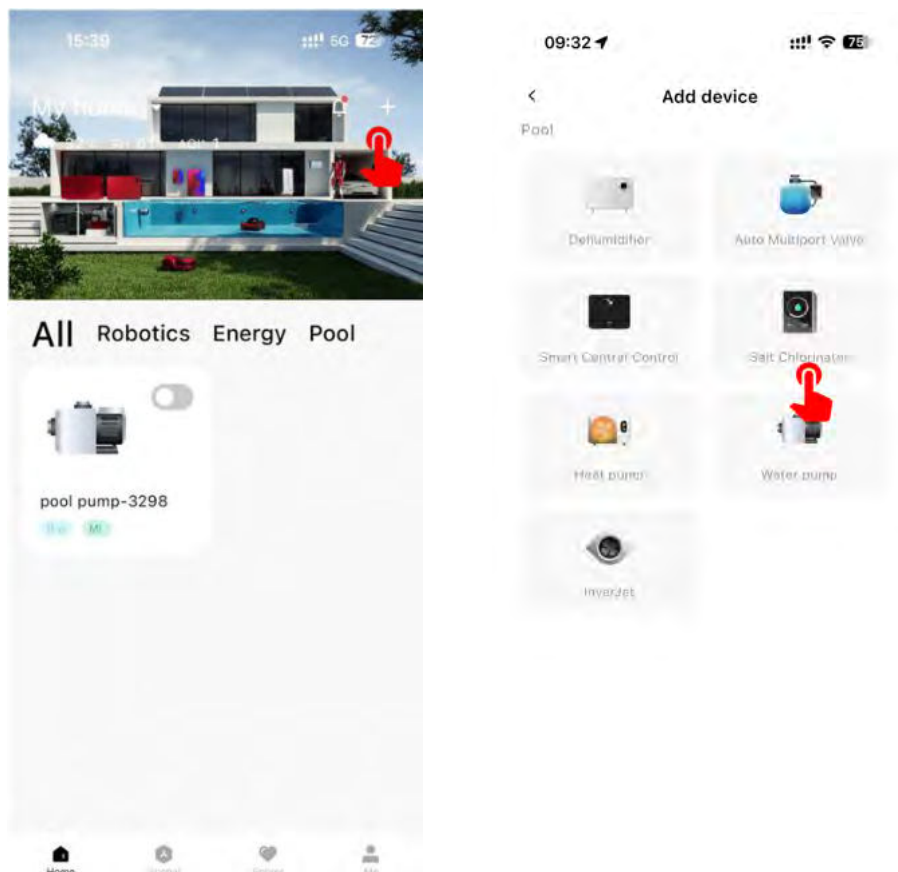


- ③ When the chlorinator is on the home screen, tap  to enter settings, hold  and  for 3 seconds, when an intermittent beep occurs, and enter network connection mode **【3E】** .
- ④ When your phone finds the chlorinator, it will be displayed on your phone. Tap "Next", enter the wifi password, and tap "Next". The device will then be automatically connected to the App.

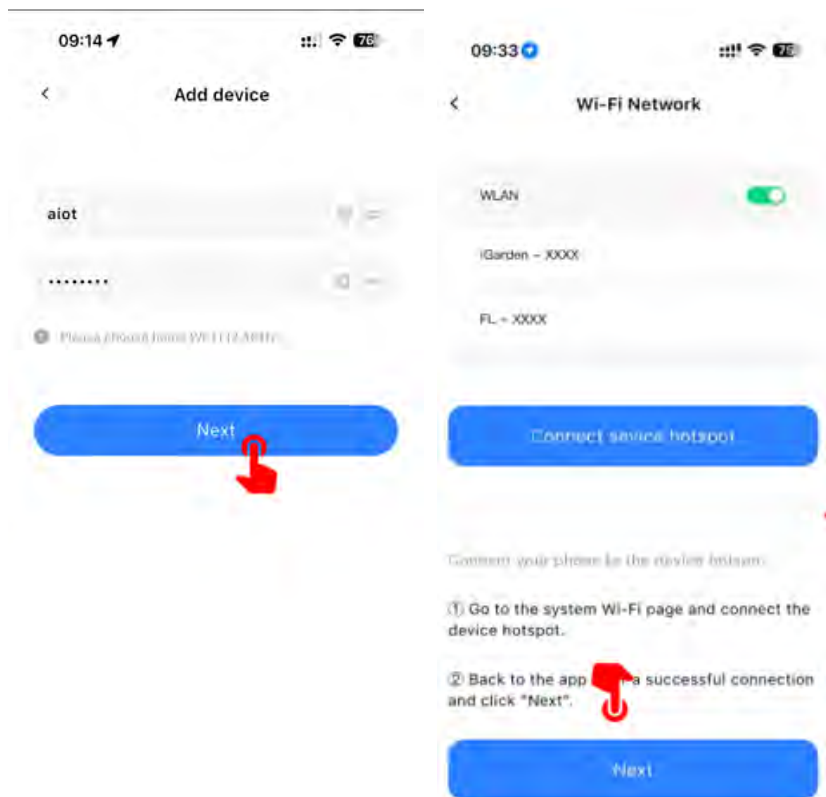
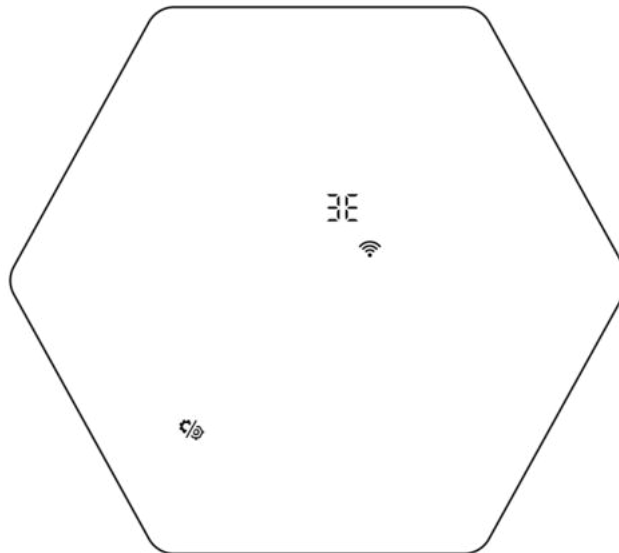


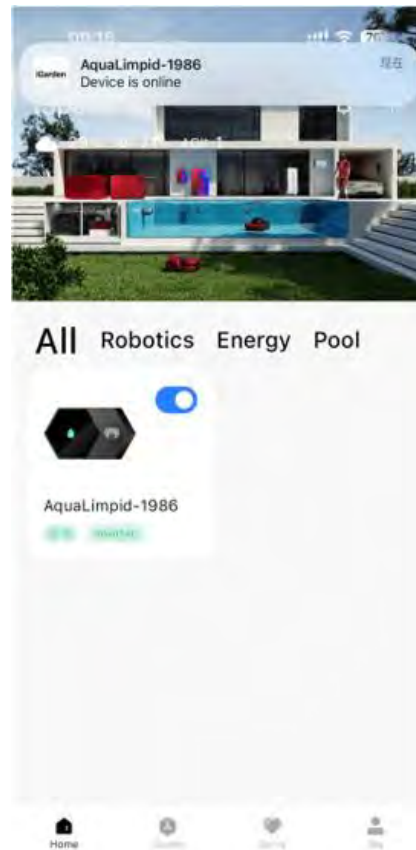
10.2.2 Wi Fi hotspot

- 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 "Salt chlorinator icon " and add it manually.



- ③ Enter the home wifi password and tap "Next",
- ④ When the chlorinator is on home screen, tap  to enter settings, hold  and  for 1.5 seconds, when an intermittent beep occurs, and enter network connection mode **【3E】** .
- ⑤ After the chlorinator enter network connection mode **【3E】** , connect your cell phone to the hotspot, as follow:

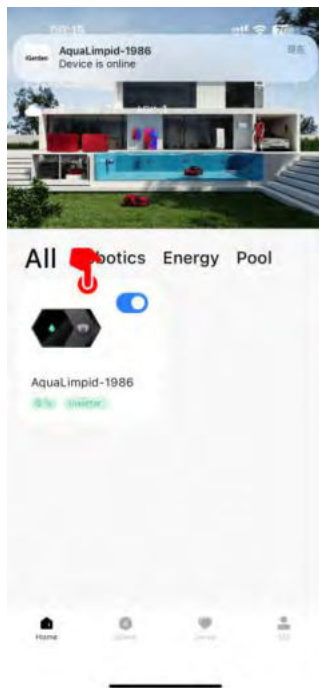




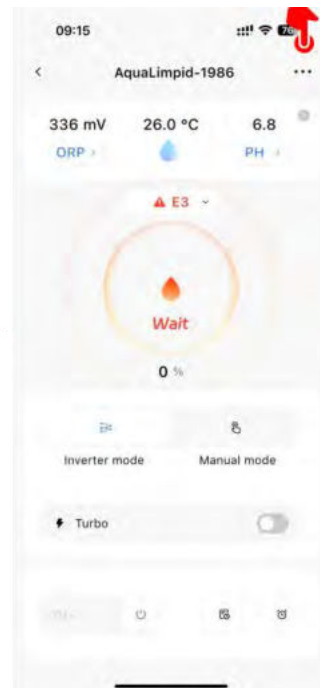
10.3 Remove Control

After Networking Configuration:

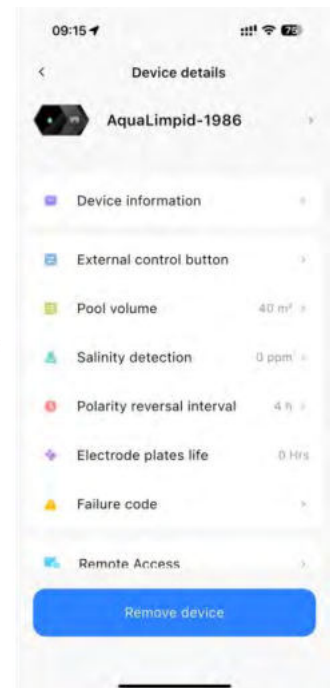
- ① On the iGarden Home screen, the user can tap the chlorinator icon enter its main screen. Or switch the chlorinator on/off using the blue slider.
- ② The Chlorinator main screen displays real-time status parameters and mode. The user can adjust setting points, timers, and switch to different modes.
- ③ Tap " ⋮ " on the upper right corner to enter Device details: Device information, external control, pool volume, Salinity calculation, polarity reversal interval, electrode plates life, failure code, and remove access.



iGarden Home screen



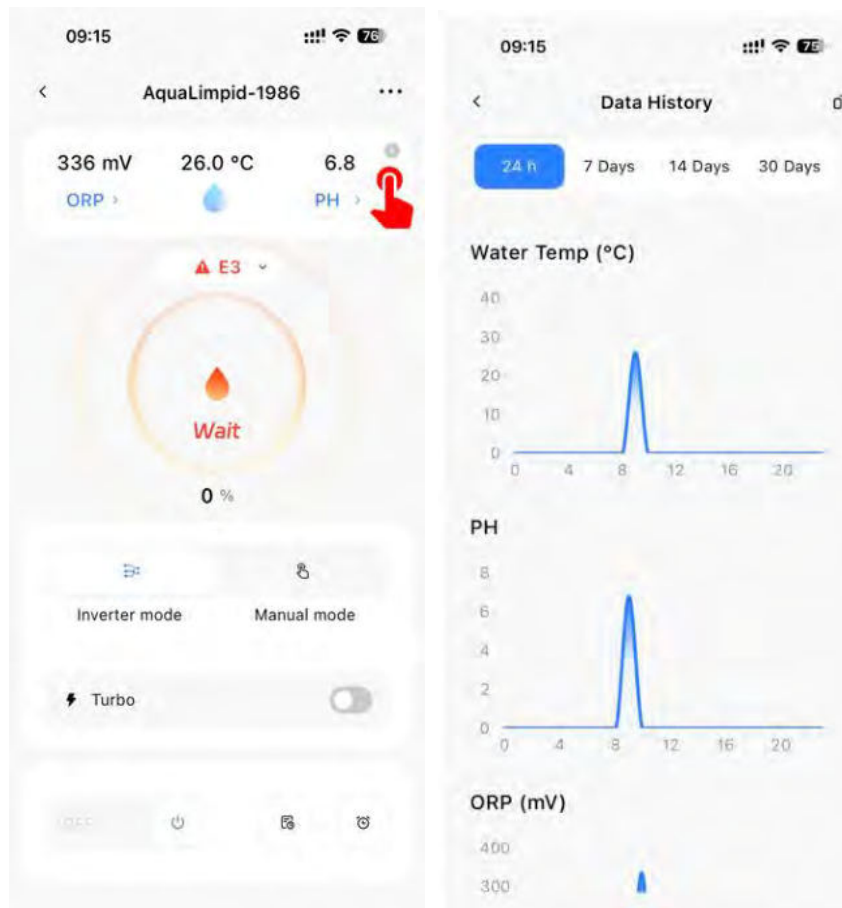
Chlorinator main screen



Device details

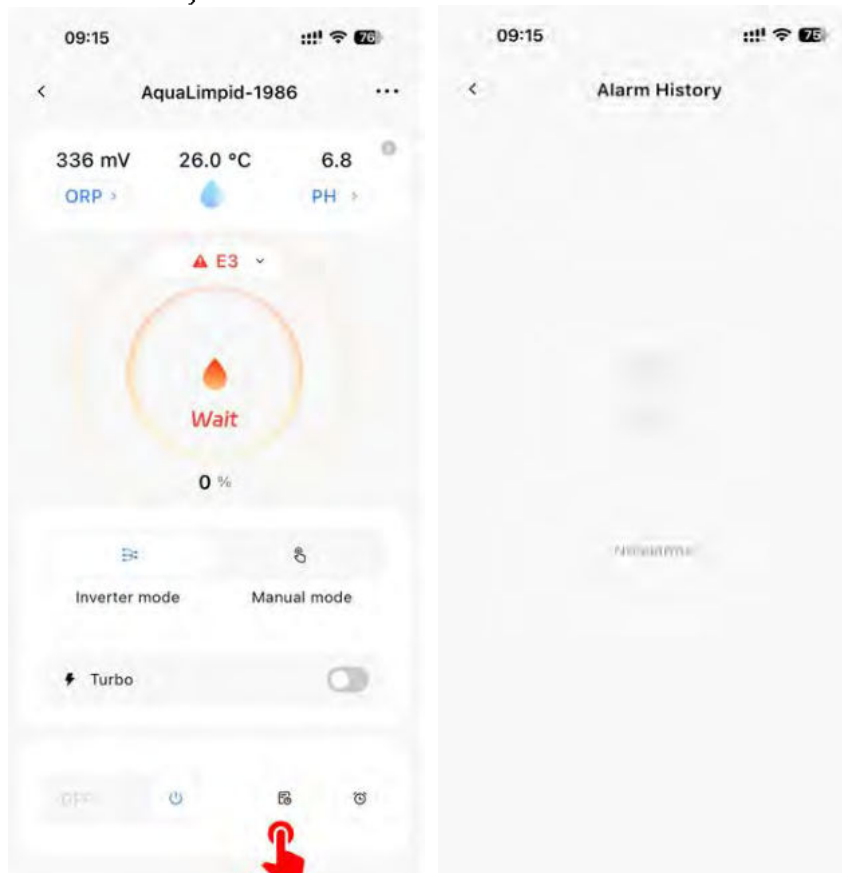
10.3.1 Data History

- ① Enter data history in the chlorinator main screen.
- ② Last 24 hours, 7 days, 14 days, or 30 days of data is displayed.
- ③ Tap on the icon  in the upper right corner to enlarge the data table.



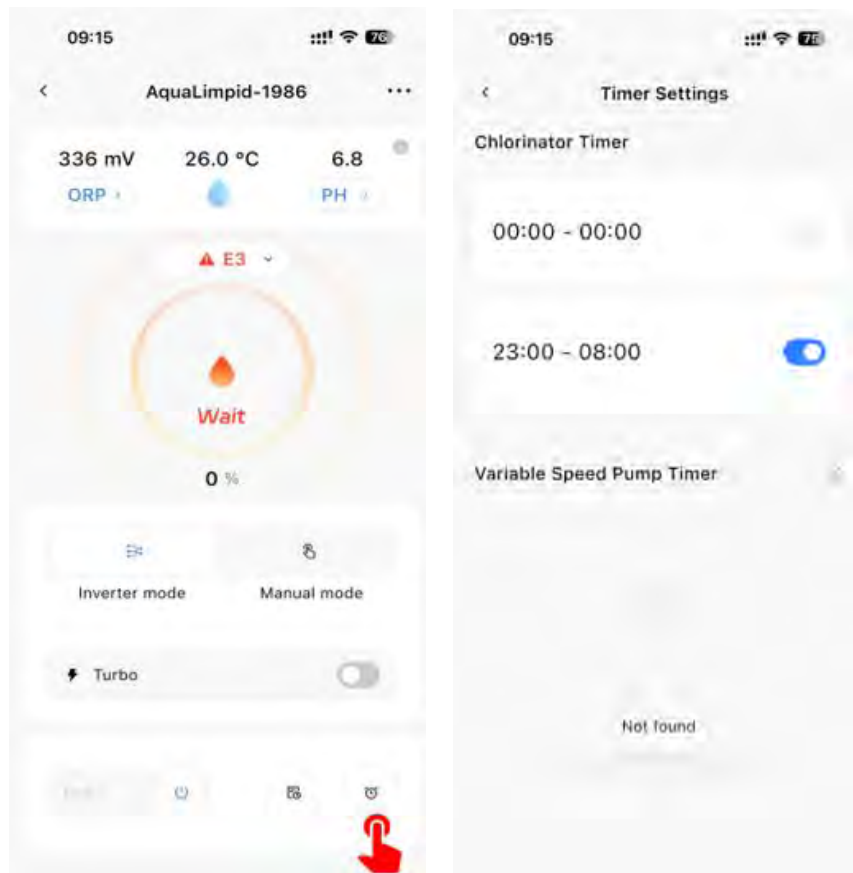
10.3.2 Alarm or Error History

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



10.3.3 Timer Settings

- ① Enter Timer Settings in the chlorinator main screen.

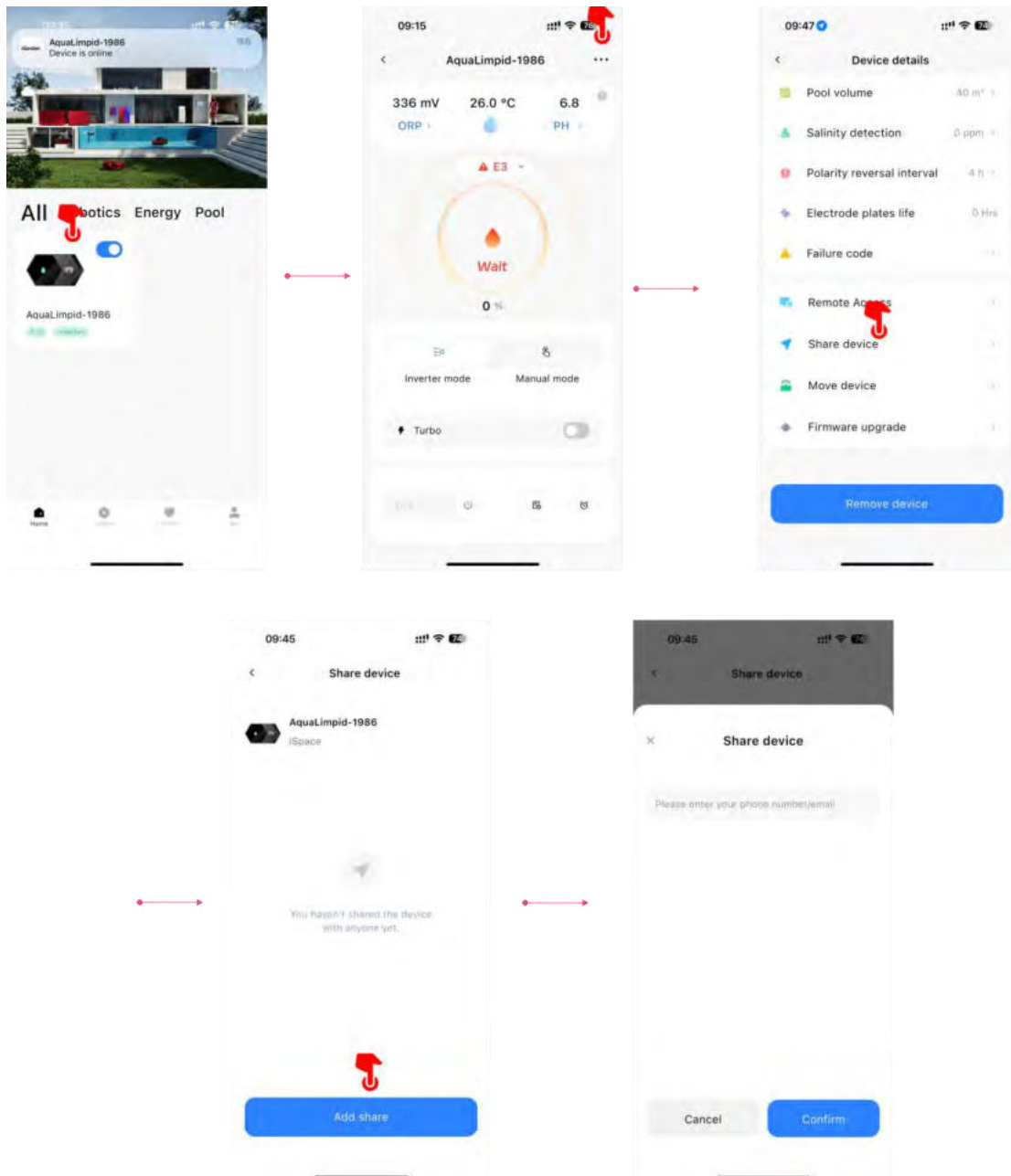


10.4 OTA Upgrade

- ① When an upgrade is available, the 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.

10.5 Device Sharing

- ① Download the "iGarden" app.
- ② Enter the app Settings, tap "Share Device".
- ③ Add the mobile number of the corresponding person being shared.
- ④ The user being shared can view the device's information simultaneously.



10.6 Change Language Settings

- ① Click "Me" in the lower right corner.
- ② Click the "Settings" button.
- ③ Swipe down and select "Language" to switch to the target language.

11 Error Code and Solution

Error Code	Effect	Trigger	Elimination	Remark
E1 Power Supply Abnormal	Pause the electrolysis process	When chlorine production is set > 10%, but real time DC output detected is too low	Automatically resume normal operation when the DC output recovers to the normal range.	1. Check electrodes connection. 2. Check the electrolytic cell for excessive scaling or coating loss. 3. Restart the chlorinator control unit. 4. Please contact the After-Sales Center.
E2 pH setpoint not reached Inverter	Pause the acid-adding process	pH readings failed to reach setpoints. ALS14: 24 h; ALS21: 48 h; ALS28: 72 h; ALS33: 72 h.	1. Restart the chlorinator. 2. Automatically resume normal operation when the pH setpoints are equal to the previous reading.	1. Test pH with other equipment. 2. Balance the pH level by adding extra chemicals. 3. Try the following in order: ● Check probe connections. ● Clean the probe. ● Calibrate the probe, then test pH again. ● Replace the probe. 4. E2 Alarm function can be turned off in 【P5】.
E3 No flow	Pause the electrolysis process and acid adding process	Flow status detected is "OFF"	Automatically resume normal operation when the flow switch is in the "ON" status.	Insufficient water flow might be caused by: 1. Filtration pump output. 2. Water valve closed. 3. Other possible reasons.
E4 Control Unit Overheat Protection	Pause the electrolysis process	The internal temperature of the control unit is over 80°C	Control Unit back to 68°C, E4 off.	The installation should avoid direct sunlight or high moisture, a sheltered area is more suggested.
E5 Low TEMP in Cell	Pause the electrolysis process	The water temperature detected by the temperature sensor is below 5°C.	Water temp higher than 6°C, E5 off.	Only shows up when the temperature sensor is installed.
E6 Air in Cell	Pause the electrolysis process and acid adding process	The water level in the electrolysis cell is low, and the air sensor is exposed to air.	Make sure high water level is in the cell, the air sensor is under water level.	Might be caused by: 1. Filtration pump output. 2. Water valve closed. 3. Other possible reasons.

E7 pH Sensor Failure Inverter	Pause the acid-adding process	A hardware communication error occurs inside the control unit.	A hardware communication error occurs inside the control unit.	1. Restart the chlorinator control unit. 2. Disconnect the power for 10 seconds and re-plug the chlorinator control unit. 3. Factory reset 4. Please contact the After-Sales Center
E8 ORP Sensor Failure Inverter	Pause the electrolysis process	A hardware communication error occurs inside the control unit.	A hardware communication error occurs inside the control unit.	1. Restart the chlorinator control unit. 2. Disconnect the power for 10 sec and re-plug the chlorinator control unit. 3. Factory reset 4. Please contact the After-Sales Center
E9 Power Module Failure	Pause the electrolysis process	A hardware communication error occurs inside the control unit.	A hardware communication error occurs inside the control unit.	1. Restart the control unit. 2. Disconnect the power for 10 seconds and re-plug the control unit. 3. Factory reset. 4. Please contact the After-Sales Center.
EA ORP Setpoint Not Reached Inverter	Pause the electrolysis process	ORP readings failed to reach setpoints. Alarm on after 72 hours	Automatically resume normal operation when setting the ORP setpoints equal to the previous reading.	1. Test the free chlorine level with other equipment, and make sure there's enough chlorine in the pool. 2. Replenish the pool with the proper amount of stabilizer. 3. Add Acid to balance pH. 4. Activate TURBO mode or add extra chlorine to reduce chloramine. 5. Check the cell for scaling or coating loss. 6. Try the following in order: ● Check ORP probe connection. ● Clean the probe. ● Calibrate the probe and test ORP value. ● Replace the probe 7. EA Alarm function can be turned off in 【P7】
EC Low salt Protection	Pause the electrolysis process	Pool salinity detected is below 500ppm	Automatically resume normal operation when the salinity is higher than the minimum threshold.	1. Replenish the salt up to the recommended level(3000-3500ppm). 2. Check the water temperature. 3. Check the cell for excessive scaling or coating loss. 4. EC Alarm function can be turned off in 【P6】

A1 ACID TANK	Indicator lights up, normal operation continues.	pH setpoints haven't been reached yet. ALS14: 6 h; ALS21: 12 h; ALS28: 18 h; ALS33: 18 h.	1. Restart the chlorinator. 2. Automatically resume normal operation when the pH setpoints are equal to the previous reading.	1. Replenish the acid tank. 2. Check for leakage of the whole dosing system. 3. Try the following steps: - Check pH probe connections - Clean the probe - Calibrate the probe and test the pH value again - Replace probe 4. A1 Alarm function can be turned off in 【P5】
A2 ADD SALT	Indicator lights up, normal operation continues.	Pool salinity detected is below 2000ppm	Automatically resume normal operation when the salinity is higher than the minimum threshold.	1. Replenish the salt up to the recommended level(3000-3500ppm). 2. Check the water temperature. 3. Check the cell for excessive scaling or coating loss. 4. A2 Alarm function can be turned off in 【P6】
A3 Low TEMP in Cell Warning	Chlorine Production is limited to $\leq 30\%$	Water temperature detected by the temperature sensor is below 10°C.	1. Water temp $> 10^{\circ}\text{C}$, operates in the preset mode. 2. If E5 was on, Water temp back to $> 12^{\circ}\text{C}$, chlorinator operates in the preset mode.	Only shows up when the temperature sensor is installed.
A4 Control Unit High Temp Warning	Chlorine Production is limited to $\leq 30\%$	Internal temperature of the control unit is over 70°C	1. Control Unit is $< 70^{\circ}\text{C}$, chlorinator operates in the preset mode. 2. If E4 was on, Control Unit back to $< 69^{\circ}\text{C}$, chlorinator operates in the preset mode.	The installation should avoid direct sunlight or high moisture; a sheltered area is more suggested.
A5 CALIBRATE	Indicator lights up, normal operation continues.	1. No calibration has been finished for more than 90 days	1. Restore factory default settings 2. Finish calibration.	A5 Alarm function can be turned off in 【P8】

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 Model

Problem Description

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

Usage Environment

- Pool Size, Indoor/Outdoor
- Actual Salinity and ORP, pH, Free Cl Levels
- Water Flow and Filtration Time

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

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1 Upozorenja



UPOZORENJE: Opće informacije

1. Pažljivo pročitajte upute koje se nalaze u ovom priručniku i na uređaju. Nepoštivanje uputa može uzrokovati ozljede. Ovaj dokument mora se dati svakom korisniku bazena i čuvati ga na sigurnom mjestu.
2. Kemikalije mogu uzrokovati unutarnje i vanjske opekline. Kako biste izbjegli smrt, teške ozljede i/ili oštećenje opreme, nosite osobnu zaštitnu opremu (rukavice, zaštitne naočale, masku itd.) prilikom servisiranja ili održavanja ovog uređaja. Ovaj uređaj mora biti instaliran na odgovarajuće prozračenom mjestu.
3. Uređaj ne smiju koristiti osobe (uključujući djecu) sa smanjenim fizičkim, senzornim ili mentalnim sposobnostima ili bez iskustva i znanja, osim ako nisu pod nadzorom ili im nisu dane upute.
4. Djeca se ne smiju igrati s uređajem. Održavanje i čišćenje od strane korisnika ne smiju provoditi djeca bez nadzora.
5. Klorinator mora biti postavljen ili pričvršćen tako da ne može pasti u vodu.
6. Izbjegavajte oštećenja zbog smrzavanja vode.
7. Koristite samo originalne Fairland dijelove.



UPOZORENJE: Opasnost od električne struje.

1. Uređaj je namijenjen isključivo za korištenje u bazenima.
2. Preporučuje se ugradnja upravljačke jedinice u strojarnicu bazena.
3. Prije bilo kakve intervencije ili održavanja isključite uređaj iz električne mreže.
4. Sve električne spojeve mora izvesti kvalificirani ovlašteni električar u skladu s važećim standardima u zemlji ugradnje.
5. Provjerite je li uređaj uključen u utičnicu zaštićenu od kratkog spoja. Uređaj se također mora napajati putem izolacijskog transformatora ili diferencijalne strujne sklopke (RCD) s nazivnom radnom diferencijalnom strujom koja ne prelazi 30 mA.
6. Provjerite odgovara li napon napajanja potreban za proizvod naponu distribucijske mreže i jesu li kabeli za napajanje prikladni za napajanje proizvoda.
7. Kako biste smanjili rizik od strujnog udara, nemojte koristiti produžni kabel za spajanje uređaja na električnu mrežu. Koristite zidnu utičnicu.
8. Uređaj se ne smije koristiti ako je kabel za napajanje oštećen. Može doći do strujnog udara. Oštećeni kabel za napajanje mora zamijeniti servisna služba ili slično kvalificirana osoba kako bi se izbjegla opasnost.

2 Uvod u proizvod

2.1 Specifikacija proizvoda

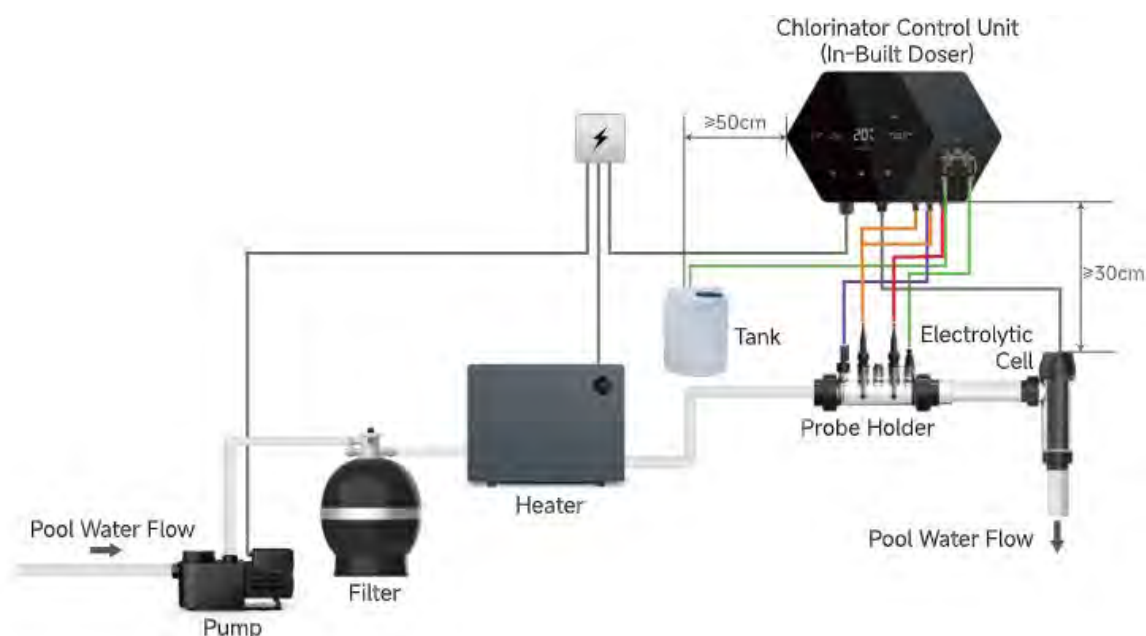
Model	ALS14	ALS21	ALS28	ALS33
Proizvodnja klora (g/h) (Salinitet: 3000 PPM)	14.0	21.0	28.0	33.0
Volumen bazena (m³)	50-70	70-85	80-110	100-125
Preporučeni salinitet	3 — 5 (preporučeno 3g/L)			
Napajanje	220—240V~ 50/60Hz			
Maks. izlazni napon	DC12V	DC12V	DC12V	DC12V
Maksimalna ulazna snaga	88W	123W	158W	181W
Preporučeni protok vode (m³/h)	5 — 18 m³/h			
Radna temperatura vode	10 — 40°C			
Temperatura okoline	-5 — 42°C			
Tlak za elektrolitsku ćeliju	3,0 bara za držač senzora, 4,5 bara za elektrolitsku ćeliju			
Vijek trajanja ćelije	Do 10000 sati			

3 Instalacije i priključci

3.1 Materijali i alati

Alati potrebni za instalaciju
Mjerna traka
Križni i ravni odvijači
Kliješta za bušenje
Bušilica
Pila za metal
Vodootporno tmelj za cijevi bazena
PVC temeljna boja i ljepilo

3.2 Dijagram instalacija



3.3 Upravljačka jedinica

Napomena:

- Preporučuje se ugradnja upravljačke jedinice u strojarnicu bazena.
- Radi sigurnosti i praktičnosti korisnika, upravljačka jedinica treba biti postavljena od tla najmanje 80 cm.
- Ne postavljajte upravljačku jedinicu izravno iznad otvorenog spremnika ili spremnika kemikalija.
- Preporučuje se postavljanje upravljačke jedinice klorinatora soli na udaljenost od spremnika ili spremnika kemikalija, **više od 2 m je bolje**. (Minimalna udaljenost između upravljačke jedinice i zatvorene bačve s kiselinom mora biti 50 cm)
- Jedinicu također treba držati podalje od izvora topline. Pravilna ventilacija je bitna za

ispravan rad.

- Elektrolitska ćelija je spojena na upravljačku jedinicu **kabelom ćelije od 1,8 m**.
- Upravljačka jedinica treba biti postavljena najmanje 30 cm više od elektrolitske ćelije.
- Spojite napajanje upravljačke jedinice na odgovarajuću vodootpornu utičnicu/kontroler.
- Radi lakšeg održavanja, upravljačka jedinica se može slobodno izvaditi s montažne površine, bez ikakvih suvišnih operacija.

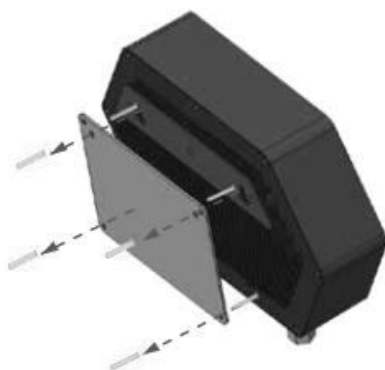
1. Koristeći zidnu stražnju ploču kao vodič, označite rupe na površini za montažu gdje će se konačno nalaziti upravljačka jedinica. Izbušite rupe u površini za montažu.

2. Umetnite ekspanzijske tiple u izbušenu rupu.

3. Ponovno postavite zidnu stražnju ploču na gornji i donji dio stražnje strane upravljačke jedinice pomoću vijaka koji su uklonjeni.

4. Zategnite sve vijke pazeći da je upravljačka jedinica sigurno obješena na površinu za montažu.

5. Provjerite napon izvora.



3.4 Elektrolitička ćelija

Napomena:

- Prije ugradnje provjerite je li pumpa bazena isključena.
- Preporučuje se ugradnja elektrolitičke ćelije u povratni vod bazena nakon filtera i grijača.
- Cementno otapalo ili temeljni premaz mogu uzrokovati oštećenja ako dođu u kontakt s navojima ili o-prstenovima.
- Elektrolitička ćelija spojena je na upravljačku jedinicu kabelom ćelije duljine 1,8 m.
- Neispravna ugradnja može uzrokovati kvarove proizvoda i poništiti jamstvo.

1. Dolje su prikazane 4 različite orijentacije ćelija:



2. Priključak za napajanje i senzor zraka moraju biti najviša točka instalacije.
3. Osigurajte odgovarajući protok vode preko ploča ćelije i prekidača zraka.
4. Provjerite je li viša razina vode u elektrolitičkoj ćeliji i priključak za napajanje najviša točka.
5. Ćelija se isporučuje s holenderima od 48,3 mm, 50 mm, 60,3 mm i 63 mm za spajanje na PVC vodovodne instalacije.
6. Osigurajte da se koristi odgovarajuće ljepilo za lijepljenje holendera na cijev.
7. Provjerite jesu li matice preko nastavaka holendera prije lijepljenja na cijev.
8. Nakon što se ljepilo za lijepljenje stvrdne, postavite kućište ćelije na cijev i ručno zategnite matice s o-prstenovima na mjestu.

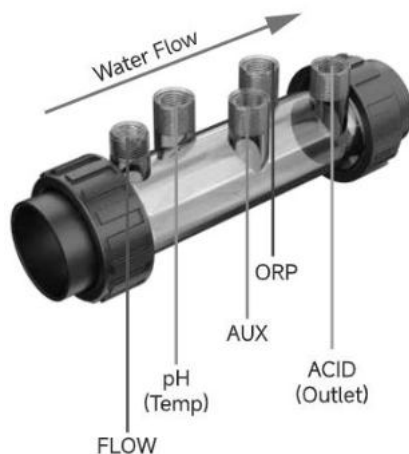
3.5 Kućište za ćelije

Napomena:

- Prije instalacije provjerite je li pumpa bazena isključena.
 - Nepravilna instalacija može uzrokovati kvarove proizvoda i poništiti jamstvo.
1. Kućište se smije instalirati samo horizontalno.

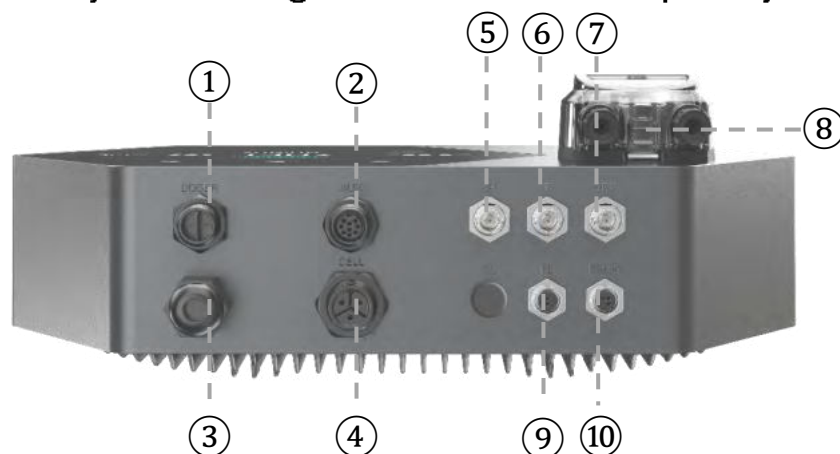


2. Prekidač protoka, pH sonda, ORP sonda, nepovratni ventil (za kiselinu) mogu se ugraditi prema preporučenom redoslijedu.



3.6 Elektronički spojevi

3.6.1 Kontrolna jedinica s ugrađenim dozatorom pH vrijednosti



No.	Naziv porta	Fotografija	Opis	
①	Suhi kontakt		Konektor za suhi kontakt Sigurna vrijednost struje <5A, AC220-240V	
②	AUX (9-pinski)		Rezervirano vanjsko upravljanje (VS pumpa, pokrov bazena)	
③	Ulazna snaga		Priključak za izmjeničnu struju (220-240 V, 50/60 Hz)	
④	Izlazna snaga		Terminal za napajanje ćelije	
⑤	pH		BNC konektor za pH senzor	
⑥	T (Temperatura vode)		BNC konektor za temperaturni senzor (integriran sa pH senzorom)	
⑦	ORP		BNC konektor za ORP senzor	
⑧	Ugrađeni regulator pH		Lijevo	Ulaz kiseline
			Pravo	Izlaz kiseline
⑨	FL (Prekidač protoka)		Priključak za protočnu sklopku	
⑩	485 COM (Rezervirano)		1	485 - B
			2	485 - A
			3	485 - GND

3.6.2 Priključak kabela sa suhim kontaktom (vodena pumpa)

Specifikacije suhog kontakta:

Tip: Izolirani relejni kontakt (NO/NC)

Nazivna vrijednost: MAX 5A, 220-240V AC

Karakteristike:

- Sam kontakt ne daje napon/struju.
- Može prebacivati vanjska AC opterećenja do 5A na 220-240V.

Logika upravljanja vodenom pumpom putem suhog kontakta:

Radna stanja i njihovi ishodi jasno su definirani u sljedećoj logičkoj tablici:

Stanje klorinatora / prikazani zaslon	Status suhog kontakta	Radnja vodene pumpe
Klorinator je ISKLJUČEN	Nepovezan	Isključeno
Zaslon za postavke (nakon isključivanja)	Nepovezan	Isključeno
POČETNI zaslon	Povezano	Uključeno
Zaslon za kalibraciju	Povezano	Uključeno

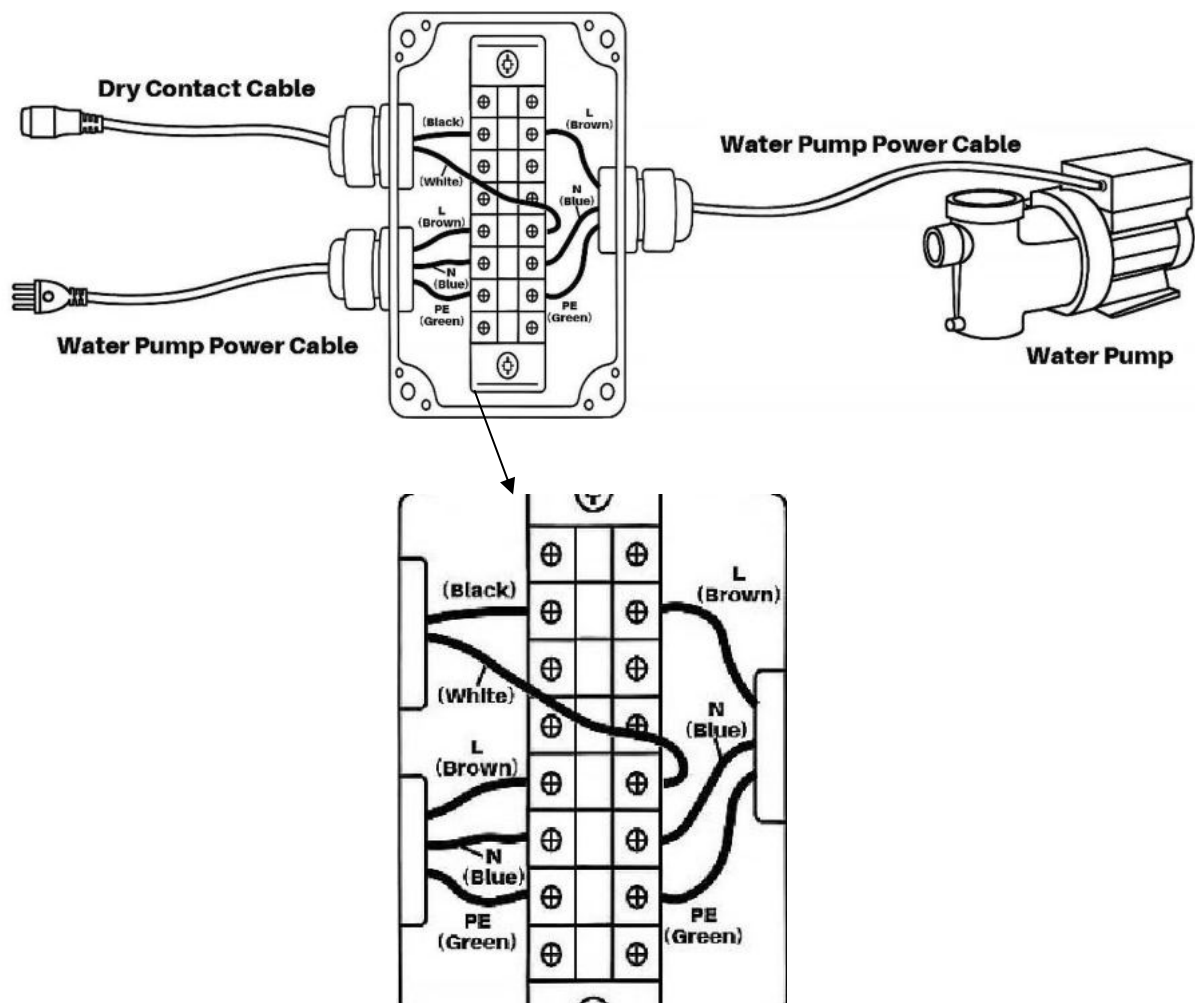
Naš proizvod je opremljen suhim kontaktnim kablom (3 m), ožičite kabl kao što je prikazano na donjem dijagramu:



- ① Uklonite vanjsku crnu izolaciju s kabela za napajanje vodene pumpe koji će biti spojen na klorinator soli. Tri žice unutra su izložene (zelena, plava, smeđa).

- ② Odspojite tri žice kabela za napajanje vodene pumpe.
- ③ Ugradite kableske uvednice ili konektore: Ako vaša razvodna kutija koristi kableske uvednice, uvrnite ih u ulazne točke kutije. One se koriste za pričvršćivanje kabela i osiguravanje vodootpornog brtvljenja. Ili umetnite žice u razvodnu kutiju: Provucite žice kroz kableske uvednice ili vodootporne konektore u razvodnu kutiju. Pazite da žice prolaze bez ikakvih pregiba ili oštih zavoja.
- ④ Spojite žice: Unutar razvodne kutije spojite žice pomoću vijčanih priključaka ili drugih odgovarajućih konektora (kao što su matice za žice ili krimpovani konektori). Provjerite je li svaka žica sigurno pričvršćena i da nema izloženog metala koji bi mogao uzrokovati kratki spoj. Ako je potrebno, upotrijebite izolirnu traku za prekrivanje bilo koje izložene žice radi dodatne zaštite.
- ⑤ Zatvaranje razvodne kutije: Zatvorite vodootpornu razvodnu kutiju, pazeći da je brtva ili O-prsten na mjestu kako bi se spriječio ulazak vode. Zategnite vijke ili zasune koji pričvršćuju kutiju.
- ⑥ Testirajte spoj:

Nakon što je razvodna kutija zatvorena, testirajte spoj uključivanjem napajanja ili provjerom kontinuiteta kako biste bili sigurni da je sve ispravno spojeno i da funkcionira kako se očekuje.



NAPOMENA:

- Pazite da je napajanje isključeno tijekom cijelog rada. Uključite napajanje utičnice tek nakon što su svi spojevi završeni.

3.6.3 Priključak AUX uređaja

Naš proizvod je opremljen 9-pinski konektorom za pomoćne uređaje poput VS pumpe i pokrova za bazen, kao što je prikazano na dijagramu ispod:



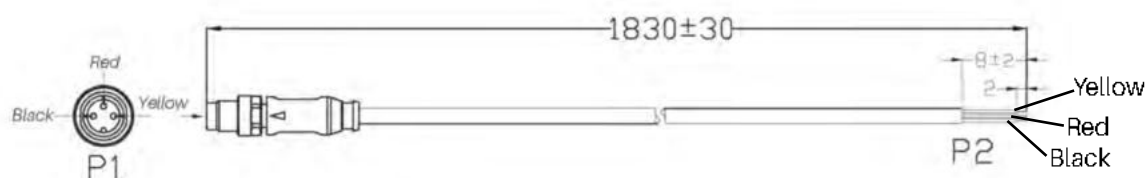
Broj	Boja žice	Opis
①	Crna	VS Zaustavljanje pumpe (isključeno)
②	Narančasta	VS Niska pumpa (S1)
③	Crvena	VS pumpa medij (S2)
④	Plava	VS Visokotlačna pumpa (S3)
⑤	Bijela	VS Pump Com
⑥	Siva	AUX (DC5V izlaz)
⑦	Smeđa	AUX
⑧	Zelena	Pokrivač za bazen
⑨	Žuta boja	Poklopac za bazen GND

3.6.4 RS485 Kabelski priključak

Prema različitim konfiguracijama, mogu se odabrati RS485 kabeļi. Inteligentni upravljački sustav klorinatora soli radi putem RS485 komunikacije.



Za prijenos podataka koristi 3-pinski RS485 kabel. Jedan kraj kabela (P1) tvornički je spojen na 485-COM priključak klorinatora soli, dok drugi kraj (P2) mora biti spojen na RS-485 priključak vanjskog upravljačkog uređaja.



Svaka jezgra žice je označena bojom kako bi se osiguralo ispravno i sigurno spajanje terminala, kao što je prikazano u donjoj tablici:

Tablica komunikacijskog ožičenja

Boja žice	Connecticut
Žuta boja	GND
Crvena	B
Crna	A

4 Priprema vode za bazen

Kako bi se voda u bazenu pripremila za rad klorinatora, njezin kemijski sastav mora biti uravnotežen i mora se dodati sol. Određene prilagodbe kemijske ravnoteže bazena mogu potrajati nekoliko sati.

Postupak se stoga **MORA** započeti mnogo **PRIJE** uključivanja klorinatora.

4.1 Dodavanje soli

Dodajte sol nekoliko sati ili, ako je moguće, dan prije uključivanja klorinatora. Pazite da koristite preporučenu količinu soli.

Izmjerite sadržaj soli 6 do 8 sati nakon dodavanja soli u bazen.

NAPOMENA:

- Ako voda u bazenu nije svježa i/ili ako postoji mogućnost da sadrži otopljene metale, upotrijebite sredstvo za uklanjanje metala prema uputama proizvođača.
- Ako je vaša voda prethodno tretirana proizvodom koji nije klor (brom, vodikov peroksid, PHMB itd.), neutralizirajte taj proizvod ili zamijenite svu vodu u bazenu.
- Ako koristite mineralnu sol (magnezijev klorid i/ili kalijev klorid) dodajte otprilike 1,4 puta veću količinu normalne soli. (Optimalna razina mineralne soli 4200 ppm).
- Ako se vaša voda dovodi iz bunara, izvršite šok kloriranje trikloroizocijanurnom kiselinom (2 kg/50 m³ vode).

4.2 Kemijska ravnoteža vode

Voda se mora ručno uravnotežiti **PRIJE** pokretanja uređaja.

Sljedeća tablica sažima preporučene koncentracije. Vodu treba redovito provjeravati kako bi se održale te koncentracije i smanjila korozija ili propadanje površine.

KEMIJA	Preporučene KONCENTRACIJE
Sol	Sol 3,0-5,0 g/l (preporučeno 3 g/l)
Slobodni klor	Slobodni klor 1,0 do 3,0 ppm
pH	pH 7.2 to 7.6
Cijanurna kiselina (stabilizator)	20 do 30 ppm maksimalno, 0 ppm u unutarnjem bazenu (Dodajte stabilizator samo ako je potrebno)
Ukupna alkalnost	80 do 120 ppm
Tvrdoća vode	200 do 300 ppm
Metali	0 ppm
Algicid	Upotreba algicida je opcija, ali mora biti bez bakra.

5 Rad upravljačke jedinice

5.1 Opći prikaz zaslona



Opis	Ikona
pH u stvarnom vremenu	8.8 pH
Temperatura vode u stvarnom vremenu (°C/°F)	88 °F 88 °C
Proizvodnja klora u stvarnom vremenu	100%
ORP u stvarnom vremenu *prikazuje se „---“ kada vrijednost prijeđe 999 mV	rX 00.0 mV
Glavno područje prikaza: - volumen bazena (m3) - odbrojavanje za pojačani način rada - lokalno vrijeme, timer 1 i 2 - količina dodane kiseline (ml/dan) - proizvodnja klora u stvarnom vremenu (%)	TIMER ON OFF 1 2 WAIT 00:00 m³ ml/day

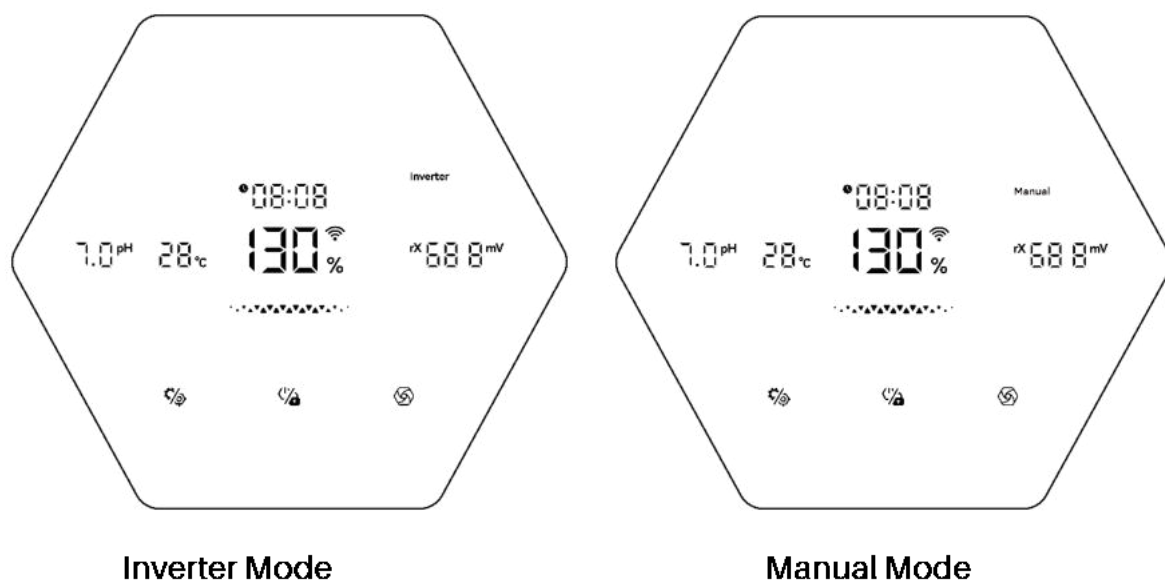
Način proizvodnje klora: Inverterski način rada	Inverter
Način proizvodnje klora: Ručni način rada	Manual
Kodovi pogrešaka	
Upozorenja	 ADD SALT ACID TANK NO FLOW AIR IN CELL CALIBRATE
LED indikator ● Plava: Pogodno za plivanje ● Crvena: Nestabilno stanje vode / abnormalna ORP ili pH vrijednost (LED indikator stalno treperi) * Dostupno samo s ORP sondom, pH+ Temperaturnom sondom	
Odabir načina proizvodnje klora / Pojačavanje	
Ugađanje	
Postavke/Kalibracija	
Smanjivanje zvuka	
Napajanje/Zaključavanje	

5.2 Uvod u način proizvodnje klora

Klorinator se može konfigurirati u 3 različita načina rada prema različitim načinima proizvodnje klora. Početni zasloni u ova 3 različita načina rada prikazani su u nastavku.

Opcije hardvera		ORP+pH+Doser
Izorno Način proizvodnje klora	Inverter Mode	√
	Manual Mode	√

5.2.1 Početni zaslon



5.3 Uvod u LED indikator

LED indikator svakog statusa prikazan je na sljedeći način:

Status		LED indikator
Prikaz kvalitete vode u stvarnom vremenu	Kvaliteta vode	Plava: Pogodno za plivanje
	1. Nestabilno stanje vode 2. Nenormalna ORP ili pH vrijednost * Dostupno samo s ORP sondom ili pH/temperaturnom sondom	1. Crveno: Nestabilno stanje vode / abnormalno 2. Vrijednost ORP-a, pH vrijednost stalno treperi
Kalibriranje	1. Kalibracija ORP-a 2. Kalibracija pH-a	1. U radu: LED svijetli plavo i postupno se smanjuje. 2. Uspjeh: Dugi zvučni signal. 3. Neuspjeh: LED treperi, zvučni signal se oglašava 2 puta i vraća se na početni zaslon.

5.4 Osnovne naredbe i funkcije

Tipke za naredbe	Funkcija
	1. UKLJUČIVANJE: U početku držite 3 sekunde. 2. ISKLJUČIVANJE: Dodirnite početni zaslon. 3. Zaključavanje/otključavanje zaslona: Držite 3 sekunde. Napomena: Funkcija automatskog zaključavanja aktivirat će se nakon 2 minute bez ikakve radnje.

	1. Uđite u BOOST naćin rada: Dodirnite 2. Izadite iz BOOST naćina rada: Držite 3 sekunde
	1. Uđite u izbornik postavki Dodirnite 2. Uđite u postupak kalibracije: Držite 3 sekunde 3. Prijedite na sljedeći korak: Dodirnite 4. Povratak na početni zaslon: Držite 3 sekunde
	Povećanje broja/Podešavanje: Dodirnite.
	Smanjivanje broja/Smanjivanje tona: Dodirnite.

5.4.1 Pokrenuti

① Preporučuje se prvo postaviti volumen bazena **【P2】** i lokalno vrijeme **【P3】** , interval promjene polariteta **【P4】** . (Pogledajte toćku 5.4.7)

- Prilikom uključivanja upravljaćke jedinice, prikazat će se početni zaslon.

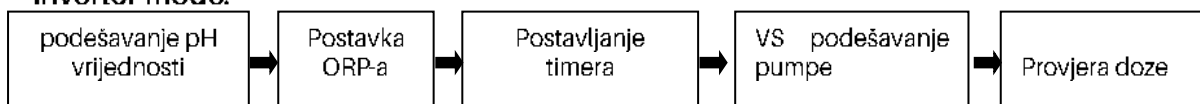
② Odabir naćina proizvodnje klora

- Na početnom zaslonu držite pritisnute tipke  i  za ulazak u izbornik Naćina proizvodnje klora.
- Dodirivanjem tipke  ili  odaberite Naćin proizvodnje klora (Inverter, Automatski pH, Rućno)
- Dodirivanjem tipke  vratite se na početni zaslon.

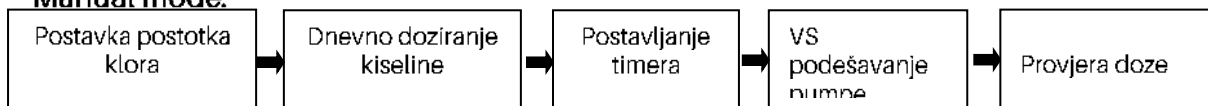
Note: Napomena: Kada se klorinator prebaći u rućni naćin rada, dozator će se automatski rotirati 30 sekundi.

Dodirnite  za ulazak u postupak postavljanja Sljedeći koraci za pokretanje:

Inverter mode:



Manual mode:



③ Postavljanje zadane vrijednosti ORP-a

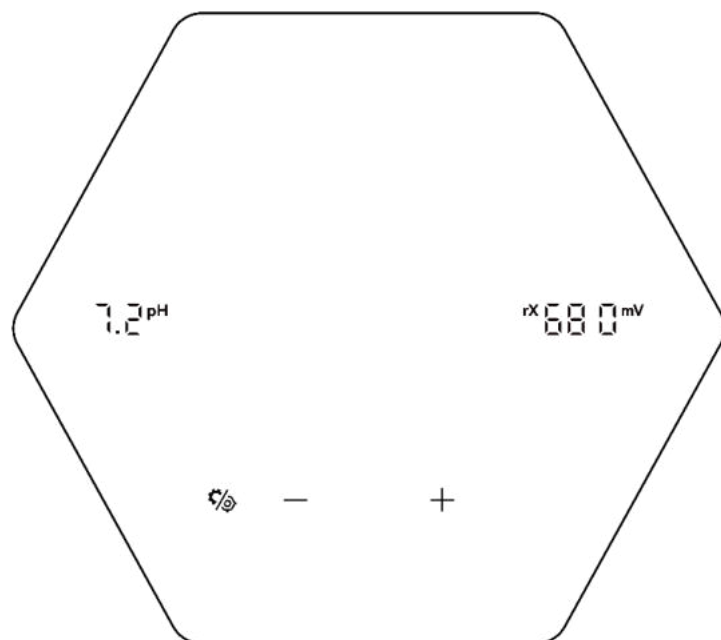
- Zadani prikaz znamenki na zaslonu tipkovnice je „700mV“.

- Kada broj treperi, može se podesiti od 200 do 850 mV, u koracima od 10, dodirom $+$ ili $-$. Držanjem tipke možete ubrzati brzinu podešavanja u koracima od 20.
- Potvrdite postavku zadane vrijednosti ORP dodirom  i unesite sljedeći korak: postavku zadane vrijednosti pH.

④ Postavljanje zadane vrijednosti pH

- Zadani prikaz znamenki na zaslonu tipkovnice je „7,2”.
- Kada broj treperi, može se podesiti od 6,5 do 8,5, u koracima od 0,1, dodirom na $+$ ili $-$. Držanjem tipke ubrzavate podešavanje.
- Dodirnite  za potvrdu i ulazak u sljedeći korak.

Napomena: Ako je P5 postavljen na 0, alarmi A1 (spremnik kiseline) i E2 (pH vrijednost nije dosegnuta) bit će isključeni.



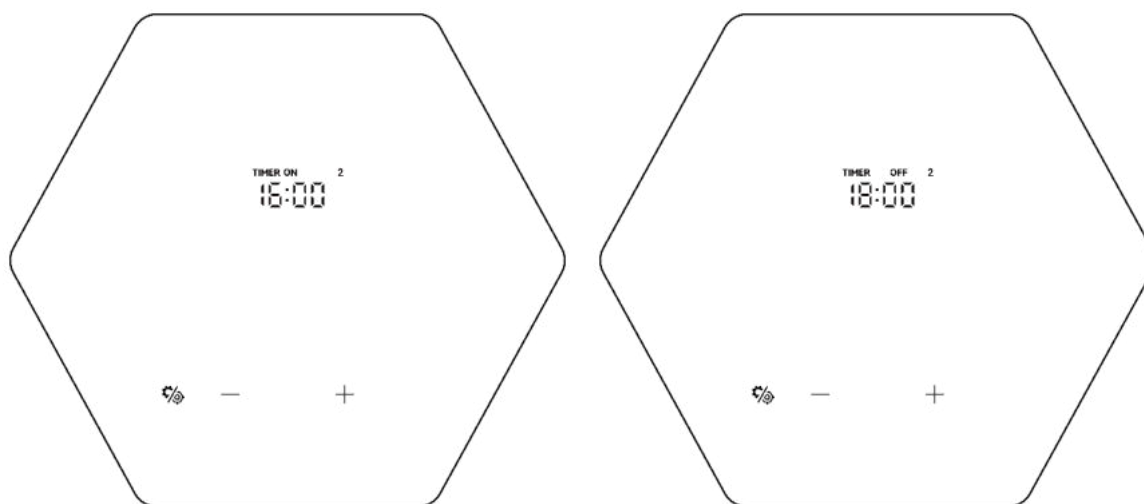
⑤ Postavljanje timera

- Ukupno postoje 2 timera, nazvana **1** i **2**.
- Za svaki timer, kada **TIMER ON** treperi, dodirnite $+$ ili $-$ za odabir **TIMER ON** ili **TIMER OFF**, što znači uključivanje ili isključivanje pojedinačnog timera.

Korak 1	Korak 2
Odaberite TIMER ON	① Kada se upale TIMER ON i 1 , postavite sate prvog timera dodirom $+$ i $-$, spremite parametar dodirom

	 , a zatim postavite i spremite minute na isti način. ② Kada je podešavanje TIMER ON završeno, TIMER OFF svijetli, postavite vrijeme završetka timera 1 na isti način. ③ Dodirnite  za spremanje timera 1 i prijedite na sljedeće postavke timera 2 .
Odaberite TIMER OFF	① Nema potrebe za postavljanjem timera 1 , dodirnite  i prijedite na timer 2 .

- Dodirnom na  potvrdite postavke timera i vratite se na početni zaslon.

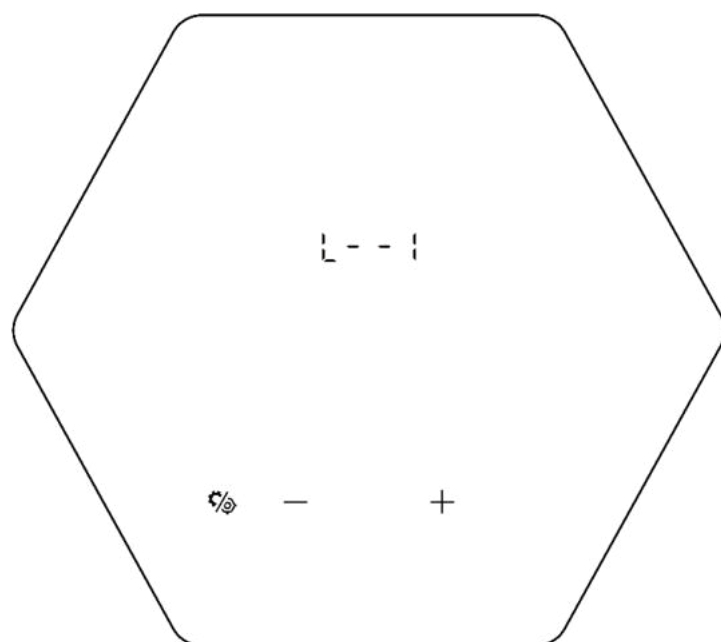


⑥ Postavka pumpe s promjenjivom brzinom (VS pumpa)

- Prije postavljanja brzine VS pumpe, provjerite je li AUX spojen na VS pumpu. (točka 3.6.3)
- Ako je upaljeno svjetlo "L--", dodirnite $+$ ili $-$ za odabir brzine.

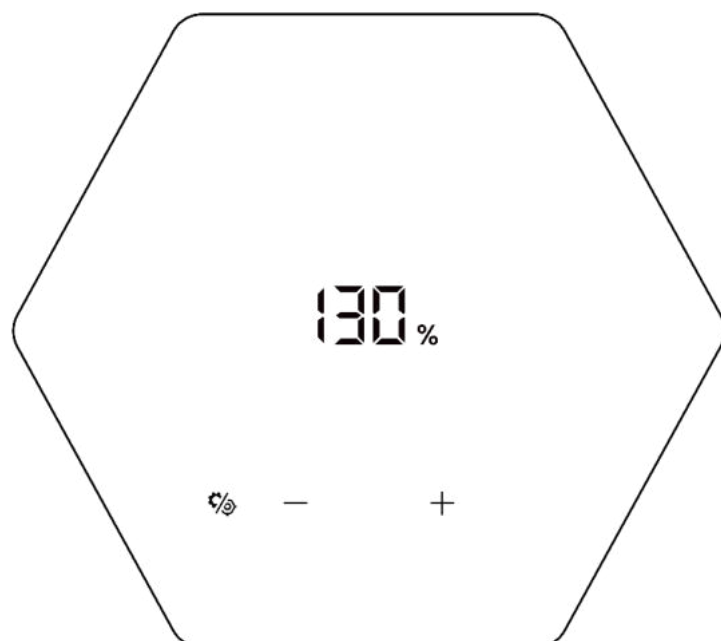
VS način rada pumpe	Funkcija
L - - 0	VS Zaustavljanje pumpe
L - - 1	VS pumpa radi na maloj brzini
L - - 2	VS pumpa radi srednjom brzinom
L - - 3	VS pumpa radi velikom brzinom

- Dodirnite  za potvrdu i ulazak u sljedeći korak.



⑦ Postavka proizvodnje klora (Manual Mode)

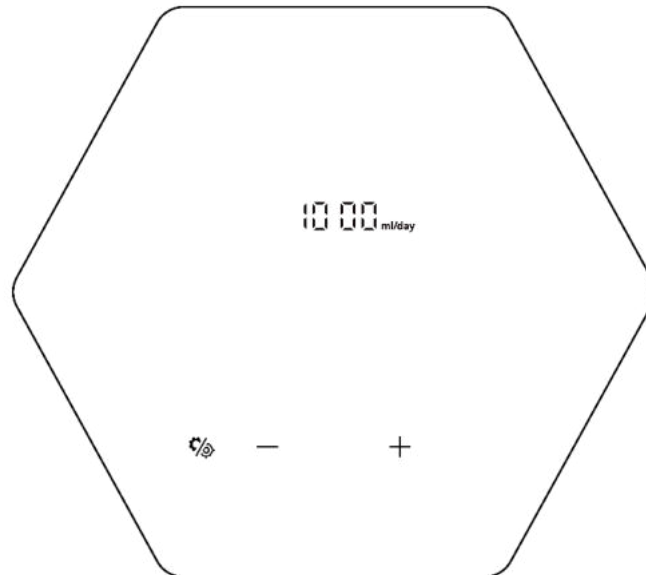
- Zadani prikaz znamenki na zaslonu tipkovnice je „130%“.
- Kada broj treperi, može se podesiti od 0 do 130, u koracima od 5, dodirnom na $+$ ili $-$. Držanje tipke može ubrzati brzinu podešavanja.
- Dodirnite  za potvrdu i ulazak u sljedeći korak.



⑧ Postavka volumena doziranja pH (Samo Manual Mode)

- Postavka stvarnog volumena doziranja pH vrijednosti: raspon 0-99900 ml/dan. Na zaslonu tipkovnice, brojčani prikaz je 0-9990 ml/dan.

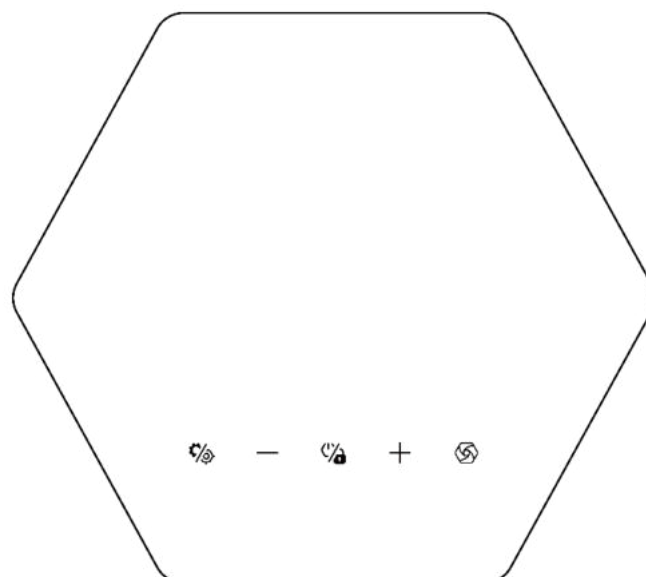
- Zadani brojčani prikaz na zaslonu tipkovnice je "50", što znači da je stvarni volumen doziranja pH vrijednosti 500 ml/dan.
- Kada broj treperi, može se podesiti od 0 do 9990, u koracima od 10, dodirrom na $+$ ili $-$. Držanje tipke može ubrzati brzinu podešavanja.
- Dodirnite  za sljedeći korak.



⑨ Provjera doze

Da biste provjerili radi li dozator ispravno ili ne, koraci su sljedeći:

- Provjerite jesu li crijeva dozatora i PE cijevi za kiselinu spojeni i čvrsto pričvršćeni.
- Provjerite razinu tekućine u spremniku kiseline i je li PE cijev za kiselinu spojena na usisni ventil u spremniku.
- Na početnom zaslonu dodirnite  i isključite klorinator (ISKLUČITE napajanje).



- Držite tipke $+$ i $-$ 3 sekunde, zatim se oglasi dugi zvučni signal.

- Dozator će se automatski okretati 30 sekundi.
- Promatrajte je li otopina kiseline napunjena u PE cijevima za kiselinu i peristaltičkoj cijevi.
- Otopina kiseline se istiskuje kroz cijev dozatora kako bi se skupila voda, dozator je spreman.
- Dodirnite  , uključite klorinator (**uključeno**)

5.4.2 POVEĆAJTE performanse

- ① **UKLJUČITE Boost način rada:** dodirnite  za ulazak u Boost način rada.

Uređaj će raditi na 130% snage 24 sata. Prikazat će se proizvodnja u stvarnom vremenu i odbrojavaње Boost načina rada.

- ② **ISKLJUČITE Boost način rada:** Držite  3 sekunde.



NAPOMENA:

- Preporučuje se aktiviranje BOOST načina rada kada je klor hitno potreban.
- Dok je BOOST način rada uključen,  se deaktivira.
- Ako se klorinator isključi dok je BOOST način rada uključen, odbrojavaње BOOST-a se osvježava kada se klorinator ponovno uključi.
- Kada se BOOST način rada prekine ili zaustavi, proizvodnja se nastavlja prema prethodnim postavkama.
- U Boost načinu rada, kada je ORP veći od postavljene vrijednosti, proizvodnja klora i dalje radi na 130%.

5.4.3 Način rada s pokrivačem bazena

NAPOMENA:

- Kada se otkrije pokrov bazena, automatski će se aktivirati niska proizvodnja klora, a na zaslonu će se prikazati ikona .
- Zaštita pokrova bazena može se postaviti od 0-30% **【PA】**, u koracima od 10 (**točka 5.4.7**).
- Na primjer, ako je trenutni postotak proizvodnje klora veći od 30%, proizvodnja klora će se smanjiti na 30%; ako je trenutni postotak proizvodnje klora manji od 30%, ostatak će nepromijenjen.
- Kada se pokrov bazena ne otkrije, pokrov se zatvara i ikona  se ne prikazuje. Nastavlja se normalna elektroliza.

5.4.4 Preporučene postavke

Dodirnite Postavka  za unos postavki sljedećim redoslijedom:

- 1) Ciljana postavka pH: raspon 6,5-8,5, preporučena zadana vrijednost je: 7,2~7,6
- 2) Ciljana postavka ORP: raspon 200-850mV (inverterski način rada)
 - Preporučena zimska postavka ORP: ORP 650mV.
 - Preporučena ljetna postavka ORP: ORP 700mV.
 - Ako postoji sonda za slobodni klor ili drugi instrument za praćenje slobodnog klora, prilagodite vodu u bazenu (slobodni klor 1,0 do 3,0 ppm), zatim pogledajte ORP vrijednost na zaslonu klorinatora i zapamtite tu razinu kao zadanu vrijednost.
- 3) Proizvodnja klora: 0-130% (automatski pH način rada / ručni način rada).
- 4) Postavka volumena doziranja pH: raspon 0-9990 (ručni način rada), što odgovara 0-99900 ml/dan.

Klorovodična kiselina: koncentracija $\leq 12,5\%$.

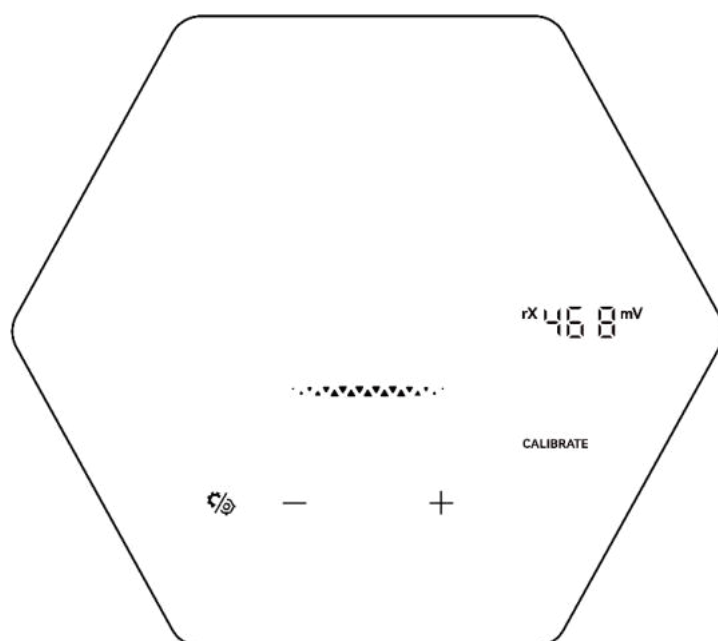
- 5) Postavke timera: raspon 0:00-24:00 (24 sata).

5.4.5 Kalibriranje

① Kalibracija ORP-a (Inverter Mode)

Držite  3 sekunde za ulazak u postupak kalibracije.

- Kada zadana znamenka prikazuje ORP vrijednost 468 mV koja treperi, dodirnite  ili  za podešavanje vrste ORP kalibracijskog pufera (raspon od 200-600 mV).
- Stavite ORP sondu u otopinu pufera od 468 mV, provjerite je li glava sonde potpuno natopljena.
- Kalibracija je završena kada se oglasi zvučni signal, a zatim uđite u kalibraciju pH.

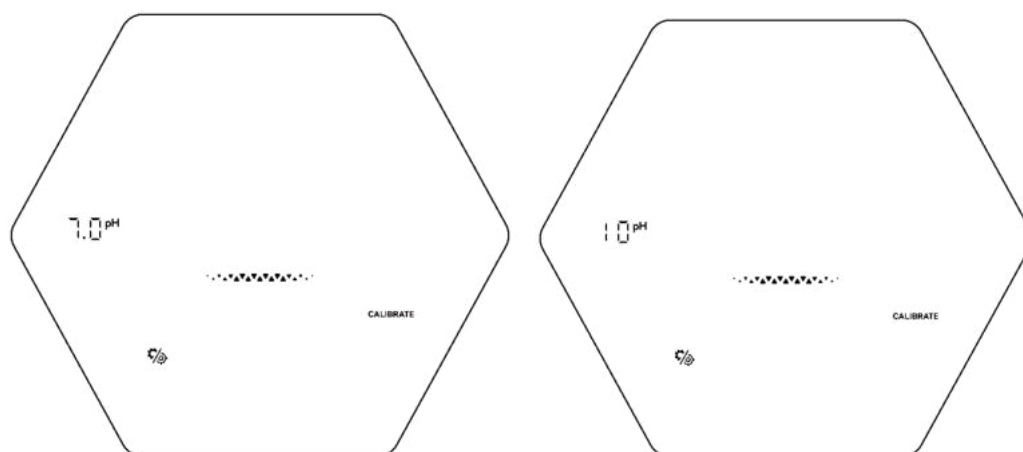


NAPOMENA:

- Vrijednosti kalibracije ORP-a kreću se od 200-600 mV, veličina koraka je 1 mV. Držanje gumba može ubrzati brzinu podešavanja.
- Ovaj korak se također može preskočiti dodirom na .
- Ako je ORP sonda natopljena pogrešnom otopinom, plavi LED indikator će nastaviti treptati dok se sonda ne koristi ispravno. U suprotnom, vratit će se na početni zaslon 10 minuta kasnije.
- Prije kalibracije ili zamjene sonde, ventil elektrolitičke ćelije treba zatvoriti kako bi se spriječilo curenje.

② Kalibracija pH 7,0 i pH 10,0 (Inverter Mode)

- Na zaslonu za obradu, zadana znamenka prikazuje „pH 7,0“, a plavo svjetlo treperi.
- Stavite pH sondu u otopinu pufera pH 7,0 i provjerite je li glava sonde potpuno natopljena.
- Kalibracija je završena kada se oglasi zvučni signal, a zatim unesite kalibraciju pH 10,0.
- Ne zaboravite očistiti pH sondu prije kalibracije pH 10,0.
- Na zaslonu za obradu, zadana znamenka prikazuje „pH 10,0“.
- Stavite pH sondu u otopinu pufera pH 10,0 i provjerite je li glava sonde potpuno natopljena.
- Kalibracija je završena kada se oglasi zvučni signal, a zatim unesite postavku veličine bazena.



NAPOMENA:

- Ako je ORP sonda natopljena pogrešnom otopinom, plavi LED indikator će nastaviti treptati dok se sa sondom ne rukuje ispravno. U suprotnom će se vratiti na početni zaslon nakon 10 minuta.
- Ovaj korak se također može preskočiti dodiranjem .
- Prije kalibracije ili zamjene sonde, ventil elektrolitičke ćelije treba zatvoriti kako bi se izbjeglo curenje.
- Zadani način kalibracije pH je "pH 7 i pH 10", možete odabrati drugačiji način kalibracije pH ovisno o vrsti vaše otopine za kalibraciju. **【Postavka P0】** (Pt 5.4.7)

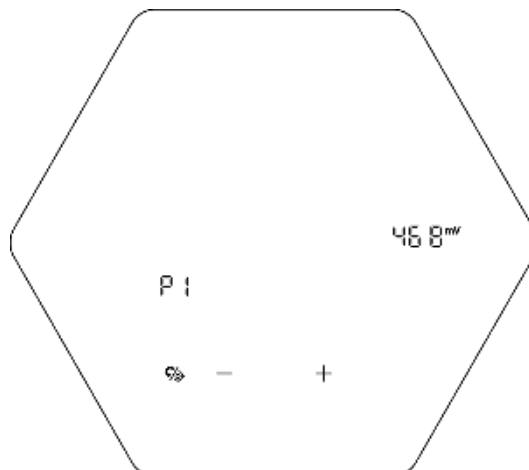
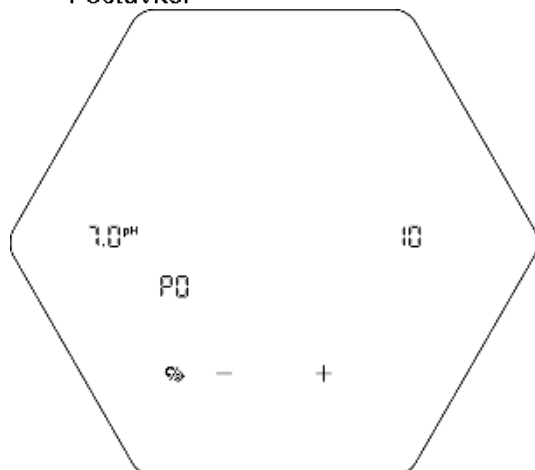
5.4.6 Kombinirane naredbe i operacije

Kombinacije	Funkcija
Na početnom zaslonu držite tipke  i  3 sekunde	Odabir načina proizvodnje klor
Na početnom zaslonu dodirnite  za ulazak u postavke, držite  i  3 sekunde	Konfiguracija mreže (Wi-Fi)
Kada je klorinator isključen, držite tipke  i  3 sekunde	Provjera doza
Kada je klorinator isključen, držite  3 sekunde	Postavke sustava
Na početnom zaslonu dodirnite  za ulazak u postavke, držite  i  3 sekunde	Vrati tvorničke postavke

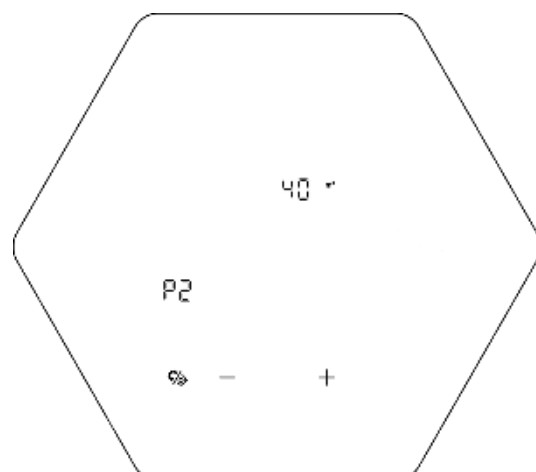
5.4.7 Postavke sustava

Broj	Naziv stranice postavki	Opcija
P0	Način kalibracije pH	1: PH4、PH7 2: PH4、PH9.21 3: PH4、PH10 4: PH7、PH9.21 5: PH7、PH10 (Default)
P1	Vrijednosti kalibracije ORP-a	Raspon od 200-600mv, 468mv (zadano)
P2	Volumen bazena	Raspon od 0-100 m3, 40 m3 (zadano)
P3	Lokalno vrijeme	00:00-23:59 Lokalno vrijeme bit će osvježeno kada se uspostavi Wi-Fi veza.
P4	Interval obrnute polarnosti	2h, 4h (Zadano) , 6h
P5	A1: ACID TANK(SPREMNIK ZA KISELINU) E2: Zadana pH vrijednost nije dosegnuta	0: Off 1: On (Zadano)
P6	A2 : ADD SALT(DODAJTE SOL)	0: Off 1: On (Zadano)
P7	EA: Zadana vrijednost ORP-a nije dosegnuta	0: Off (Zadano) 1: On
P8	A5: Podsjetnik za kalibraciju sonde (svakih 180 dana)	0: Off (Zadano) 1: On ● Vrlo je važno provesti kalibraciju pH sonde na početku svake sezone korištenja prilikom ponovnog puštanja u rad i nakon svake zamjene sonde.
P9	Vijek trajanja elektrodnih ploča	● Prikaži vijek trajanja elektrodnih ploča (sati) ● Držite pritisnute tipke i 3 sekunde za resetiranje.
PA	Zaštita od pokrivača za bazen	Raspon od 0-30%, 30% (zadano)

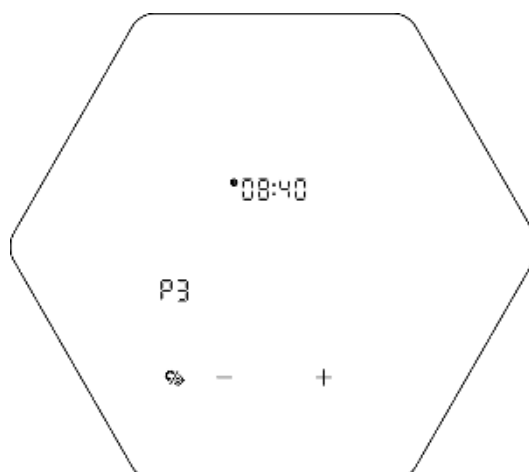
- Na početnom zaslonu dodirnite , isključite klorinator (ISKLJUČITE napajanje).
- Zatim držite  za ulazak u Postavke sustava.
- Dodirnite  ili  za odabir opcija, dodirnite  za prelazak na sljedeću stranicu Postavke.



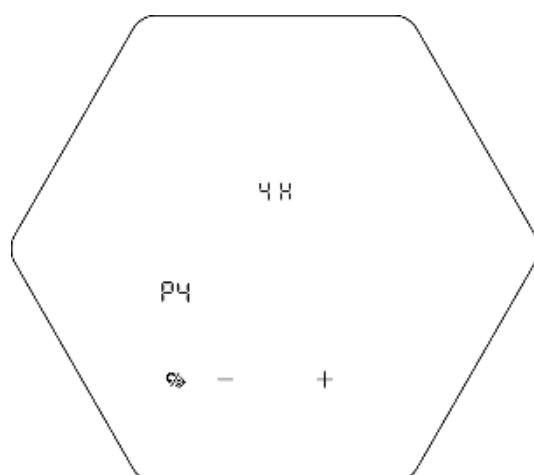
Kalibracijski mod pH (P0)



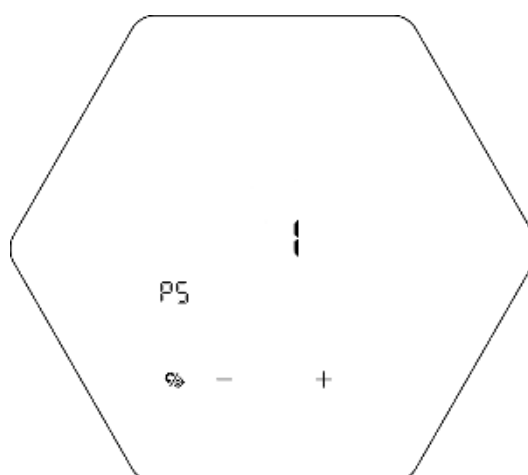
Kalibracijske vrijednosti (P1)



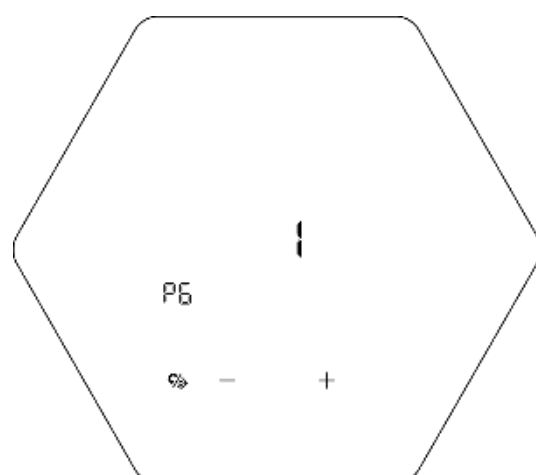
Volumen bazena (P2)



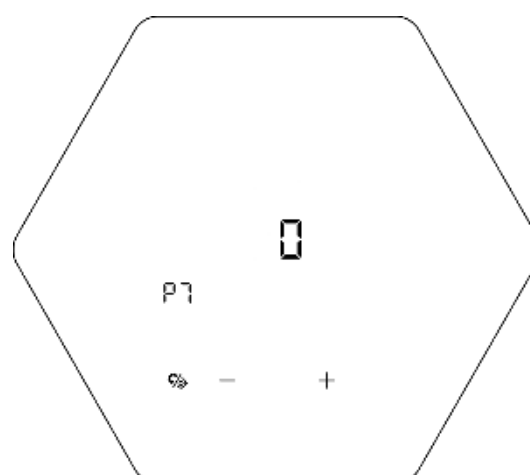
Lokalno vrijeme (P3)



Interval izmjene polariteta (P4)

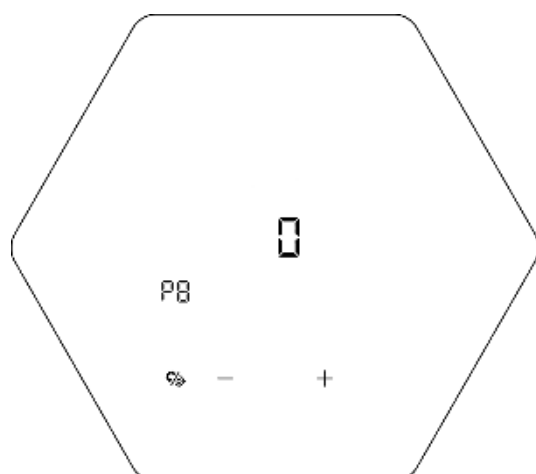


A1 + E2 alarm (P5)

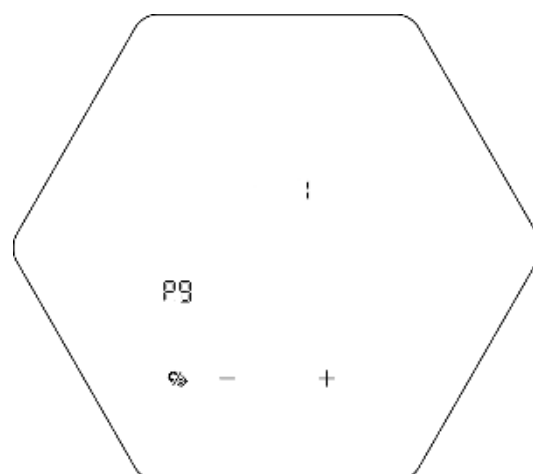


A2 alarm (P6)

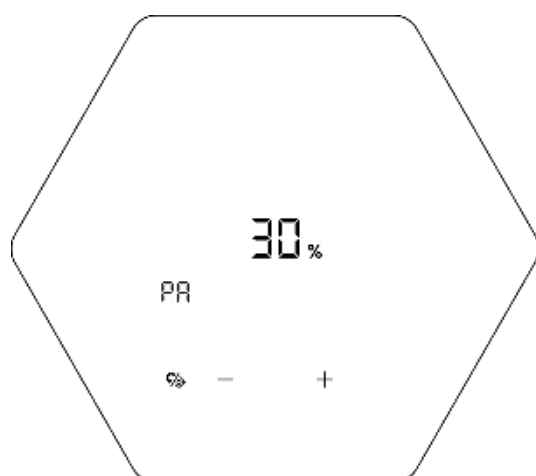
EA alarm (P7)



A5 alarm (P8)



trajnost elektrolitskih ploča (P9)



Zaštita bazenskog pokrivača (PA)

5.4.8 Vрати tvorničke postavke

- ① Prilikom uključivanja upravljačke jedinice, na početnom zaslonu dodirnite  za ulazak u postupak podešavanja.
- ② držite $+$ i $=$ 3 sekunde, čut ćete dugi zvučni signal i klorinator će se vratiti na tvorničke postavke, a cijeli zaslon će se osvijetliti 2 sekunde.
- ③ Zatim se automatski vratite na glavni zaslon.



Parametar	Zadano	Povezani način rada
Zadana vrijednost pH	7.2	Inverter
Zadana vrijednost ORP-a	700mv	Inverter
Proizvodnja klora	100%	Manual
Volumen doziranja pH	50	Manual
Vrijeme uključivanja timera 1	00: 00	
Vrijeme isključivanja timera 1	00: 00	
Vrijeme uključivanja timera 2	00: 00	
Vrijeme isključivanja timera 2	00: 00	
VS Brzina pumpe	L - 1	
Postavke sustava	Zadano	Način rada
【P0】 Način kalibracije pH	5: PH7.0、PH10	Inverter
【P1】 Vrijednosti kalibracije ORP-a	468	Inverter
【P2】 Volumen bazena	40	
【P3】 Lokalno vrijeme	00: 00	
【P4】 Interval obrnute polarnosti	4	
【P5】 A1: ACID TANK(SPREMNIK ZA KISELINU) E2: Zadana pH vrijednost nije dosegnuta	1	
【P6】 A2: ADD SALT (DODAJTE SOL) EC: Zaštita od niskog sadržaja soli	1	Inverter
【P7】 EA: Zadana vrijednost ORP-a nije dosegnuta	0	Inverter
【P8】 A5: Podsjetnik za kalibraciju sonde(Svakih 180 dana)	0	
【P9】 Vijek trajanja elektrodnih ploča	0	
【PA】 Zaštita od pokrivača za bazen	30%	

6. Dopunjavanje soli

 Klorinator mora ostati ISKLJUČEN tijekom ovog postupka, sve dok se aditiv potpuno ne otopi. Rad klorinatora s neotopljenom soli mogao bi nepovratno oštetiti čeliju i napajanje te dovesti do poništenja jamstva.

Izračunajte volumen bazena i dodajte 3 do 5 kg soli po kubnom metru. Preporučeni salinitet je 3-5 g/L. Pazite da je klorinator isključen tijekom cijelog procesa i uključite sustav filtracije da radi najmanje 24 sata nakon operacije.

 Za sve nove bazene pričekajte četiri tjedna prije dodavanja soli u nedavno cementno obložene bazene ili o tome razgovarajte s graditeljem bazena.

Proces otapanja soli može se ubrzati korištenjem sredstva za čišćenje bazena. Provjerite je li koncentracija soli između 3 i 5 kg/m³ pomoću kompleta iz specijalizirane trgovine za bazene.

Koncentracija soli može se s vremenom smanjiti zbog kiše ili drugih periodičnih utjecaja slatke vode (dopunjavanje, ispiranje itd.). Kad god je potrebno ispraviti koncentraciju soli, ulijte sol što bliže povratnim vodovima. Nikada ne ulijevajte sol u skimere ili u odvodni otvor.

7 Održavanje

7.1 Čišćenje elektroda

Pametni sustav inverzije polariteta dizajniran je kako bi spriječio koroziju i kamenac na elektrodama (zadana postavka = 4 sata). Međutim, povremeno čišćenje može biti potrebno kada je tvrdoća vode previsoka.

Postupak čišćenja naveden je u nastavku:

- ① Isključite klorinator i filter, zatvorite izolacijske ventile i provjerite je li napajanje isključeno na izolacijskoj sklopki.
- ② Okrenite ćeliju unatrag i napunite je otopinom za čišćenje tako da elektrode budu uronjene. Ne dopustite da se sklop poklopca ćelije uroni.
- ③ Ostavite otopinu za čišćenje da otopi naslage kamenca oko 15 minuta. Otopinu za čišćenje odložite na odobreno mjesto za recikliranje otpada, nikada je ne ulijevajte u sustav odvodnje kišnice ili u kanalizaciju.
- ④ Isperite elektrodu čistom vodom i vratite je na obujmicu za fiksiranje ćelije (postoji oznaka za poravnanje).
- ⑤ Otvorite izolacijske ventile i ponovno pokrenite filtriranje i klorinator.
- ⑥ Ako ne koristite komercijalno dostupnu otopinu za čišćenje, možete je sami napraviti pažljivim miješanjem 1 volumena klorovodične kiseline s 9 volumena vode (Upozorenje: uvijek ulijte kiselinu u vodu, a ne obrnuto, te nosite odgovarajuću zaštitnu opremu!).
- ⑦ Provjerite je li postavka ciklusa promjene polariteta prilagođena tvrdoći vode u bazenu.

7.2 Održavanje ORP sonde

7.2.1 Čišćenje sonde

U svakom slučaju, čišćenje se preporučuje svakih 6 mjeseci. Općenito, nečistoće i masnoća nakupljene na elektrodama također mogu uzrokovati pogreške u mjerenju.

Koraci čišćenja su sljedeći:

- ① Prije kalibracije ili zamjene sonde, ventil elektrolitičke ćelije treba zatvoriti kako bi se izbjeglo curenje.
- ② Isključite klorinator i odvrnite sondu iz držača.
- ③ Temeljito očistite sondu u čistoj, po mogućnosti destiliranoj vodi. Protresite sondu kako biste uklonili vodu. Po potrebi upotrijebite pamučnu maramicu ili papirnati ubrus.
- ④ Uključite upravljačku jedinicu, umetnite sondu u standardnu otopinu za kalibraciju (zadano 468 mV) i dovršite postupak kalibracije.
- ⑤ Potrebno je provesti kalibraciju ORP sonde na početku svake sezone korištenja prilikom povratka u pogon i nakon svake zamjene sonde.

7.2.2 Pohrana

U slučaju zatvaranja bazena tijekom zimske sezone, izvadite sondu iz ćelije i pohranite je na temperaturi od +5 do +30 °C u spremniku za sondu napunjenom otopinom za pohranu.

Druge metode pohrane se ne preporučuju.

NAPOMENA: Nikada ne ostavljajte sondu vani. Ako je sonda neko vrijeme bila na suho, može se regenerirati standardnom otopinom za kalibraciju.

7.3 Održavanje pH sonde

7.3.1 Održavanje

Preporučuje se čišćenje i provjera sonde svakih 6 mjeseci. Općenito, nečistoće i masnoća nakupljene na elektrodama također mogu uzrokovati pogreške u mjerenju. Koraci čišćenja su sljedeći:

- ① Prije kalibracije ili zamjene sonde, ventil elektrolitičke ćelije treba zatvoriti kako bi se izbjeglo curenje.
- ② Isključite klorinator i odvrnite sondu iz držača.
- ③ Umiješajte sondu u čaši vode u kojoj je otopljena žlica deterdženta.④ Operite je pod mlazom vode i ostavite je nekoliko sati u čaši vode u koju je dodano 1 cm³ klorovodične kiseline.
- ④ Temeljito očistite sondu u čistoj vodi, protresite je kako biste uklonili vodu. Po potrebi upotrijebite vatu ili papirnati ubrus.
- ⑤ Uključite upravljačku jedinicu i ponovno kalibrirajte sondu.
- ⑥ **Potrebno je provesti kalibraciju pH sonde na početku svake sezone korištenja prilikom povratka u pogon i nakon svake zamjene sonde.**

7.3.2 Pohrana

U slučaju zatvaranja bazena tijekom zimske sezone, izvadite sondu iz ćelije i pohranite je na temperaturi od +5 do +30 °C u spremniku za sondu napunjenom otopinom za pohranu.

Druge metode pohrane se ne preporučuju.

NAPOMENA:

- Ako se dobro održava, sonda može trajati dvije ili tri godine. Kada je sonda izložena zraku, treba staviti originalni poklopac ili je uroniti u čašu vode.
- Ako je sonda ostavljena da se osuši, može se regenerirati ostavljanjem 12 sati u čaši vode, po mogućnosti dodavanjem nekoliko kapi klorovodične kiseline.

7.4 Održavanje dozatora

Da biste provjerili da li dozator ispravno radi ili ne, koraci su sljedeći:

- ① Provjerite jesu li crijeva dozatora i PE cijevi za kiselinu spojeni i čvrsto pričvršćeni.
- ② Provjerite razinu tekućine u spremniku kiseline i provjerite je li PE cijev za kiselinu spojena na usisni ventil u spremniku.
- ③ Slavinom  isključite klorinator (ISKLUČENO).
- ④ Držite tipke  i  pitisnite 3 sekunde, nakon čega se oglašava dugi zvučni signal.
- ⑤ Dozator će se automatski okretati 30 sekundi.
- ⑥ Promatrajte je li otopina kiseline napunjena u PE cijevima za kiselinu i peristaltičkoj cijevi.
- ⑦ Kada se otopina kiseline istisne kroz cijev dozatora kako bi se skupila voda, dozator je spreman.
- ⑧ Slavinom  uključite klorinator (UKLJUČENO).

NAPOMENA:

- **Inverterski način rada i automatski pH način rada:** Dozator će se redovito okretati svake 3 minute, s ubrizgavanjem 80 ml kiseline po rotaciji (trajanje 30 sekundi).
- **Ručni način rada:** Dozator će se okretati prema **【Postavci volumena doziranja pH】**. Valjak dozatora će se okretati 30 sekundi i ubrizgavati oko 80 ml kiseline svaki put. Učestalost ubrizgavanja temelji se na postavci volumena doziranja pH (24 sata) i vremenu rada klorinatora u svakih 24 sata.
- Kada je stvarna pH vrijednost jednaka ili niža od zadane vrijednosti pH, dozator će se prestati okretati.
- Kada detekcija pH sonde ne uspije ili se prikaže alarm E3 (nema protoka), dozator će se prestati okretati.

8 Priprema za zimu i zaštita od niskih temperatura

Klorinator ima zaštitu od niske temperature kako bi se ograničila proizvodnja klora (%) u lošim radnim uvjetima poput hladne vode (zima).

Aktivna zimska zaštita = filtriranje i klorinator radi zimi:

Pasivna zimska zaštita = niža razina vode i ispražnjene cijevi: ostavite elektrodne ploče suhima u ćeliji s otvorenim izolacijskim ventilima.

Zaštita od niske temperature:

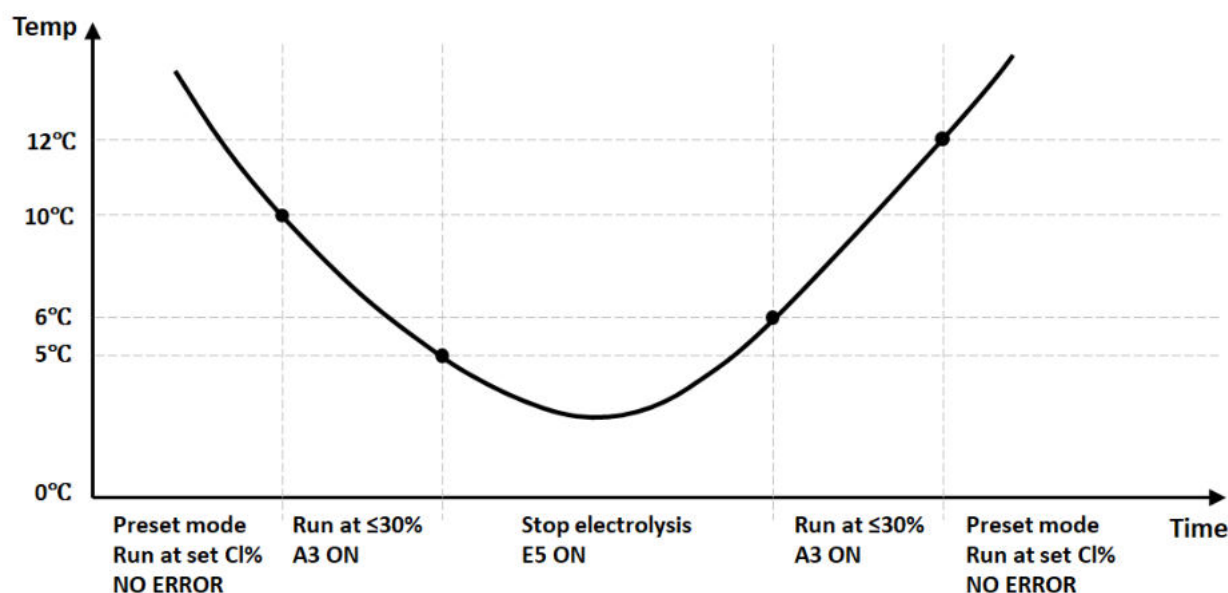
Kada temperatura vode padne:

- Temperatura vode $\geq 10^{\circ}\text{C}$: Klorinator radi u unaprijed postavljenom načinu rada (inverter, automatski pH).
- $5^{\circ}\text{C} \leq$ Temperatura vode $< 10^{\circ}\text{C}$: Klorinator radi, proizvodnja ograničena na 30%, A3 je uključen.
- Temperatura vode $< 5^{\circ}\text{C}$: Elektroliza isključena. E5 je uključen.

Kada temperatura vode poraste:

- Nakon što je E5 uključen, temperatura vode $< 6^{\circ}\text{C}$, elektroliza se zaustavlja.
- $6^{\circ}\text{C} \leq$ Temperatura vode $\leq 12^{\circ}\text{C}$: Klorinator radi, ograničen na 30%, E5 isključen, A3 uključen.
- Temperatura vode $> 12^{\circ}\text{C}$: A3 isključen, Klorinator se oporavlja i nastavlja raditi u unaprijed postavljenom načinu rada.

Primjer grafikona u nastavku: temperatura pada, a zatim raste.



Napomena:

- Temperaturni senzor mora biti instaliran ako vam je potrebna zaštita od niske temperature.

9 Zaštita od pregrijavanja

Zaštita od pregrijavanja aktivirat će se kada temperatura napajanja unutar glavne upravljačke jedinice bude viša ili jednaka 70 °C.

Visoka temperatura (Napajanje)	$70^{\circ}\text{C} \leq \text{Temperatura} \leq 80^{\circ}\text{C}$	A. Došlo je do greške A4. Izlaz elektrolize ograničen na 30%
Previsoka temperatura (Napajanje)	$\text{Temperatura} > 80^{\circ}\text{C}$	A. Došlo je do greške E4 i elektroliza je zaustavljena B. Temperatura $< 68^{\circ}\text{C}$, E4 i A4 su isključeni, elektroliza ponovno počinje.

10 Upute za Wi-Fi i aplikaciju iGarden

10.1 Start-Up

10.1.1 Preuzmite aplikaciju na pametni telefon

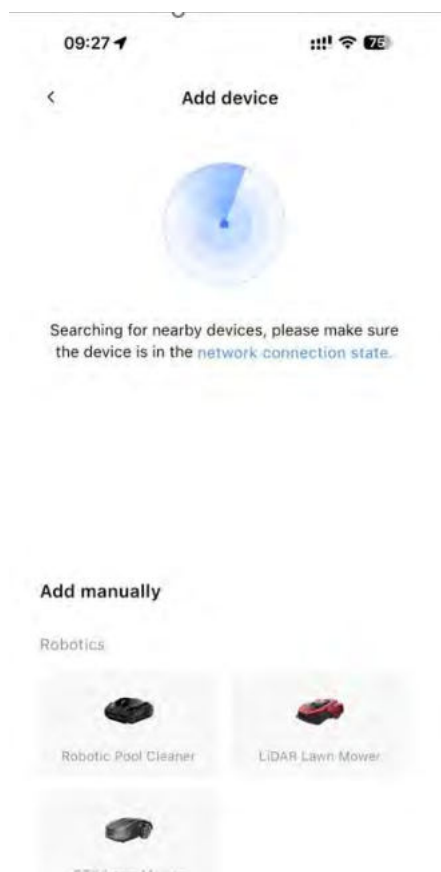
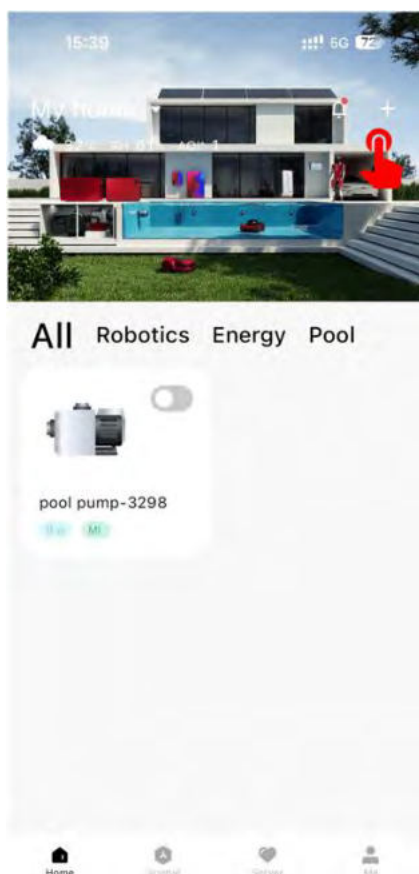
Aplikacija „iGarden“ dostupna je na App Storeu i Google Playu. Skenirajte sljedeći QR kod za preuzimanje:



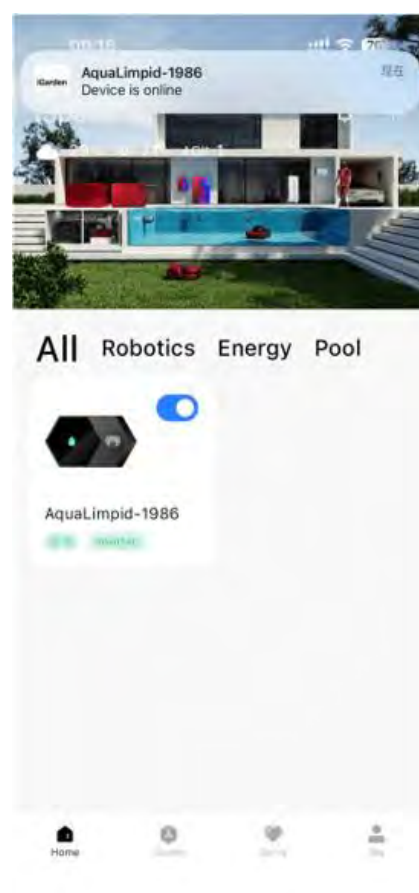
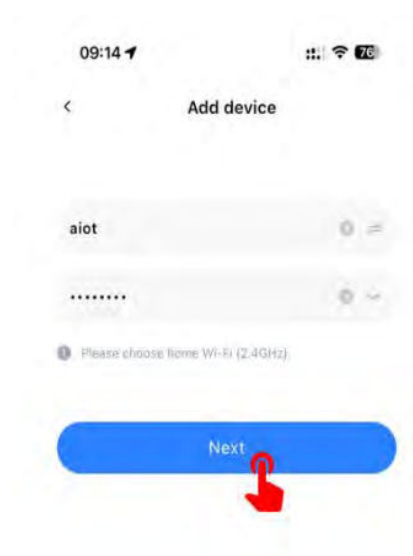
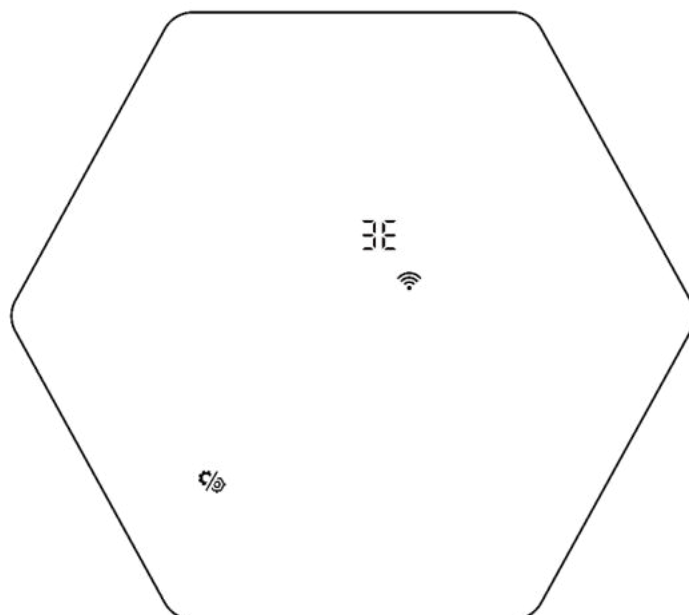
10.2 Konfiguracija mreže

10.2.1 Automatsko skeniranje

- ① Uključite lokalni klorinator, Wi-Fi uređaj, Bluetooth na mobitelu.
- ② Uđite u aplikaciju „iGarden“, dodirnite ikonu „+“ u gornjem desnom kutu početne stranice, a zatim dodirnite „Dodaj uređaj“.

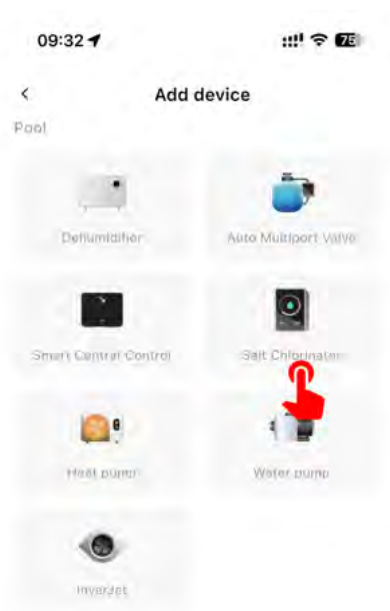
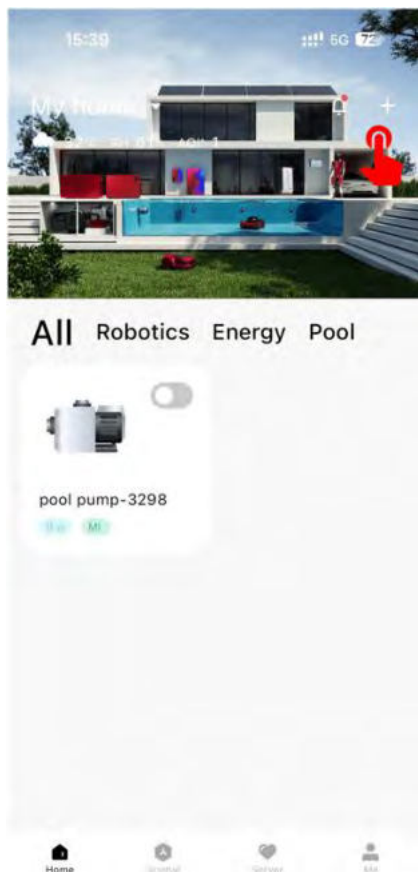


- ③ Kada je klorinator na početnom zaslonu, dodirnite  za ulazak u postavke, držite  i  3 sekunde, kada se začuje isprekidani zvučni signal i ulazi se u način mrežne veze **【3E】** .
- ④ Kada vaš telefon pronade klorinator, on će se prikazati na vašem telefonu. Dodirnite "Dalje", unesite lozinku za Wi-Fi i dodirnite "Dalje". Uređaj će se zatim automatski povezati s aplikacijom.

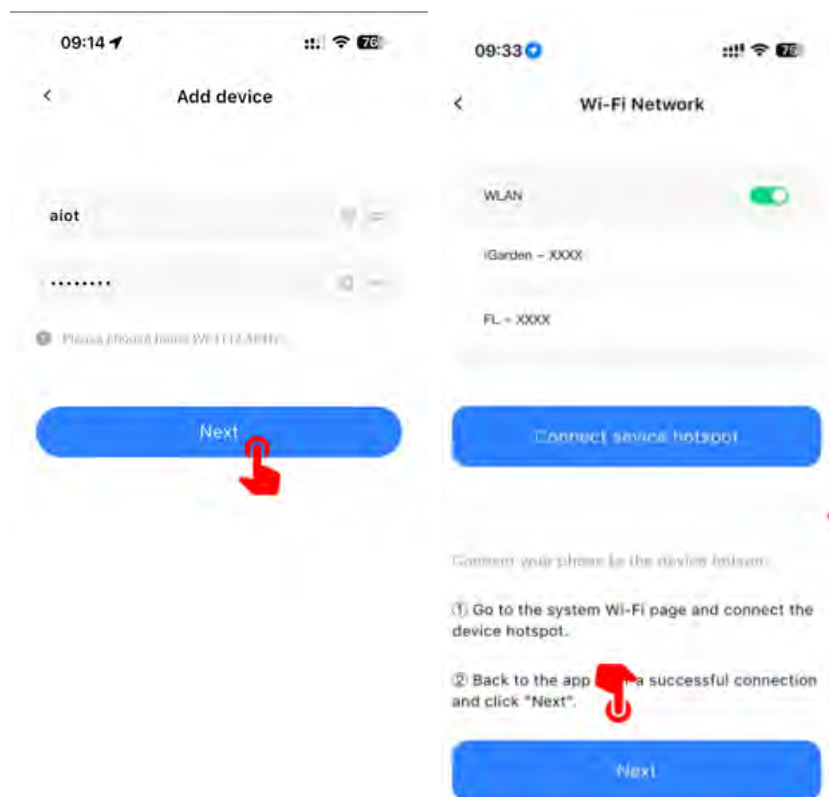
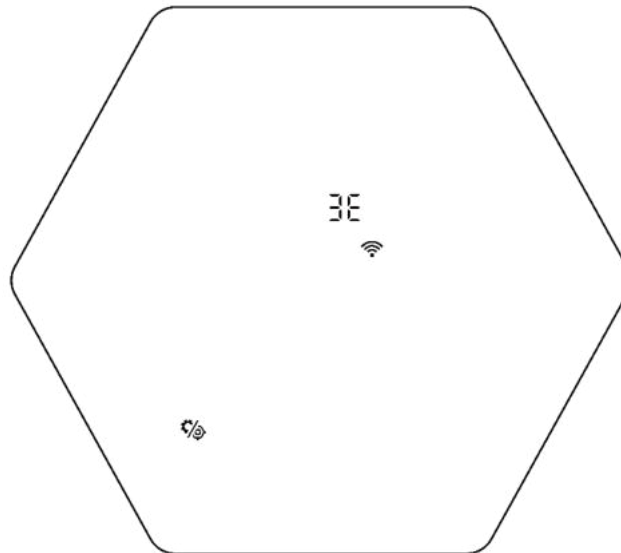


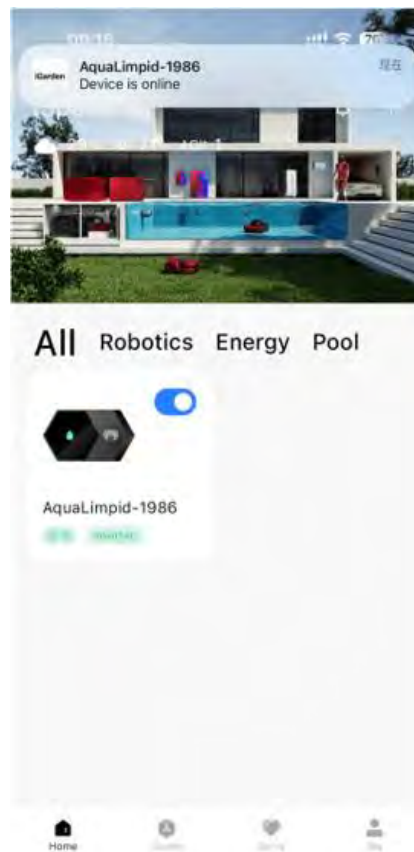
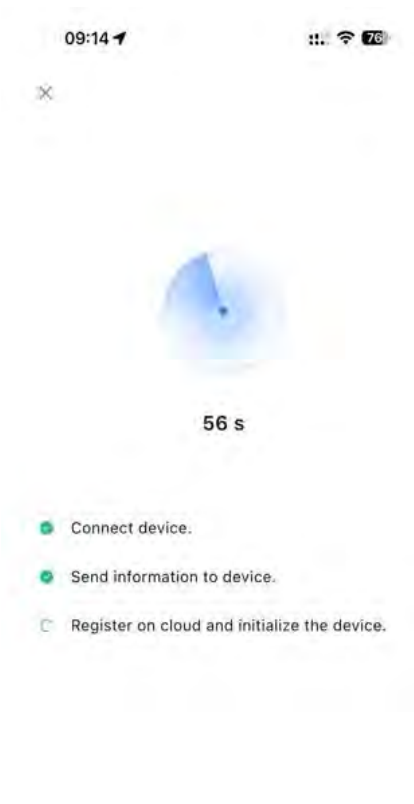
10.2.2 Wi-Fi pristupna točka

- ① Uključite lokalni klorinator, Wi-Fi uređaj, Bluetooth na mobitelu.
- ② Uđite u aplikaciju „iGarden“, dodirnite ikonu „+“ u gornjem desnom kutu početne stranice, a zatim dodirnite „ikonu klorinatora soli“ i ručno ga dodajte.



- ④ Unesite lozinku za kućni WiFi i dodirnite "Next".
- ⑤ Kada je klorinator na početnom zaslonu, dodirnite  za ulazak u postavke, držite  i + 1,5 sekundi, kada se začuje isprekidani zvučni signal i uđete u način mrežne veze **【3E】**.
- ⑥ Nakon što klorinator uđe u način mrežne veze **【3E】**, spojite svoj mobitel na pristupnu točku kako slijedi:

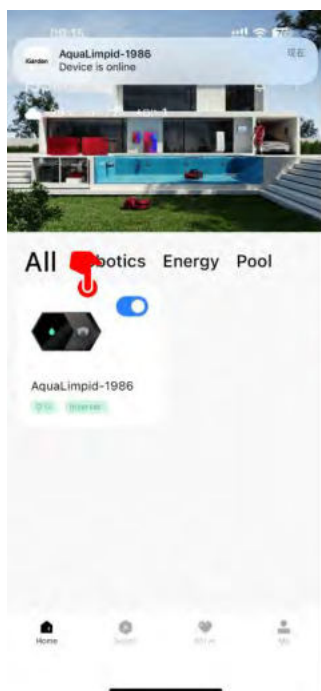




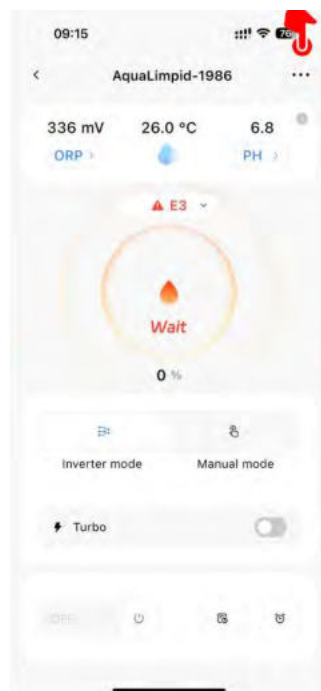
10.3 Ukloni kontrolu

Nakon konfiguracije mreže:

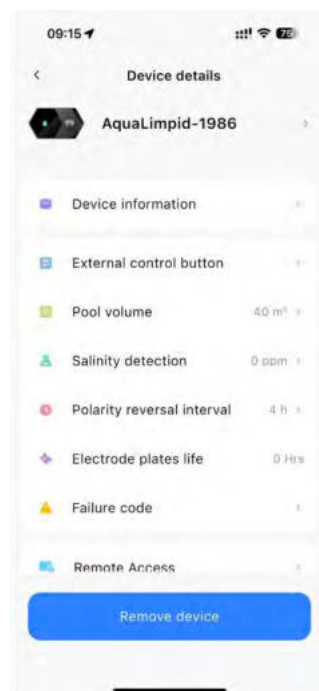
- ① Na početnom zaslonu iGardena korisnik može dodirnuti ikonu klorinatora za ulazak u glavni zaslon. Ili uključiti/isključiti klorinator plavim klizačem.
- ② Glavni zaslon klorinatora prikazuje parametre statusa i način rada u stvarnom vremenu. Korisnik može podesiti postavke, timere i prebaciti se na različite načine rada.
- ③ Dodirnite „...” u gornjem desnom kutu za unos detalja uređaja: Informacije o uređaju, vanjsko upravljanje, volumen bazena, izračun slanosti, interval promjene polariteta, vijek trajanja elektroda, kod greške, uklanjanje pristupa.



iGarden početni zaslon



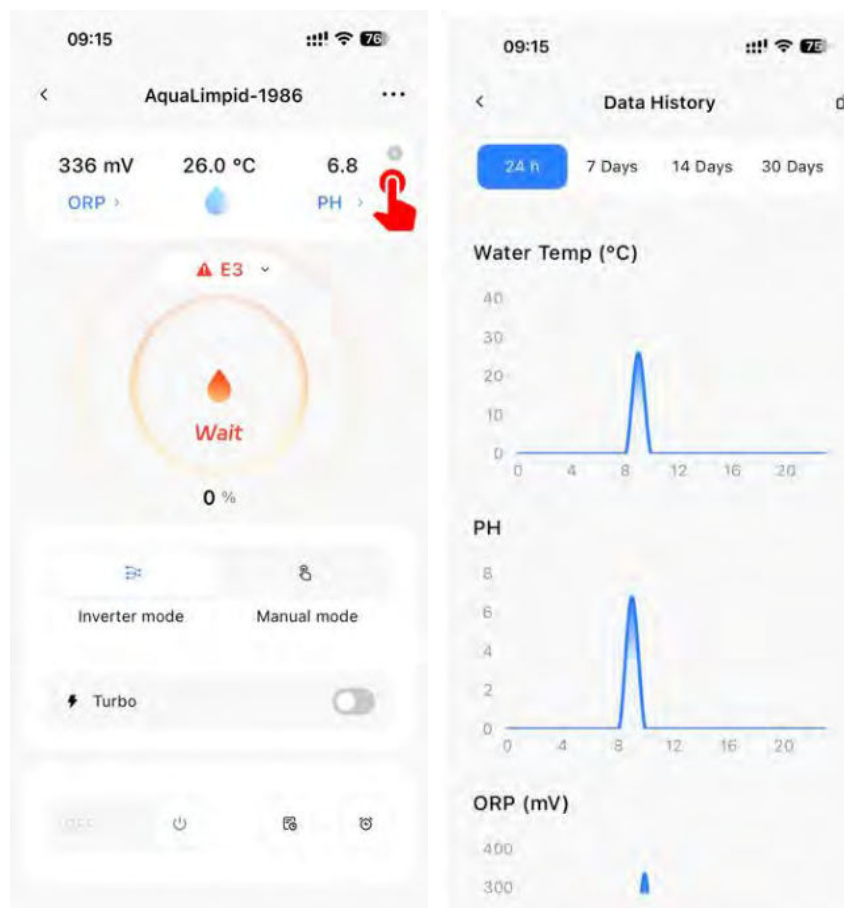
Podaci o uređaju



Detalji uređaja

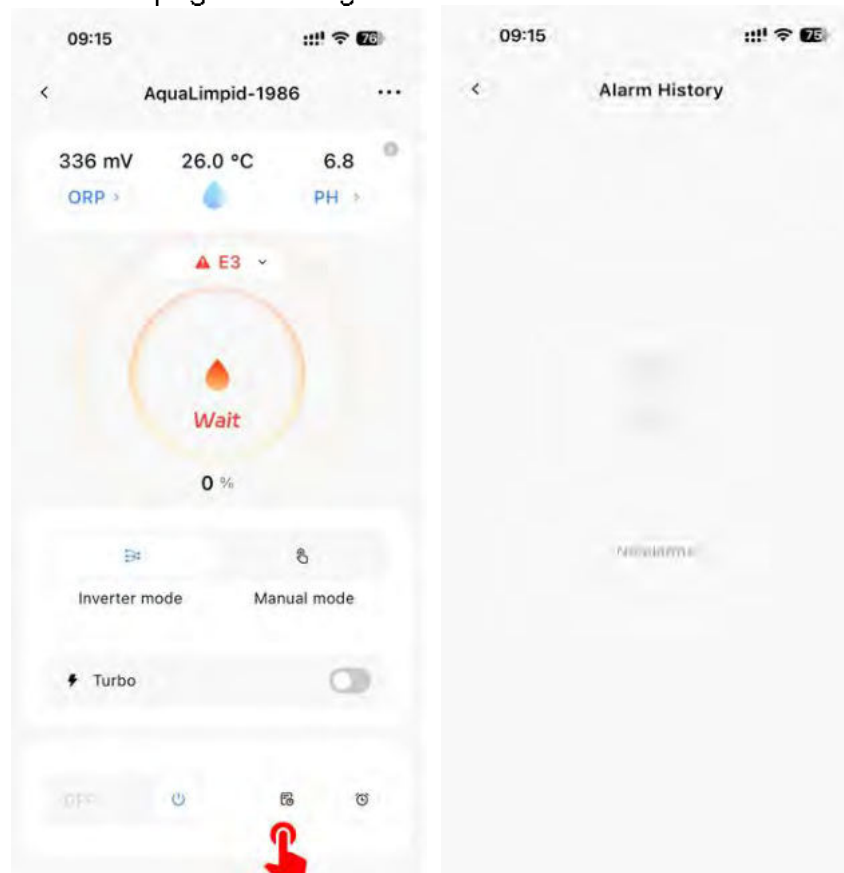
10.3.1 Povijest podataka

- ① Unesite povijest podataka na glavnom zaslonu klorinatora.
- ② Prikazuju se podaci za posljednja 24 sata, 7 dana, 14 dana ili 30 dana.
- ③ Dodirnite ikonu  u gornjem desnom kutu za povećanje tablice podataka.



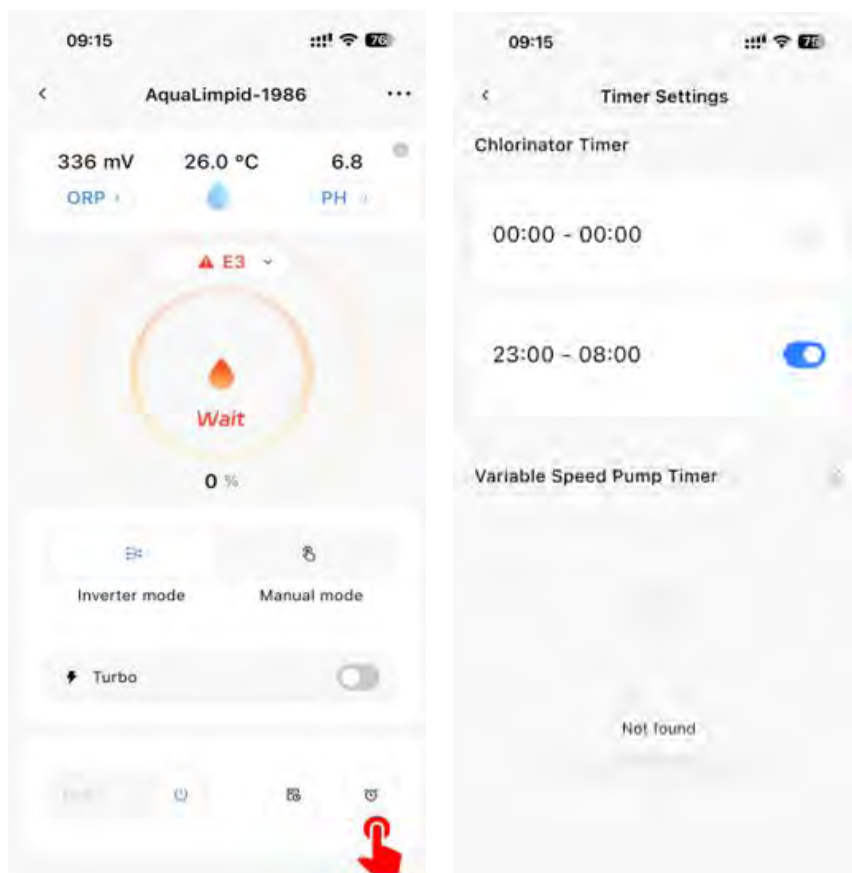
10.3.2 Povijest alarma ili grešaka

Unesite povijest alarma ili pogrešaka na glavnom zaslonu klorinatora.



10.3.3 Postavke timera

Unesite postavke timera na glavnom zaslonu klorinatora.

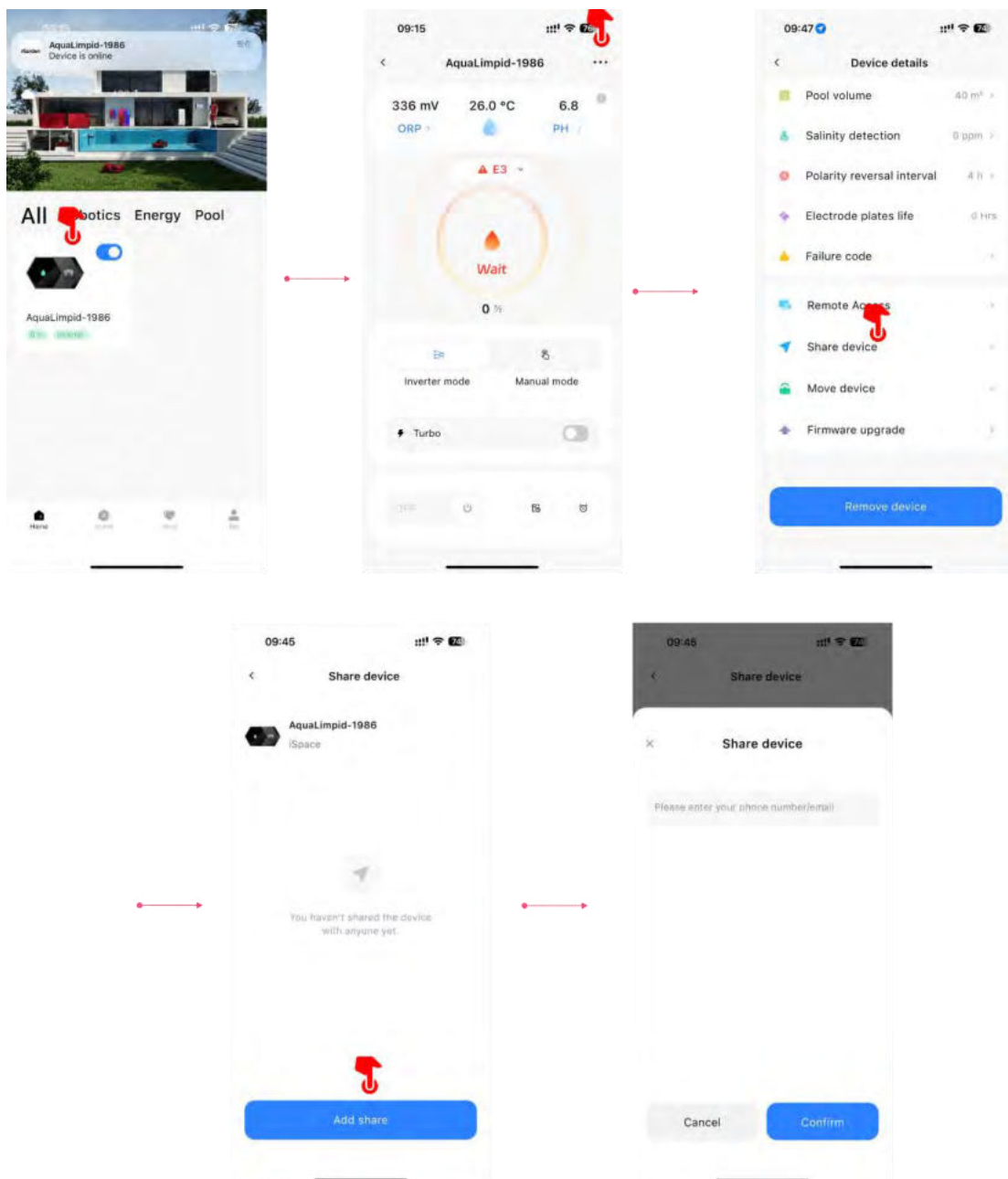


10.4 OTA Nadogradnja

- ① Kada je nadogradnja dostupna, pojavit će se informacije o nadogradnji i dodirnite "Update Now".
- ② Ili dodirnite ikonu kista u gornjem lijevom kutu zaslona za ulazak u zaslon postavki.
- ③ Dodirnite "Device Upgrade" pri dnu za nadogradnju.

10.5 Dijeljenje uređaja

- ① Preuzmite aplikaciju „iGarden“.
- ② Uđite u Postavke aplikacije i dodirnite „Share Device“.
- ③ Dodajte broj mobitela odgovarajuće osobe s kojom se dijeli.
- ④ Korisnik s kojim se dijeli može istovremeno vidjeti podatke o uređaju.



10.6 Promjena postavki jezika

- ① Kliknite "Me" u donjem desnom kutu.
- ② Kliknite gumb "Setting".
- ③ Povucite prstom prema dolje i odaberite "Language" za prebacivanje na ciljni jezik.

11 Šifra pogreške i rješenje

Kod pogreške	Učinak	Okidač	Eliminacija	Napomena
E1 Nenormalno napajanje	Pauziraj proces elektrolize	Kada je proizvodnja klor postavljena na > 10%, ali je detektirani istosmjerni izlaz u stvarnom vremenu prenizak	Automatski nastavlja normalan rad kada se istosmjerni izlaz vrati u normalan raspon.	1. Provjerite spoj elektroda. 2. Provjerite elektrolitičku ćeliju na prekomjerno nakupljanje kamenca ili gubitak premaza. 3. Ponovno pokrenite upravljačku jedinicu klorinatora. 4. Obratite se postprodajnom centru.
E2 Zadana pH vrijednost nije dosegnuta Inverter	Pauzirajte proces dodavanja kiseline	Očitavanja pH vrijednosti nisu dostigla zadane vrijednosti. ALS14: 24 h; ALS21: 48 h; ALS28: 72 h; ALS33: 72 h.	1. Ponovno pokrenite klorinator. 2. Automatski nastavite normalan rad kada se zadane vrijednosti pH izjednače s prethodnim očitanjem.	1. Testirajte pH s drugom opremom. 2. Uravnotežite pH razinu dodavanjem dodatnih kemikalija. 3. Pokušajte sljedeće redom: ● Provjerite spojeve sonde. ● Očistite sondu. ● Kalibrirajte sondu i ponovno testirajte pH. ● Zamijenite sondu. 4. Funkcija alarma E2 može se isključiti u 【P5】.
E3 Nema protoka	Pauzirajte proces elektrolize i proces dodavanja kiseline	Detektovani status protoka je "ISKLUČENO"	Automatski nastavlja normalan rad kada se detektira status prekidača protoka "UKLUČENO".	Nedovoljan protok vode može biti uzrokovan: 1. Izlazom filtracijske pumpe. 2. Zatvorenim ventilom za vodu. 3. Drugim mogućim razlozima.

E4 Zaštita od pregrijavanja upravljačke jedinice	Pauziraj proces elektrolize	Unutarnja temperatura upravljačke jedinice je iznad 80°C	Upravljačka jedinica se vratila na 68°C, E4 se isključio.	Prilikom postavljanja treba izbjegavati izravnu sunčevu svjetlost ili visoku vlagu, preporučuje se zaštićeno mjesto.
E5 Niska TEMPERATURA u ćeliji	Pauziraj proces elektrolize	Temperatura vode koju je detektirao temperaturni senzor je ispod 5°C.	Temperatura vode viša od 6°C, E5 isključeno.	Pojavljuje se samo kada je instaliran temperaturni senzor.
E6 Zrak u ćeliji	Pauzirajte proces elektrolize i proces dodavanja kiseline	Razina vode u elektroliznoj ćeliji je niska, senzor zraka je u kontaktu sa zrakom.	Provjerite je li razina vode u ćeliji visoka, a senzor zraka ispod razine vode.	Moguće je da uzrok: 1. Izlaz filtracijske pumpe. 2. Zatvoren ventil za vodu. 3. Drugi mogući razlozi.
E7 Kvar pH senzora Inverter	Pauzirajte proces dodavanja kiseline	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	1. Ponovno pokrenite upravljačku jedinicu klorinatora. 2. Isključite napajanje na 10 sekundi i ponovno uključite upravljačku jedinicu klorinatora. 3. Vratite na tvorničke postavke. 4. Obratite se postprodajnom centru.
E8 Kvar ORP senzora Inverter	Pauziraj proces elektrolize	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	1. Ponovno pokrenite upravljačku jedinicu klorinatora. 2. Isključite napajanje na 10 sekundi i ponovno uključite upravljačku jedinicu klorinatora. 3. Vratite na tvorničke

				postavke. 4. Obratite se postprodajnom centru.
E9 Kvar modula napajanja	Pauziraj proces elektrolize	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	Došlo je do hardverske komunikacijske greške unutar upravljačke jedinice.	1. Ponovno pokrenite upravljačku jedinicu. 2. Isključite napajanje na 10 sekundi i ponovno uključite upravljačku jedinicu. 3. Vratite na tvorničke postavke. 4. Obratite se postprodajnom centru.
EA Zadana vrijednost ORP-a nije dosegnuta Inverter	Pauziraj proces elektrolize	ORP očitavanja nisu dosegla zadane vrijednosti. Alarm se uključuje nakon 72 sata.	Automatski nastavlja normalan rad kada su zadane vrijednosti ORP-a jednake prethodnom očitanju.	1. Testirajte razinu slobodnog klora s drugom opremom i provjerite ima li dovoljno klora u bazenu. 2. Napunite bazen odgovarajućom količinom stabilizatora. 3. Dodajte kiselinu za uravnoteženje pH vrijednosti. 4. Aktivirajte TURBO način rada ili dodajte dodatni klor za smanjenje kloramina. 5. Provjerite ima li u ćeliji kamenca ili gubitka premaza. 6. Pokušajte sljedeće redom: ● Provjerite priključak ORP sonde. ● Očistite

				sondu. ● Kalibrirajte sondu i testirajte ORP vrijednost. ● Zamijenite sondu. 7. Funkcija alarma .EA može se isključiti u 【P7】
EC Zaštita od niskog sadržaja soli	Pauziraj proces elektrolize	Detektiran salinitet bazena je ispod 500 ppm	Automatski nastavlja normalan rad kada je salinitet viši od minimalnog praga.	1. Dopunite sol do preporučene razine (3000-3500 ppm). 2. Provjerite temperaturu vode. 3. Provjerite ćeliju na prekomjerno nakupljanje kamenca ili gubitak premaza. 4. Funkcija EC alarma može se isključiti u 【P6】
A1 ACID TANK (SPREMNIK ZA KISELINU)	Indikator svijetli, normalan rad se nastavlja.	Zadane pH vrijednosti još nisu postignute. ALS14: 6 h; ALS21: 12 h; ALS28: 18 h; ALS33: 18 h.	1. Ponovno pokrenite klorinator. 2. Automatski nastavite normalan rad kada se zadane vrijednosti pH izjednače s prethodnim očitanjem.	1. Napunite spremnik kiseline. 2. Provjerite ima li curenja u cijelom sustavu doziranja. 3. Pokušajte sljedeće korake: - Provjerite spojeve pH sonde - Očistite sondu - Kalibrirajte sondu i ponovno testirajte pH vrijednost - Zamijenite sondu 4. Funkcija alarma A1 može se isključiti u 【P5】
A2 ADD SALT (DODAJTE SOL)	Indikator svijetli, normalan rad se nastavlja.	Detektovana slanost bazena je ispod 2000 ppm	Automatski nastavlja normalan rad kada je slanost viša od minimalnog praga.	1. Dopunite sol do preporučene razine (3000-3500 ppm). 2. Provjerite temperaturu vode. 3. Provjerite ćeliju na prekomjerno

				nakupljanje kamenca ili gubitak premaza. 4. Funkcija alarma A2 može se isključiti u 【P6】
A3 Upozorenje na nisku TEMPERATURU u ćeliji	Proizvodnja klora je ograničena na $\leq 30\%$	Temperatura vode koju je detektirao temperaturni senzor je ispod 10°C.	1. Temperatura vode $> 10^{\circ}\text{C}$, radi u unaprijed postavljenom načinu rada. 2. Ako je E5 bio uključen, temperatura vode se vraća na $> 12^{\circ}\text{C}$, klorinator radi u unaprijed postavljenom načinu rada.	Pojavljuje se samo kada je instaliran temperaturni senzor.
A4 Upozorenje na visoku temperaturu upravljačke jedinice	Proizvodnja klora je ograničena na $\leq 30\%$	temperatura upravljačke jedinice je iznad 70°C	1. Upravljačka jedinica je $< 70^{\circ}\text{C}$, klorinator radi u unaprijed postavljenom načinu rada. 2. Ako je E4 bio uključen, upravljačka jedinica se vraća na $< 69^{\circ}\text{C}$, klorinator radi u unaprijed postavljenom načinu rada.	Prilikom postavljanja treba izbjegavati izravnu sunčevu svjetlost ili visoku vlagu, preporučuje se zaštićeno mjesto.
A5 CALIBRATE(KALIBRIRATI)	Indikator svijetli, normalan rad se nastavlja.	Kalibracija nije završena dulje od 90 dana	1. Vratite tvorničke postavke 2. Završite kalibraciju.	Funkcija alarma A5 može se isključiti u 【P8】

12 Postprodajna podrška

Važne informacije za postprodajnu podršku

Kako bismo vam mogli učinkovito pomoći kada kontaktirate našu postprodajnu službu, pripremite sljedeće informacije:

Informacije o proizvodu

- Serijski broj (nalazi se na natpisnoj pločici)
- Model uređaja

Opis problema

- Prikaz koda pogreške
- Očitavanja uređaja i status proizvodnje
- Učestalost i vrijeme problema

Okruženje korištenja

- Veličina bazena, unutarnji/vanjski
- Stvarna slanost i ORP, pH, razine slobodnog klora
- Protok vode i vrijeme filtracije

Pružanje ovih informacija pomoći će nam da učinkovitije riješimo vaš problem. Hvala vam!