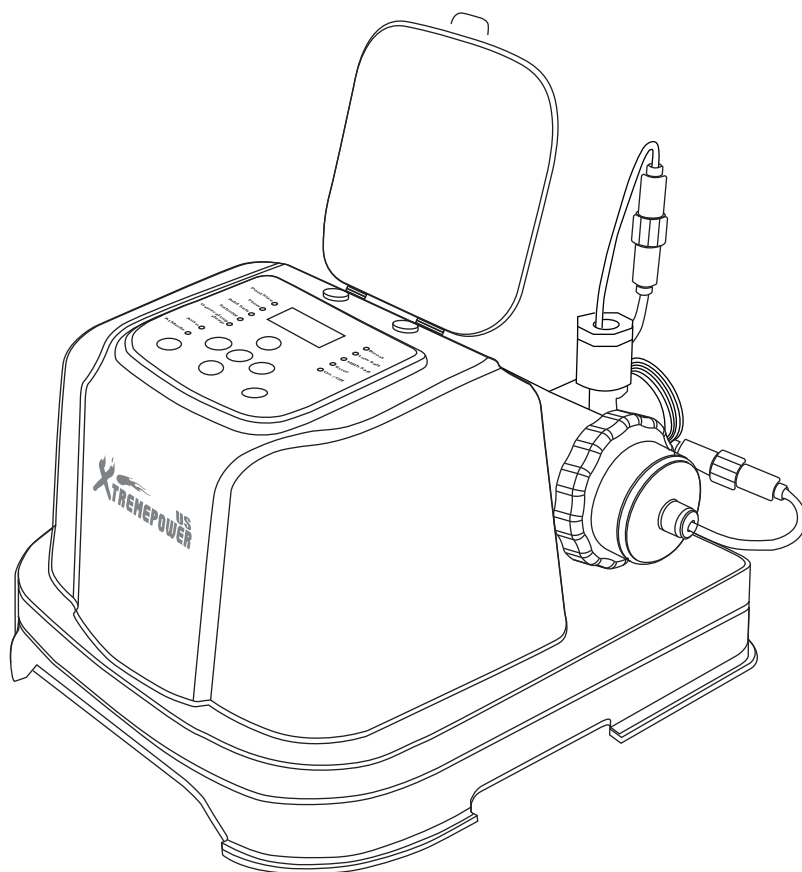




ABOVE-GROUND POOL SALT CHLORINATOR
5,000 / 10,000 / 20,000 GALLON
SKU: 90187 / 90188 / 90189



INSTALLATION AND USER'S GUIDE

⚠ DANGER

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

90187-89

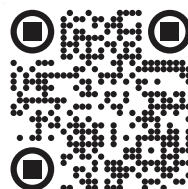




TABLE OF CONTENTS

TABLE OF CONTENTS	1
IMPORTANT SAFETY INSTRUCTIONS	2
<i>Legends and Symbols</i>	2-3
OVERVIEW (PRODUCT INFORMATION)	4
PACKAGING CONTENTS	4
PRODUCT INTRODUCTION	5
DIMENSIONS	6
SPECIFICATION	6
INSTALLATION	7
INSTALLATION INSTRUCTIONS	7-8
OPERATION	9
CONTROL PANEL / FUNCTIONS OF INDICATOR / FUNCTIONS OF OPERATION	10-21
TROUBLESHOOTING	22
TROUBLESHOOTING	22
REPLACEMENT PARTS	23
PARTS DIAGRAM	23
PARTS LIST	23
DISCLAIMER	24
<i>Disclaimer</i>	24
<i>Customer Service and Technical Support</i>	24

CUSTOMER SERVICE

If you have any questions about ordering our pool pumps and replacement parts or pool products, please feel free to contact us using the following contact information:

Customer Service and Technical Support

Phone: (909) 628-0880

Email: customer@xtremepowerusa.com

Hours of Operation: Monday – Friday, 9AM – 4PM (CST)

IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

This guide provides instructions for installing and using the Above-Ground Pool Salt Chlorinator. For inquiries about the equipment, please contact XtremepowerUS.

This guide contains important information about safely installing and operating this product. After installation, make sure to share this information with the owner/operator or leave it with them for their reference.

Legends and Symbols

When encountering the safety-alert symbol on the equipment or within this manual, pay attention to the following signal words and remain vigilant about the potential for personal injury.

⚠ DANGER **DANGER:** Ignoring these hazards can result in death, severe personal injury, or significant property damage.

⚠ WARNING **WARNING:** Indicates potential hazards that can result in severe personal injury, death, or significant property damage. Ignoring these warnings presents a real danger.

⚠ CAUTION **CAUTION:** Indicates potential hazards that can result in minor or moderate personal injury, property damage, or actions that are unpredictable and unsafe. Ignoring these cautions presents a potential hazard.

★ NOTE **NOTICE:** This label indicates important special instructions that are not directly related to hazards.

USE OF NON-XTREMEPOWERUS REPLACEMENT PARTS VOIDS WARRANTY

ATTENTION INSTALLER: This manual contains vital information regarding the installation, operation, and safe use of this product. It is essential to provide this manual to the end user of the product. Failure to read and follow all instructions could lead to severe injuries.

⚠ DANGER Failure to comply with all instructions and warnings may lead to severe bodily injury or even death. For optimal safety and functionality, it is advisable to have the product installed and serviced by a certified service professional. Prior to using this product, installers, operators, and owners must carefully review these warnings and all instructions provided in the owner's manual. It is essential to leave these warnings and the owner's manual with the owner for their reference and safety.

⚠ WARNING For safety reasons, children should not be allowed to use this product. Packing materials and plastic bags are not toys. Keep them away from children to prevent the risk of suffocation.

IMPORTANT SAFETY INSTRUCTIONS

DANGER

- Risk of Electric Shock: Do not bury the electrical cord or place it where it can be damaged. Always use a grounded type receptacle equipped with a ground-fault circuit interrupter (GFCI). Do not use the unit with a damaged cell housing or if improperly assembled. Ensure the GFCI functions correctly by testing it; if it fails or if it trips without the test button being pressed, discontinue use and seek professional repair. Failure to comply may result in severe injury or death.

WARNING

- Outdoor Use Only: This product is designed exclusively for outdoor use.
- Supervision Required: Never allow children to use this product unsupervised. Children and those with disabilities must be closely monitored to prevent injury.
- Assembly and Disassembly: These tasks should only be performed by adults to prevent accidents.
- Electric Shock Prevention: Always disconnect the product from the electrical outlet before cleaning, servicing, or making adjustments. Do not replace the supply cord as this could lead to electric shock; if damaged, replace the appliance. Avoid using extension cords or adapters and ensure a properly located outlet is used.

CAUTION

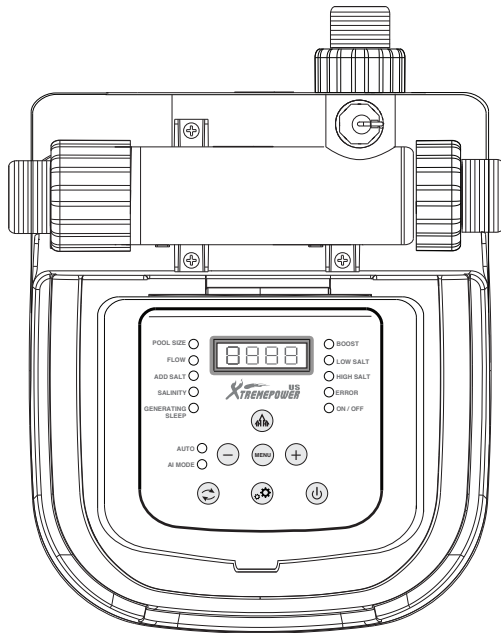
- Storable Pools Only: Use this product with storable pools, not permanently-installed pools. The pool must be installed no closer than 6 feet (1.8 m) from any electrical outlet, with portable appliances kept at least 5 feet (1.5 m) away to reduce the risk of electric shock.
- Proper Installation and Use: Incorrect installation or use could lead to reduced product efficiency and safety hazards.

NOTE

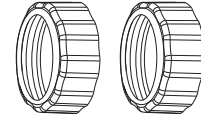
- These guidelines address common risks and do not cover all potential dangers. Always exercise caution and use good judgment when engaging in water activities. For use with portable above-ground pools only.

PRODUCT OVERVIEW

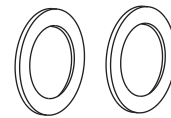
OVERVIEW (PRODUCT INFORMATION) PACKAGING CONTENTS



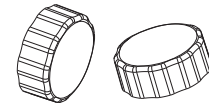
SALTWATER SYSTEM
1 PC(S)



PARTS#: 8
WATER SEALING
GASKET
2 PC(S)



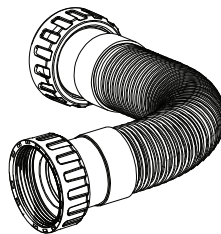
PARTS#: 9
T1 SEALING
NUT
3 PC(S)



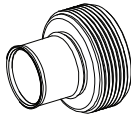
PARTS#: 10
HOSE NUT
2 PC(S)



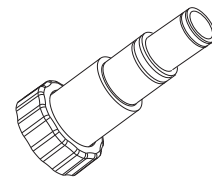
PARTS#: 3
HOOP
1 PC(S)



PARTS#: 7
SHORT HOSE
CONNECTOR
1 PC(S)



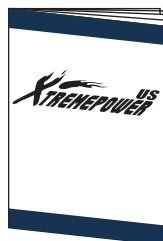
PARTS#: 4
38 TO 32 INTERFACE
1 PC(S)



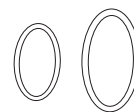
PARTS#: 11
32/38 HOSE
FITTING
2 PC(S)



PARTS#: 5
GASKET
1 PC(S)

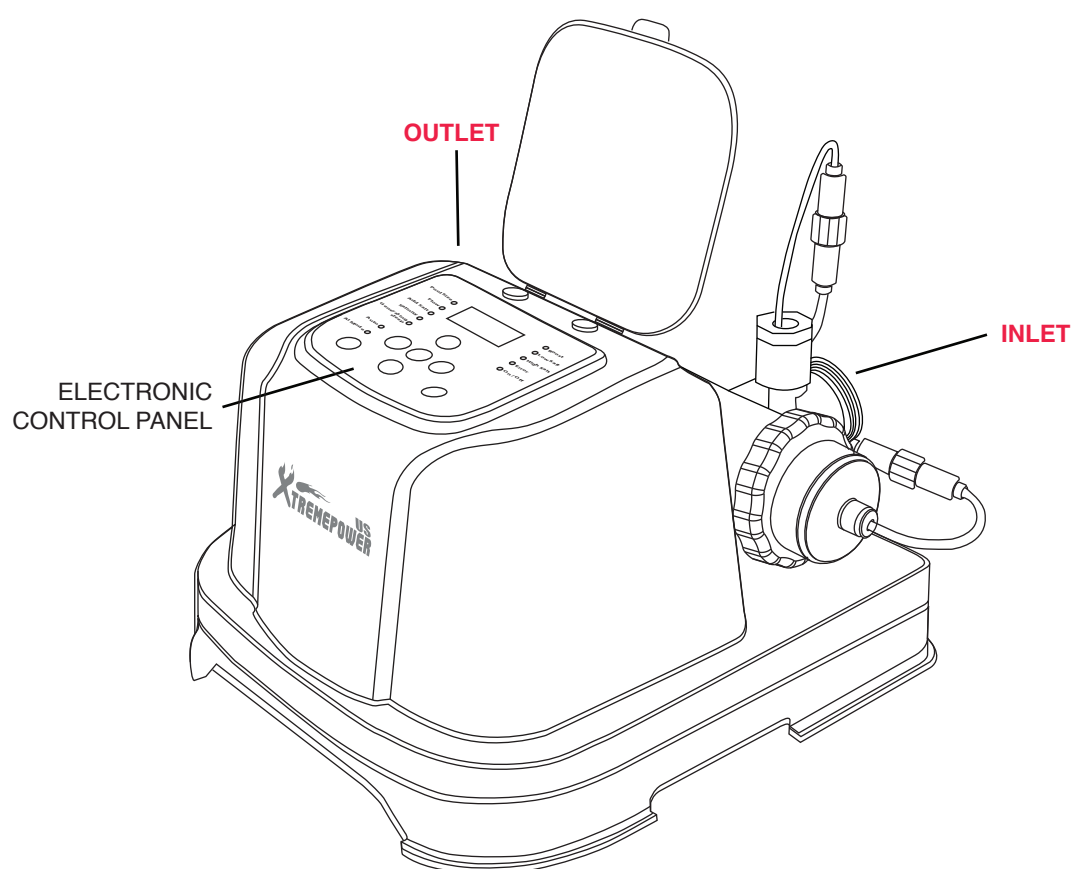


INSTRUCTION
MANUAL
1 PC(S)



PARTS#: 12 & 13
O-RING
2 PC(S)

PRODUCT INFORMATION



SALTWATER SYSTEM

INTRODUCTION

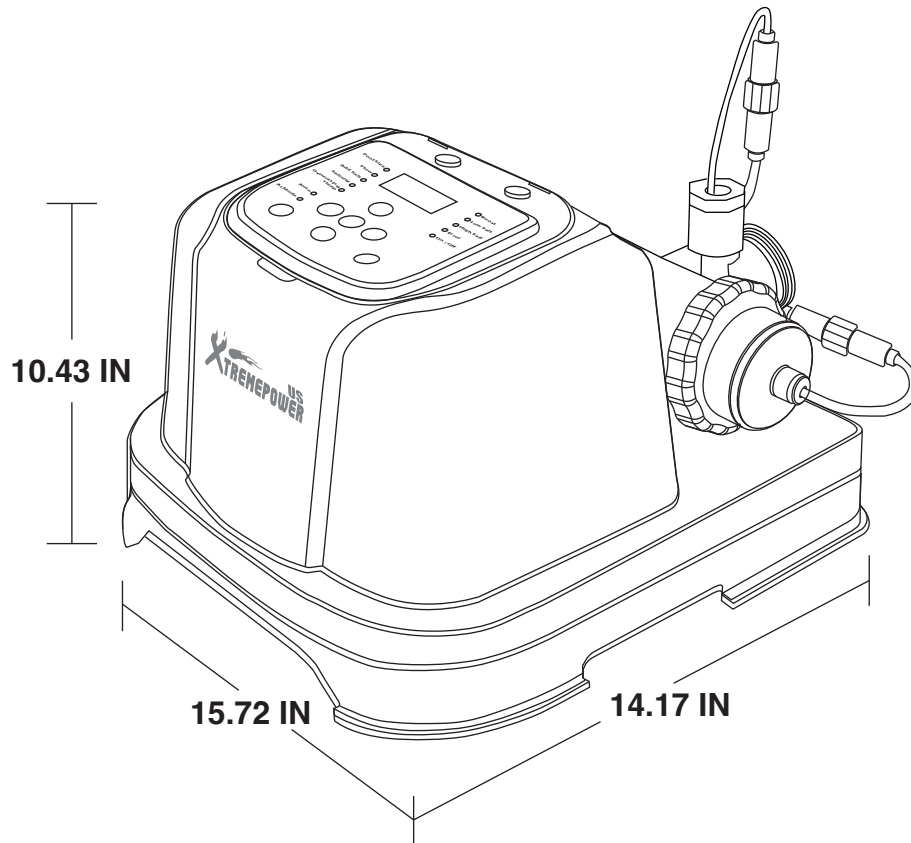
The XtremePower US About Ground Pool Salt Chlorinators are advanced water treatment systems that utilize dissolved salt to generate chlorine for swimming pool sanitation. Through the process of electrolysis, the system converts salt into chlorine gas and its active forms—hypochlorous acid and sodium hypochlorite—which are widely used and highly effective disinfectants for pool water.

Designed for residential swimming pools, these systems provide a reliable and efficient method of maintaining clean, clear, and hygienic water while reducing the need for manual chemical handling.

The About Ground Pool Salt Chlorinators feature an advanced automatic adjustment system, which intelligently regulates chlorine production based on pool size and environmental conditions. This ensures optimal water quality while improving energy efficiency and reducing maintenance effort.

PRODUCT OVERVIEW

DIMENSIONS



SPECIFICATION

SKU	90187 / 90188 / 90189
POOL TYPE	ABOVE-GROUND POOLS
POOL CAPACITY	UP TO 5,000 / 10,000 / 20,000 GALLONS
PRODUCT DIMENSION	15.72 x 14.17 x 10.43 INCH(s)
PRODUCT WEIGHT	10 LB(s)
VOLTAGE	120V
FREQUENCY	60 Hz
MAXIMUM POWER	115 W
IDEAL SALT LEVEL	3000 - 4000 PPM
CELL OUTPUT / HOUR	5 / 10 / 20 GRAMS PER HOUR
FILTER PUMP MINIMUM FLOW RATE	3300 GPH (GALLON PER HOUR)

INSTALLATION

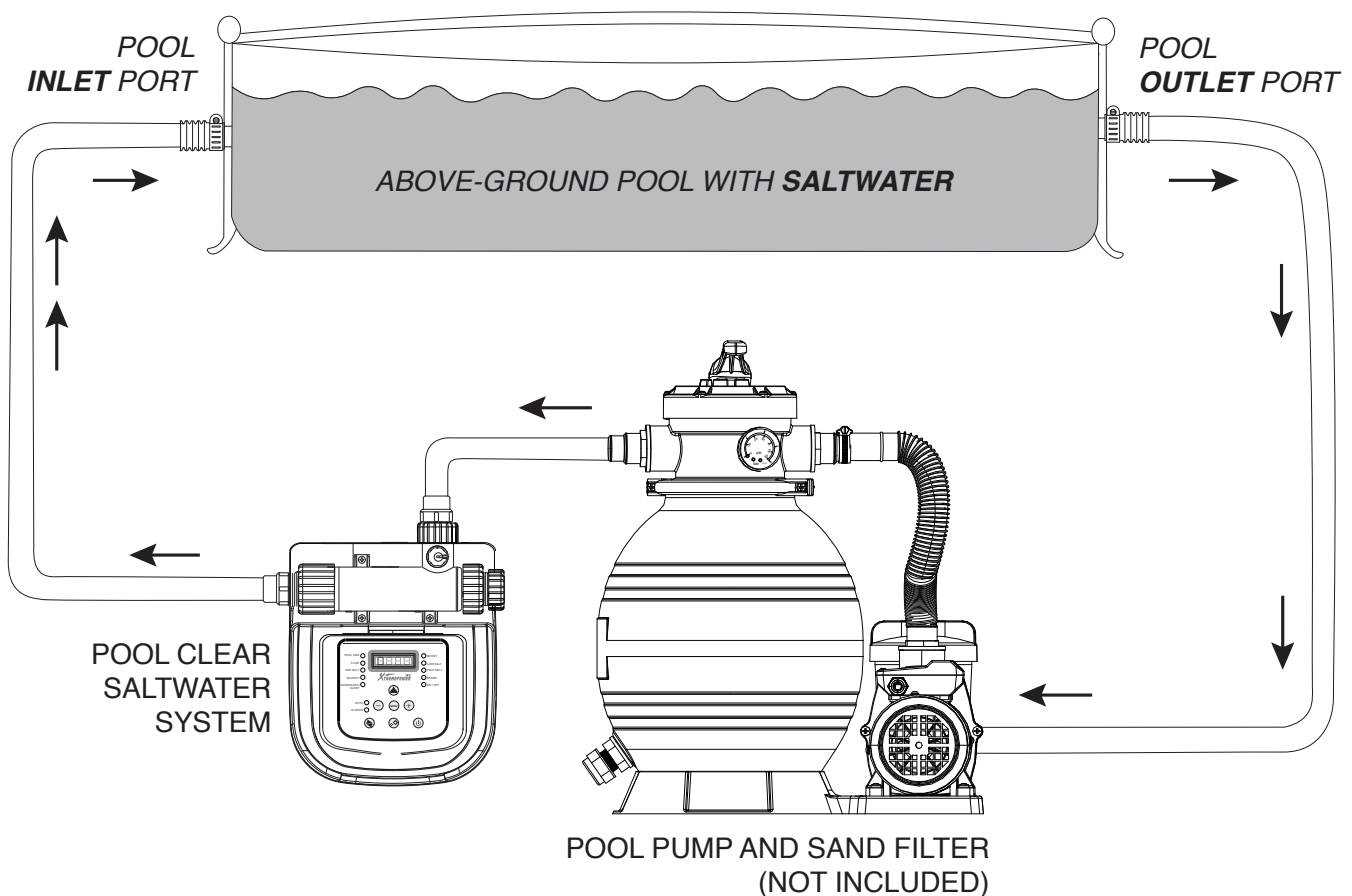
★ NOTE

- Install the Saltwater System as the final component in the water return line to the pool to protect the titanium plates.
- Ensure a separate filter pump with a flow rate between 700 to 3300 GPH (2650 to 11,355 LPH) for effective operation.

INSTALLATION INSTRUCTIONS

- **Pool Preparation:** Assemble a new pool and filter pump, or shut off the existing setup.
- **Positioning:** Position the Saltwater System downstream of the pump and filter (see Figure A).
- **Connections:** Connect the system inlet to the pump outlet using appropriate hoses and adapters, depending on the pump and pool connections (see Figure B).
- **Secure Connections:** Tighten all connections securely to prevent leaks.
- **Testing:** Test the system to ensure proper function before regular use.

Figure A Above-Ground Swimming Pool Equipment Layout



INSTALLATION

Figure B Water Intake Hose Connection

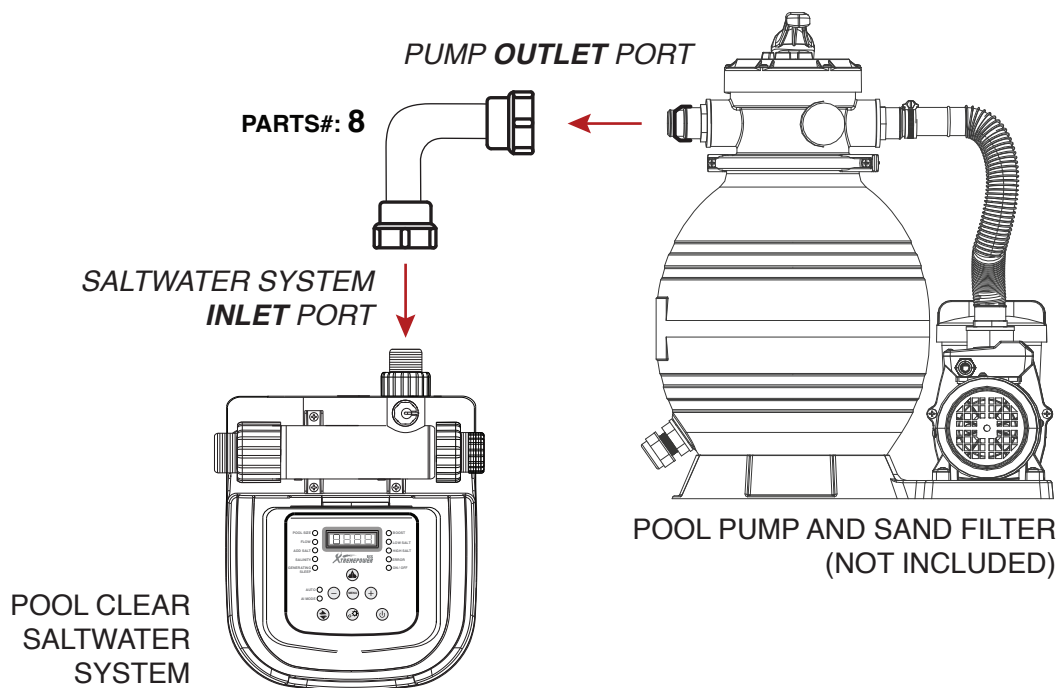
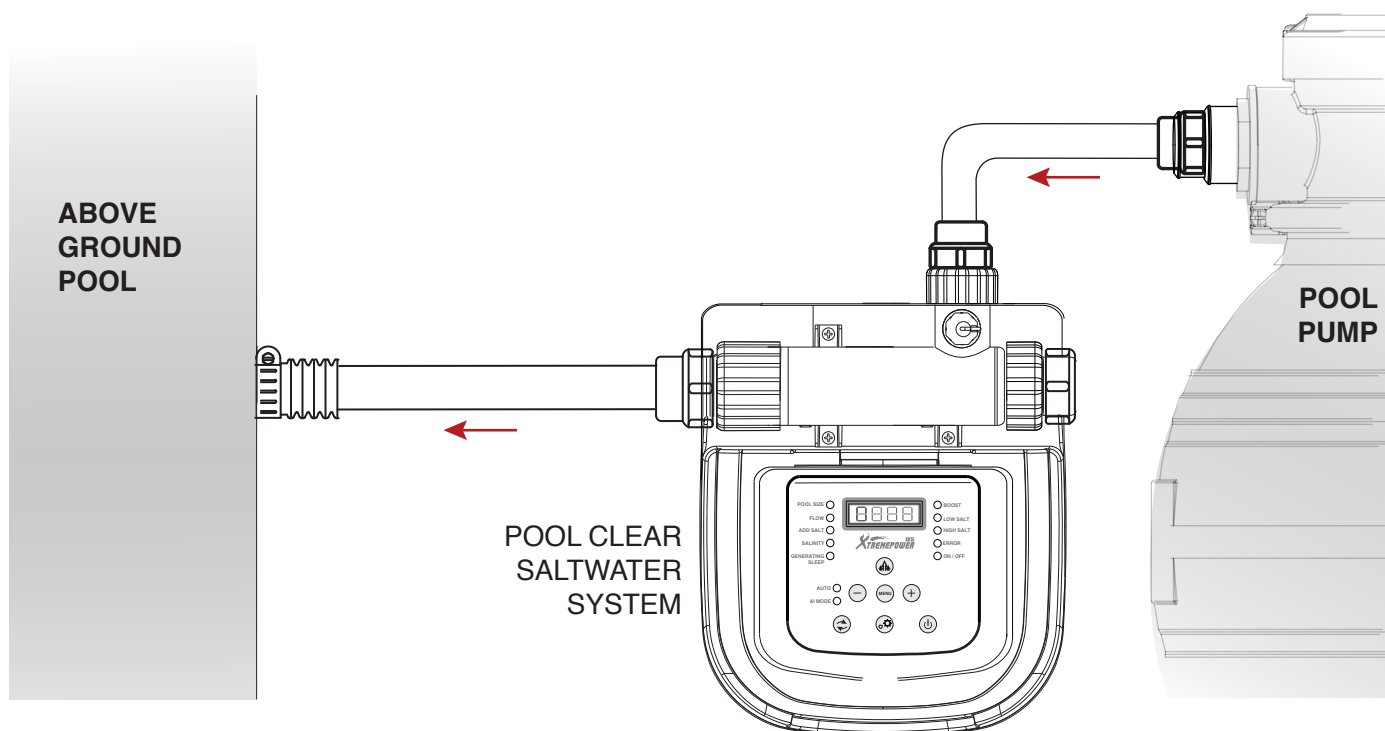
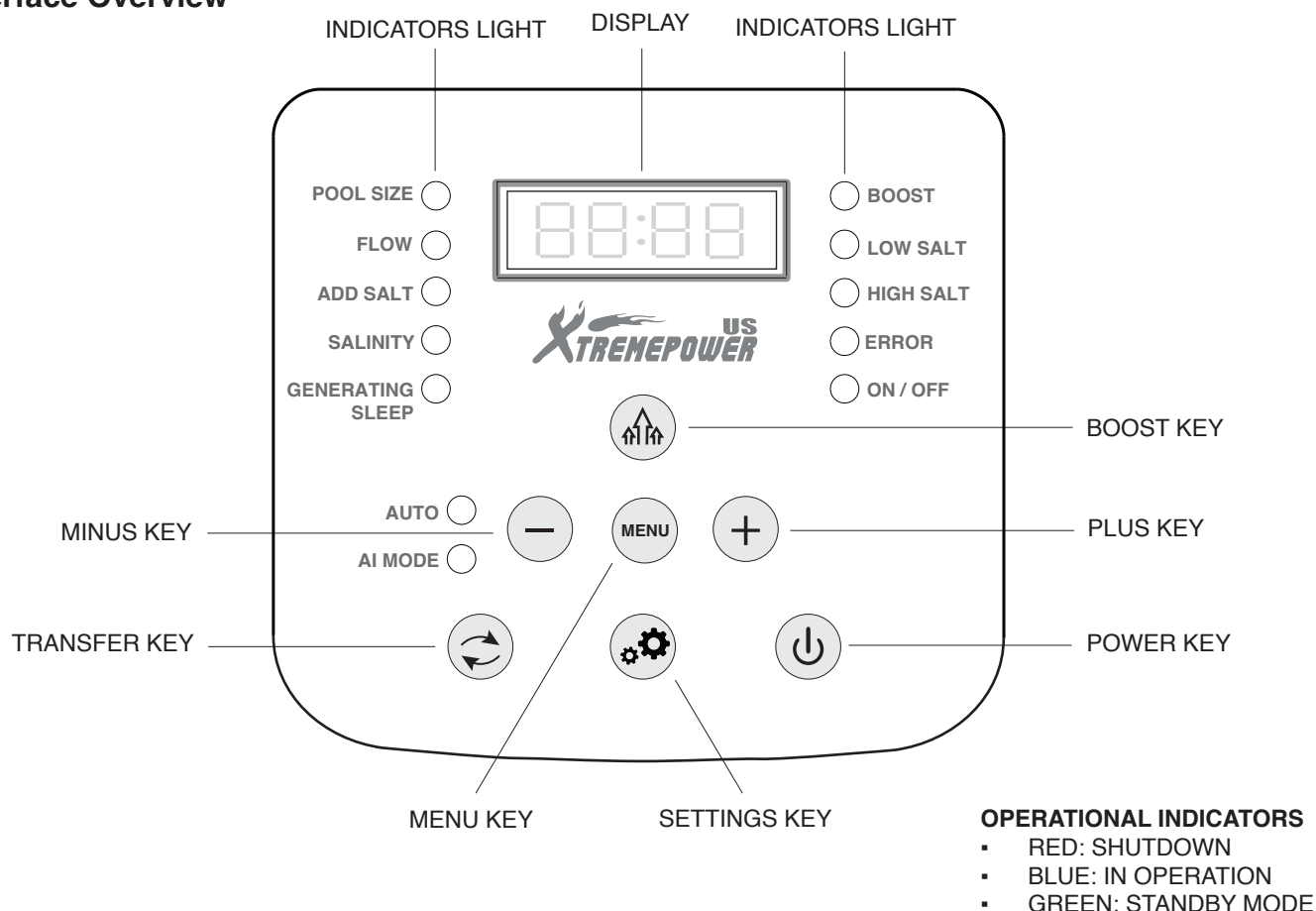


Figure C Water Hose Connection Completed



OPERATION CONTROL PANEL

Interface Overview



FUNTIONS OF THE INDICATORS

Pool Size: Pool size indicator. When the blue light is on, the digital display indicates the current swimming pool size.

Flow: Flow switch indicator. The red light remains on to indicate that no water is flowing through the system. The display panel shows "-FL-" and flashes to indicate that water flow is present but not yet stable.

Add Salt: Add salt indicator. When the yellow light is on, the digital display indicates the amount of salt that should be added.

Salinity: Salinity indicator. When the blue light is on, the digital display indicates the current salinity level.

Generating / Sleep: Operation indicator. The red light indicates that chlorine production has stopped, whereas the green light indicates that chlorine is being produced.

FUNTIONS OF THE INDICATORS

Auto: Auto mode indicator. The green light is on when the system is set to auto mode.

AI Mode: AI mode indicator. The green light is on when the system is set to AI mode.

Boost: Boost mode indicator. The blue light is on when the system is set to boost mode.

Low Salt: Low salt indicator. The red light remains on, indicating that the salinity is below the minimum threshold. In this condition, the electrode stops producing chlorine and salt must be added. A flashing red light indicates low salinity and that salt should be added.

High Salt: High salt indicator. The red light remains on, indicating that the salinity exceeds the maximum threshold. In this condition, the electrode stops producing chlorine and water must be added. A flashing red light indicates excessively high salinity and that water should be added.

Error: Error indicator. The red light indicates that an error has occurred, and the electrode has stopped producing chlorine.

On/Off: Power indicator. The green light indicates that the salt chlorinator is on.

FUNTION OF THE KEY



Power Key: Press this key to turn the power on or off.



Setting Key: Press this key to set the pool size or to activate the child lock function.



Transfer Key: Press this key to switch between auto mode and manual mode.



Plus Key (+): Press this key to increase values or to change the temperature unit.



Minus Key (-): Press this key to decrease values or to change the temperature unit.



Menu Key: Press this key to switch the display interface.

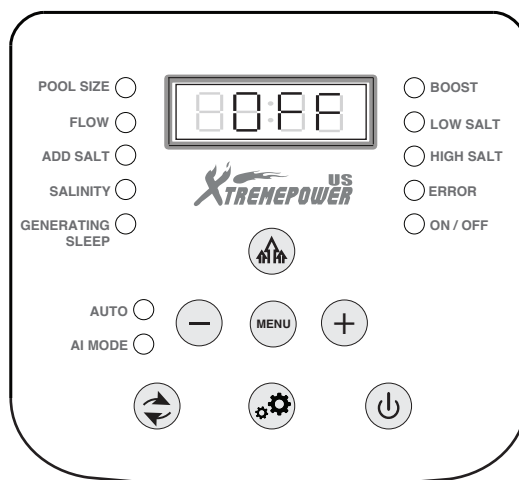


Boost Key: Press this key to activate boost mode.

FUNTIONS OPERATION

1. SYSTEM START/STOP

Press the  Power key to turn the system on or off. The ON/OFF indicator illuminates or turns off accordingly, indicating the system status. When the device is turned off, the display panel shows “OFF.”



2. POOL SIZE SETTING

a) Initial Setting

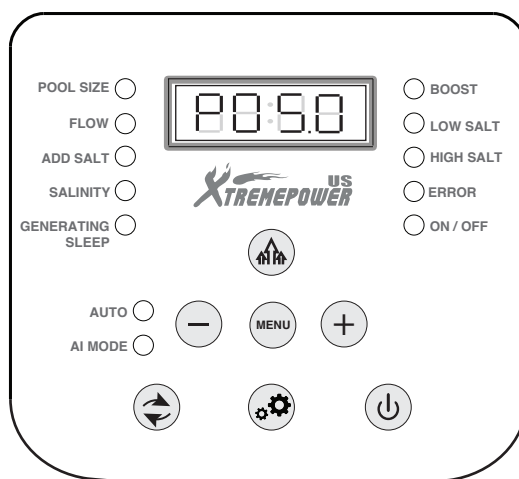
When the device is powered on for the first time, it performs a self-check. After completion, the display panel shows “PXX.X” and flashes, indicating that the pool size can be set.

Use the “+” and “-” keys to adjust the pool size. The adjustment increment is 100 gallons, and the unit is gallons. Press the  Setting key to save the selection.

If no setting is made within 30 seconds, the system automatically applies a default pool size and enters the water flow detection interface.

Default Pool Size Values:

- 90187: 5,000 GALLONS
- 90188: 10,000 GALLONS
- 90189: 20,000 GALLONS



FUNTIONS OPERATION

b) Normal Setting

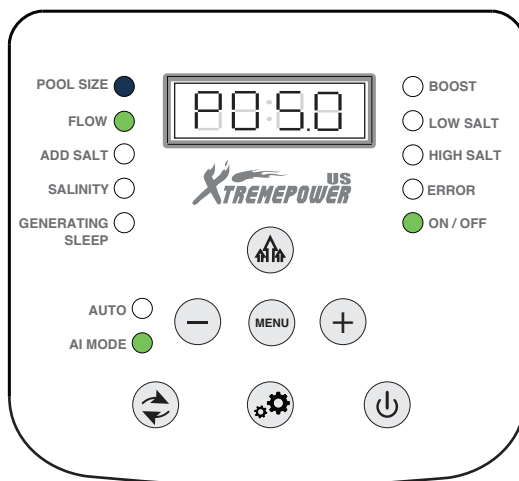
Press the  Setting key to access the pool size setting interface.

The display panel shows “PXX.X.” Press the  Setting key again; the value will flash, indicating that it can be adjusted.

Use the  and  keys to adjust the value. Press the Setting key to save and exit.

In AI mode, the system automatically adjusts chlorine production time based on parameters such as temperature and pool size to ensure adequate chlorine levels and extend electrode life.

In Auto mode, the operating time remains unchanged after the pool size is set.



 **NOTE** The adjustable range depends on the salt cell model. Values outside the allowable range cannot be selected.

Pool Size Ranges:

- 90187: 5,000 GALLONS
- 90188: 10,000 GALLONS
- 90189: 20,000 GALLONS

When this interface is active, the Pool Size indicator remains solid blue.

3. WATER FLOW DETECTION

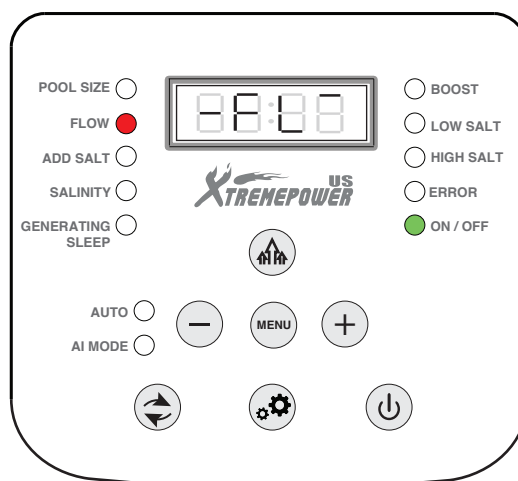
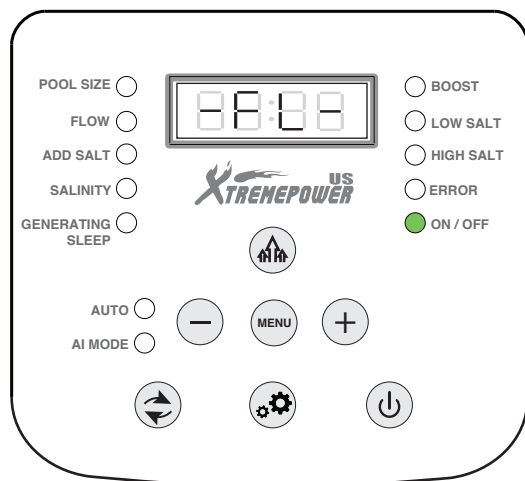
a) Initial Detection

When water flow is detected, the display panel shows “-FL-” and flashes. After one minute of continuous detection, the system begins operation, and the flow indicator turns solid green. If water flow is interrupted, detection restarts, and the indicator turns red. During detection, all keys except the Power key are locked.

FUNTIONS OPERATION

b) Detection During Operation

If the system is operating and no water flow is detected, the display panel continues to show “-FL-,” and the flow indicator remains red.



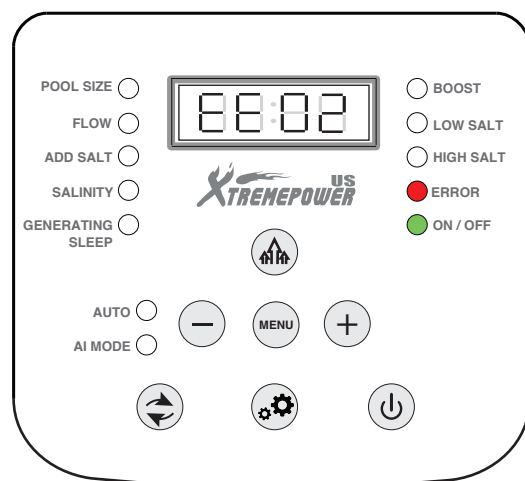
4. WATER TEMPERATURE DETECTION

After water flow detection, the system initiates temperature monitoring. The operating temperature range is 50°F to 140°F.

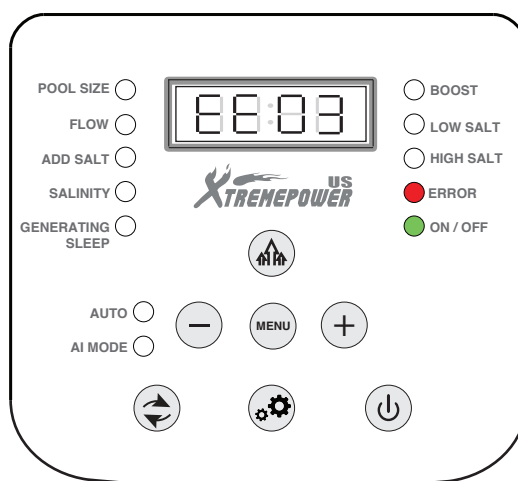
If the temperature falls outside this range, the system activates a protection program and stops operation.

- “EE02”: Temperature above 140°F (error indicator turns red)
- “EE03”: Temperature below 50°F (error indicator turns red)

The system resumes normal operation once the temperature returns to the acceptable range. In a high-temperature condition, operation resumes when the temperature drops below 131°F. In a low-temperature condition, operation resumes when the temperature rises above 55.4°F.



HIGH TEMP



LOW TEMP

FUNTIONS OPERATION

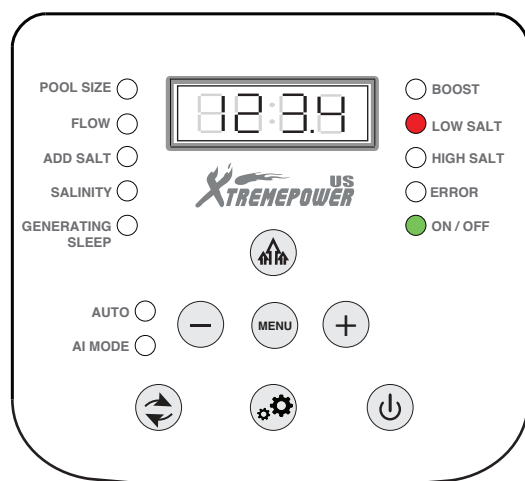
5. SALT SALINITH DETECTION

a) Salinity Range and Alerts

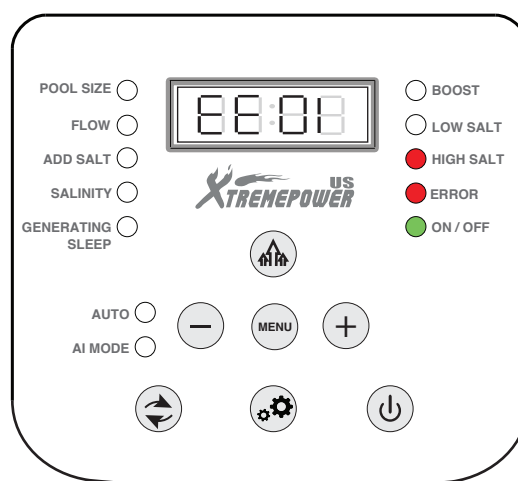
The operating salinity range is 2300–5500 ppm, with an ideal range of 3400–3600 ppm.

- **2300–2800 ppm:** Warning state; Low Salt indicator flashes red
- **Below 2300 ppm:** Low Salt and Add Salt indicators turn on; the display shows the required salt amount (unit: lb). The system stops operation.
- **4500–5500 ppm:** Warning state; High Salt indicator flashes red
- **Above 5500 ppm:** High Salt and Error indicators turn on; the display shows error code “EE01.” The system stops operation

The system resumes operation once salinity returns to the normal range.



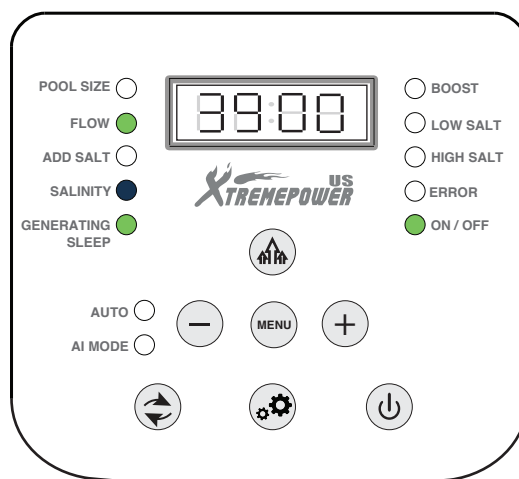
LOW SALT SALINITY



HIGH SALT SALINITY

b) Viewing Salinity

Press the **MENU** shortcut key to display the current salinity (ppm). Press **MENU** again to navigate to the next screen, or allow the display to exit automatically after 6 seconds.



FUNTIONS OPERATION

6. Boost Mode

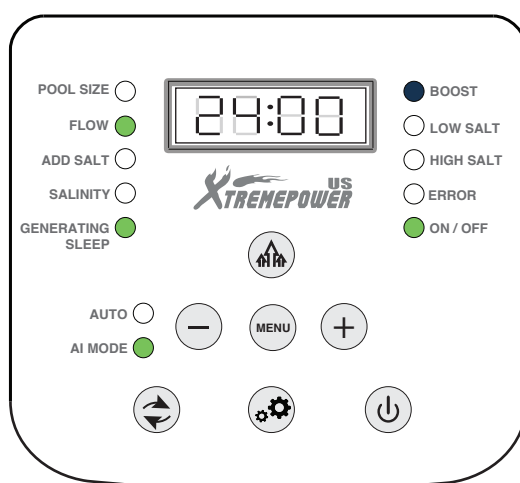
Press the  Boost key to activate Boost mode. Press  or  to exit Boost mode.

When Boost mode is active:

- The Boost indicator turns blue
- Chlorine production runs continuously for 24 hours

After 24 hours, the system enters a 30-minute rest period (Generating/Sleep indicator turns red), then returns to the previously selected mode (Auto or AI).

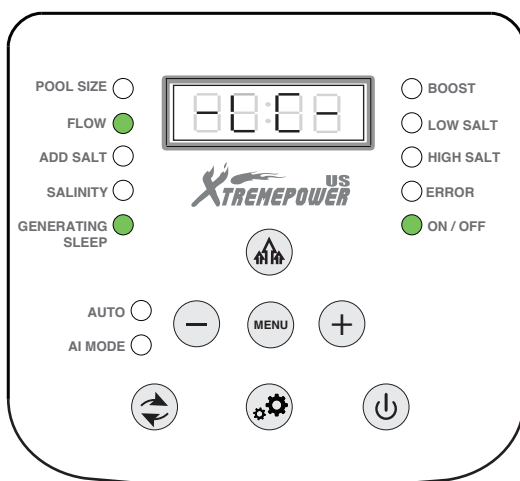
NOTE Boost mode is recommended during initial use, after extended inactivity, or when chlorine production is insufficient.



BOOST MODE

7. Child Lock Function

Press and hold the  Boost key for more than 3 seconds to enable or disable the child lock.

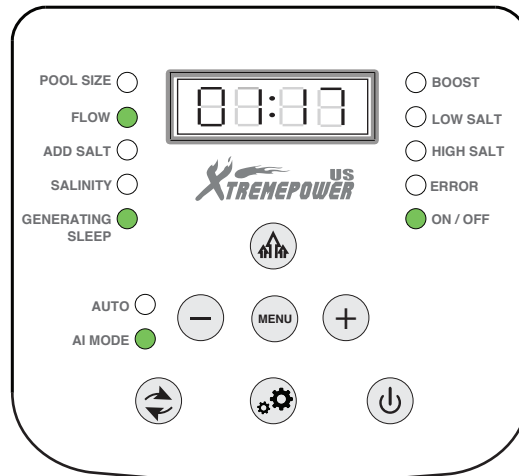


FUNTIONS OPERATION

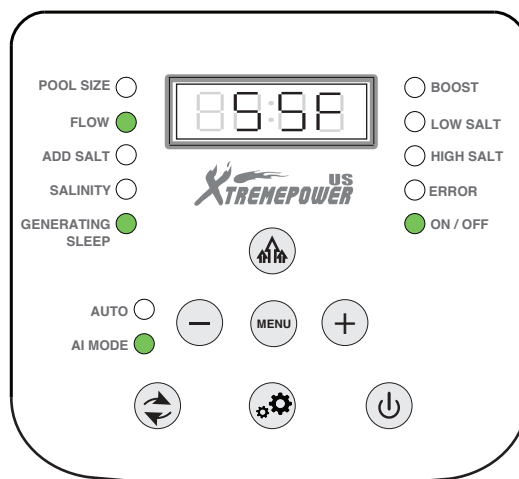
8. MENU INTERFACE

From the default display, press the  Menu key to cycle through the following screens:

- Chlorine production/rest countdown

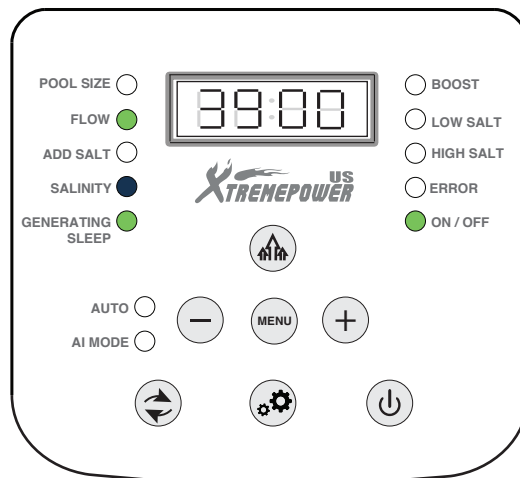


- Water temperature (°F) — adjustable using  or  key.

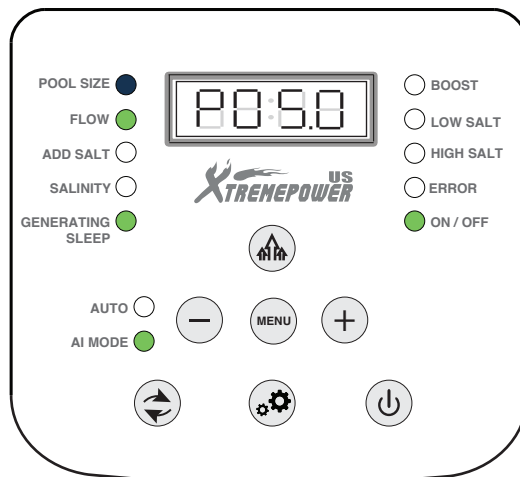


FUNTIONS OPERATION

- Instant salinity

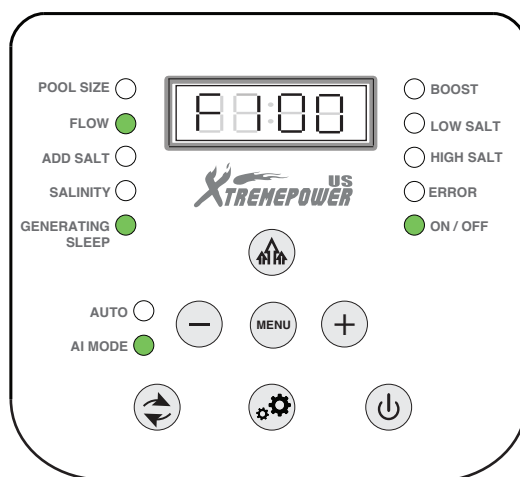


- Pool size



- Salt calibration coefficient - default: F100; adjustable from F75 to F120. Press the $\oplus$ or $\ominus$ key to adjust the valve, the salt salinity will be adjusted with the value F75 to F120.

For example: F120 represents salt concentration = 120%* basic salt salinity.



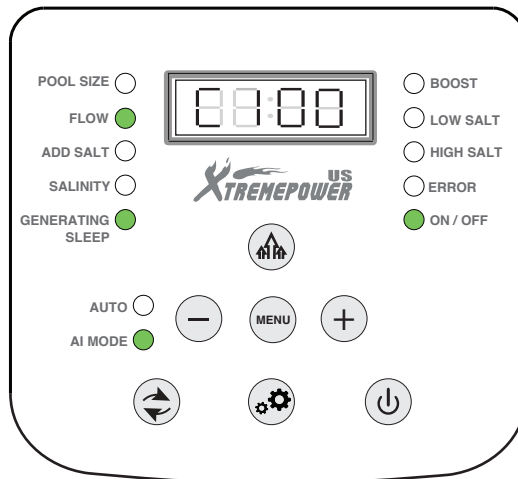
FUNTIONS OPERATION

- Chlorine output adjustment - default: C100

Press the  or  key to adjust the valve, the salt salinity will be adjusted with the value C80 to C120.

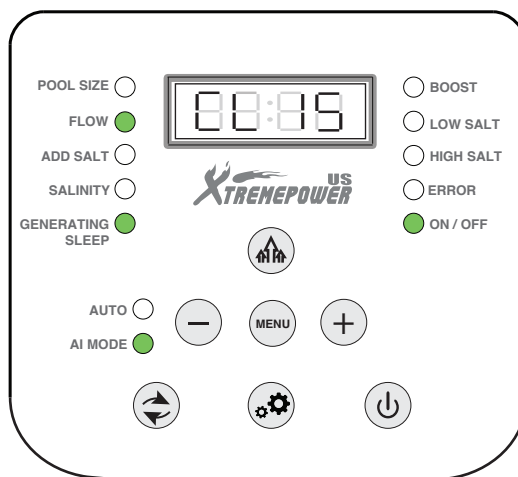
For example: C120 represents salt concentration = 120%* basic chlorine production time.

 **NOTE** This function is only available in AI mode.



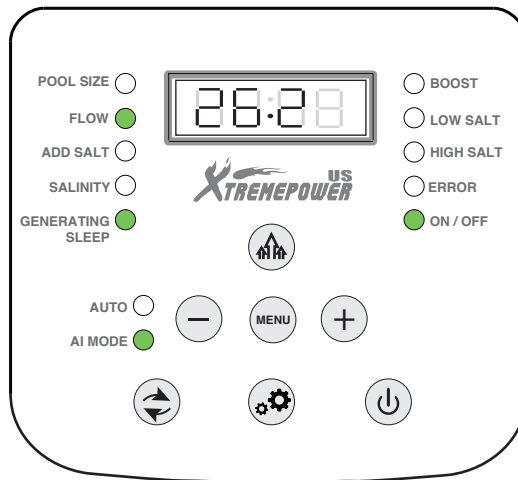
- Salt cell model (automatically detected: CL05, CL10, CL15, CL20)

The machine will automatically identify the electrode model. There is no need to manually set the electrode, as it can be used immediately.

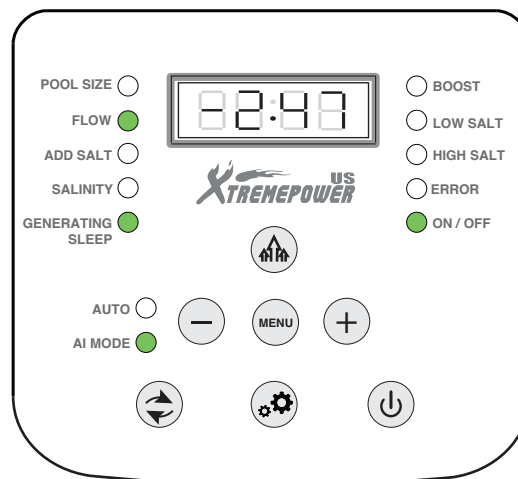


FUNTIONS OPERATION

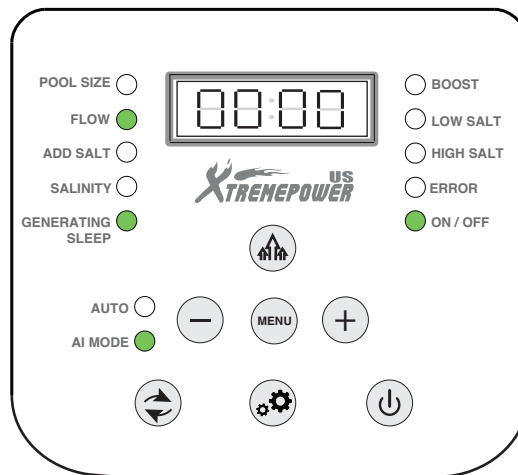
- Salt cell voltage (V)



- Current of the Salt Cell (A)



- Total Chlorine Production Time



FUNTIONS OPERATION

9. AUTO AND AI MODE

AUTO MODE

In Auto mode, the chlorine production time is manually set and stored in memory.

For example: If set to 8 hours, the system operates for 8 hours and rests for 16 hours. This cycle repeats, even after a power interruption.

Adjustment Procedure:

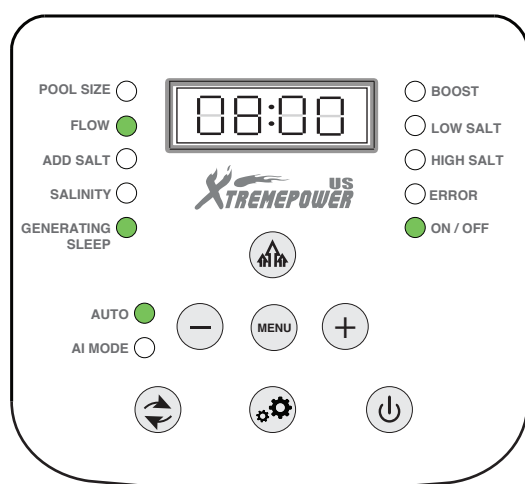
- Switch to Auto mode
- In the default interface, press the  Setting key (time display flashes)
- Adjust using  or  (range: 00:30–12:00)
- Press the  Setting key to confirm

The chlorine production time remains fixed unless manually changed.

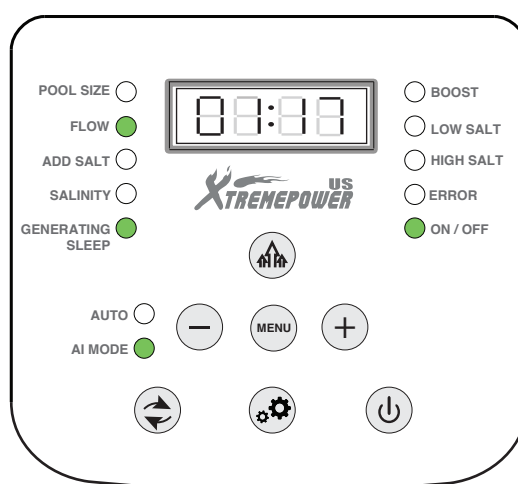
AI MODE

Switch to AI mode and set the correct pool size. The system automatically calculates and adjusts chlorine production time based on environmental conditions and salinity.

NOTE Production time may vary due to temperature and weather. Reduced production at low temperatures is normal.



AUTO MODE



AI MODE

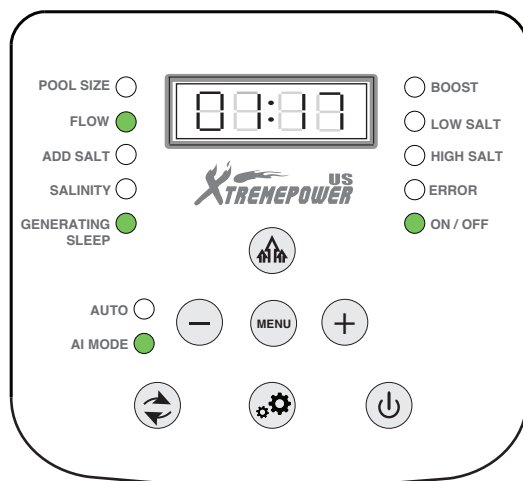
FUNTIONS OPERATION

10. OPERATING STATUS

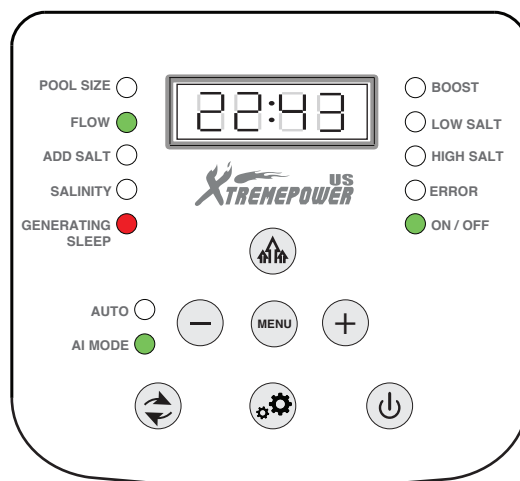
Green indicator: Chlorine is being generated; the display shows remaining working time

Red indicator: System is resting; the display shows remaining rest time

The countdown screen is the default interface and operates on a 24-hour cycle.



WORKING STATUS

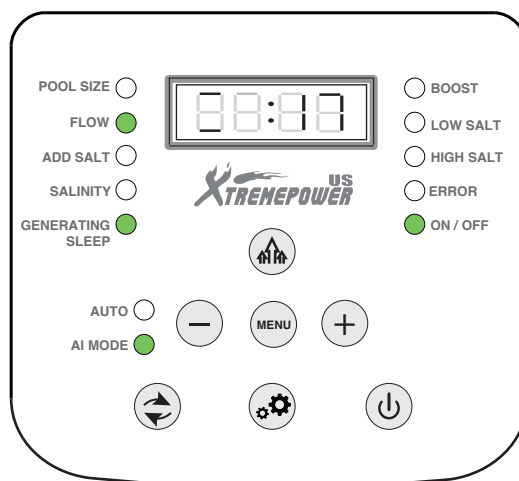


RESTING STATUS

11. SALT CELL SELF-CLEANING

The salt cell automatically reverses polarity every 8 hours for self-cleaning.

To manually reverse polarity, press and hold the  key. Successful reversal can be verified by observing a change in current direction.



TROUBLESHOOTING

SITUATION	POSSIBLE CAUSE	SUGGESTION
No LED Display On the Panel	No power supply	Turn on the power switch
	LED panel broken	Contact the service center
Chlorinate Output is Not Enough	Working time is not enough	Increase the working time
	pH not normal	Keep pH 7.2 - 7.7
	Chlorine loss as intense sunlight exposure	Put the pool shaded place
Error Light On	Low water temperature High water temperature	See Water Temperature Detection
	High salt salinity	See Salt Salinity Detection
Display Panel Showing FL	The inlet / outlet of the hose is clogged	Clear the hose
Connections Leaking	The nut is not securely tight	Ensure the nut is tightened
	The connection fitting is missing	Ensure all the fittings are intact and in place

SALT CONCENTRATION AND POOL SETTINGS

Water Flow Protection: FLOW Red Light

- **Cause:** Pump stopped or valves closed
- **Solution:** Start the circulation pump, check for blockages, and open valves.
- **Cause:** Faulty flow switch or loose connections
- **Solution:** Replace the flow switch if the pump is on and the switch is closed.

High Salt Alert: HIGH Blue Light, GENERATING Bright Blue

- **Cause:** Excessive salt concentration
- **Solution:** Dilute by partially draining and refilling with fresh water.

Overcurrent Protection: HIGH Red Light, GENERATING Bright Green

- **Cause:** High salt concentration or generator blockage
- **Solution:** Clean the generator, check the salt level, and restart the system.

Low Salt Alert: LOW Blue Light

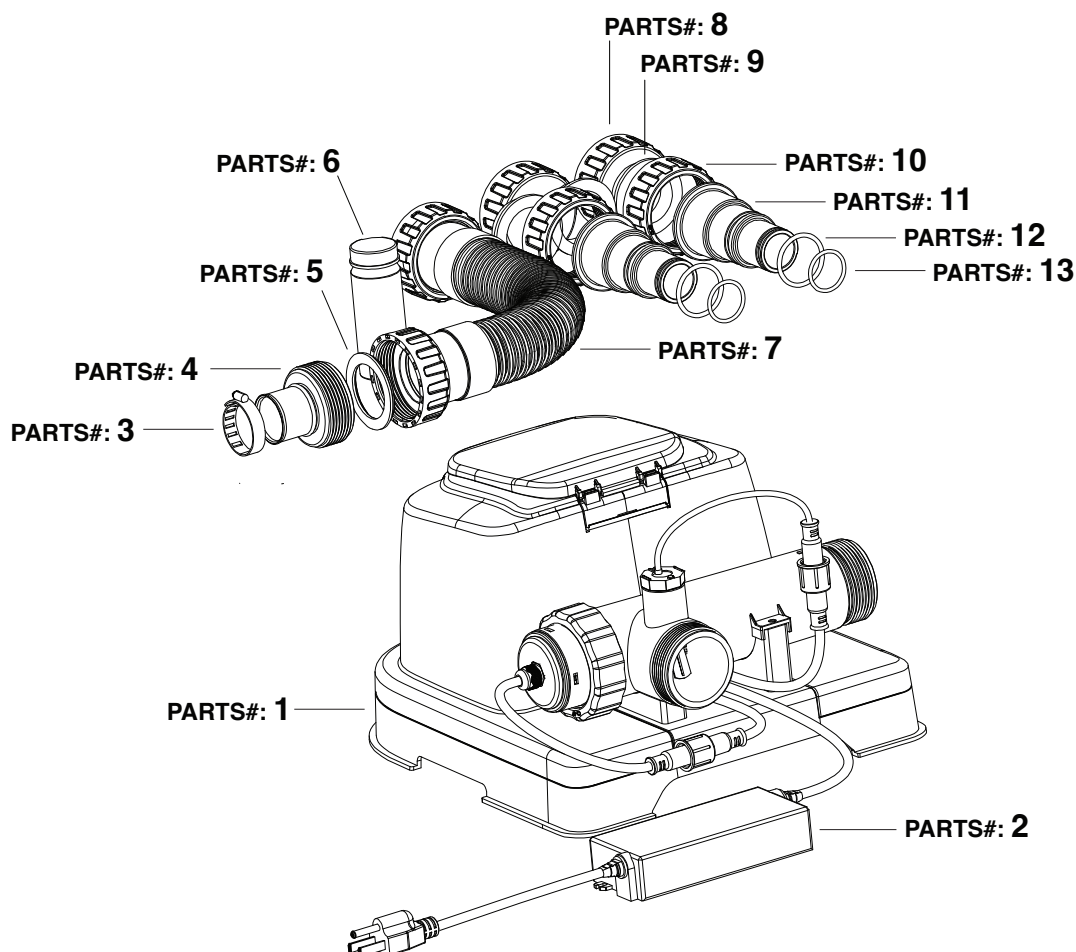
- **Cause:** Salt level below 700 PPM
- **Solution:** Add salt to the pool.

Low Current: LOW Red Light

- **Cause:** Extremely low salt level or circuit break
- **Solution:** Check the generator and salt level. Replace the generator if necessary, especially if it's beyond its expected lifespan.

REPLACEMENT PARTS

PARTS DIAGRAM



PARTS LIST

ITEM	DESCRIPTION	QTY
1	Control Box	1
2	Power Adapter	1
3	German-Style Hoop	1
4	38 to 32 Interface	1
5	Gasket	1
6	Reagents	1
7	Short Hose Connection Assembly	1
8	Water-Sealing Nut	2
9	T1-Sealing Gasket	3
10	Hose Nut	2
11	32/38 Hose Fitting	2
12	O-Ring	2
13	O-Ring	2

DISCLAIMER

PLEASE READ THE FOLLOWING CAREFULLY

The manufacturer and/or distributor have provided the parts list and assembly diagram in this manual for reference purposes only. They do not make any representation or warranty to the buyer that they are qualified to make repairs to the product or replace any parts of the product. In fact, the manufacturer and/or distributor expressly state that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer.

The buyer assumes all risk and liability arising from their repairs to the original product or replacement parts or arising from their installation of replacement parts. It is strongly advised that qualified professionals handle any repairs or replacements to ensure safety and proper functioning of the product. Improper installation and operation may result in injury, property damage, or voiding of warranty. The manufacturer and/or distributor shall not be held responsible for any accidents, damages, or malfunctions resulting from the buyer's installation and operation of the product. It is essential to follow all safety guidelines and recommendations provided in this manual and to seek professional assistance if unsure about the installation or operation procedures.

CUSTOMER SERVICE

If you have any questions about ordering our pool pumps and replacement parts or pool products, please feel free to contact us using the following contact information:

Customer Service and Technical Support

Phone: (909) 628-0880

Email: customer@xtremepowerusa.com

Hours of Operation: Monday – Friday, 9AM – 4PM (CST)
