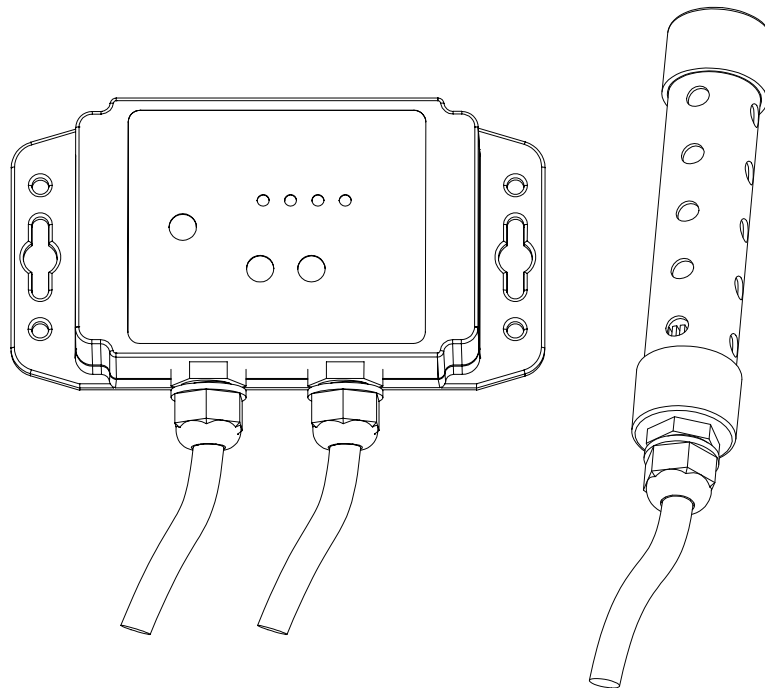




SPA SALT CHLORINATOR WITH CONTROL BOX

SKU: 90155



ASSEMBLY AND USER'S GUIDE

IMPORTANT:

Review the instruction manual thoroughly before operating the machine.
Keep it for future reference.

90155

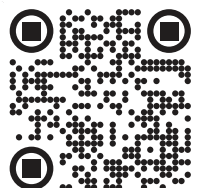


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IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS


This guide provides instructions for installing and using the SPA Salt Chlorinator. If you have any questions 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 you come across the safety-alert symbol on your equipment or in this manual, pay attention to the following signal words and remain vigilant about the potential for personal injury.

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


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


 **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:** 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

- Do not use if XtremepowerUS Spa Salt Chlorinator is damaged.
- Remove the XtremepowerUS Spa Salt Chlorinator electrode before entering the spa.
- Avoid touching the electrode during chlorine generation.
- Salt levels too high or too low will keep the system from working.

WARNING

- Only adults should operate this product to prevent injury.
- Connect to a GFCI-protected power source only.
- Do not alter the power cord; it will cause damage.
- Disconnect power supply carefully, without tugging on the cord, and avoid rough handling.
- Do not insert anything into the electrode; it can cause damage.
- Use only the provided power supply to prevent damage to XtremepowerUS Spa Salt Chlorinator.
- Water temperature must be a minimum of 95° for XtremepowerUS Spa Salt Chlorinator to work.

CAUTION

- Ensure compatibility with the spa by consulting the manufacturer.
- Use XtremepowerUS Spa Salt Chlorinator as instructed.
- Shield power supply and outlet from weather.
- Store XtremepowerUS Spa Salt Chlorinator indoors when the spa is not in use.
- Ventilate spa cover before use to release gases.
- Check and adjust water quality before each use.
- Regular manual water testing is required for safety.
- Verify secure connection when connecting cell wires.

NOTE

- Adhere to all guidelines provided.
- Keep this manual for reference.
- Install according to relevant codes and regulations.
- Check the cell function with a salt test strip or professional testing.
- Filters must be clean and in good condition for proper flow. Flow errors will keep the system from working.

OVERVIEW (PRODUCT INFORMATION)

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PRODUCT INTRODUCTION

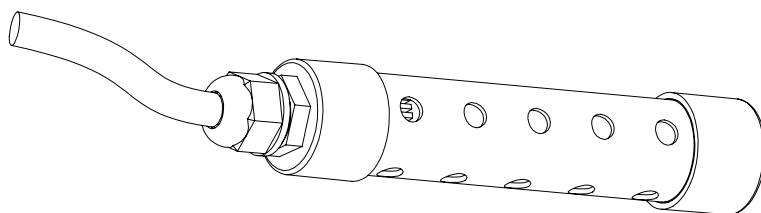
XtremepowerUS Spa Salt Chlorinator is a semi-automatic chlorine generator designed for portable spas. It efficiently creates chlorine by utilizing common table salt (NaCl) dissolved in the water, at a concentration typically undetectable by taste.

The system not only purifies water by producing chlorine through electrolysis but also softens it, offering additional benefits for smoother skin and hair. The chlorinator's detection technology initiates chlorine production when levels dip, maintaining safe water without the risk of over-chlorination.

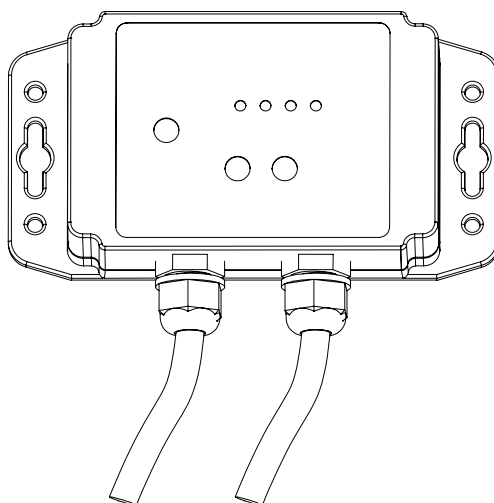
After cleansing the water, chlorine transforms back into salt, facilitating a self-renewing process with negligible salt depletion, mostly from water splash-out or when spa users depart.

PRODUCT OVERVIEW

Electrode



Control Box



INSTALLATION

INSTALLATION

PREPARE THE SPA

Drain, clean, refill with water, add salt, heat to above 95°F, and balance the water chemistry.

INSTALLATION INSTRUCTIONS

NOTE

Power Supply Guidelines

- Use the included power supply.
- Protect the power supply with a weather-resistant cover.
- Avoid placing equipment inside the spa compartment.

115V Electrical Outlet Installation

- Ensure a GFCI-protected outlet is available near the spa for safety.
- If not present, hire a licensed electrician to install a 115V GFCI outlet.

Connecting The Power Supply

- Unstrap and route the power supply cable to the outlet, ensuring correct pin alignment to avoid damage.
- Utilize the provided cable clips for secure attachment to a surface.

Cold Weather Considerations

- The power supply should not be used in temperatures below -4°F.
- In cold climates, store the power supply in a warm place or install it within the spa's equipment area for protection.

Control Box Installation

- Unscrew the back of the control box using a Phillips screwdriver.
- Remove the bottom cover to access the internal circuit board.
- Secure the waterproof connector of the Electrode by tightening it clockwise.
- Connect the Electrode's connector to the control box firmly.
- Reattach and secure the back cover of the control box with screws.
- Mount the control box to a suitable wall location using screws. (See below for "Control Box Location Requirements")

Control Box Location Requirement

- Install vertically with cables exiting from the bottom.
- Avoid direct sunlight and excessive moisture.
- Choose a flat spa skirt location where:
 - The power cable reaches the outlet and is protected.
 - The 8-foot electrode cable reaches the deepest part of the spa.

Mounting the Control Box

- Install two screws 5 3/8 inches apart and at least 1 1/4 inches below the spa's top edge.
- Hang the box on the screws and slide it down to secure.
- Securely fasten all screws.

INSTALLATION

Draping the Electrode

- Place the electrode in the spa's deepest part for maximum chlorine generation.
- Maintain a vertical orientation for efficient chlorine production.
- Avoid placing in the filter area to ensure optimal chlorine distribution.
- Use the provided cable clip to secure the electrode cable to the spa side if needed.

OPERATION

OPERATION

STARTUP

- Connect to power: Control box LED flashes 3 times, then enters standby mode.
- LED flashes at startup indicate electrode life: 1 lights (below 25% life), 2 lights (25-50% life), 3 lights (50-75% life), and 4 lights (over 75% life).

○○○●	○○●●	○●●●	●●●●
< 25%	25% ~ 50%	50% ~ 75%	> 75%

STANDBY MODE

- Only the GENERATING light is on.

CHLORINATION CYCLE

- Activate by pressing the POWER key.
- During chlorine production: GENERATING light flashes, salinity level light shows current level.
- After chlorine production: GENERATING and salinity level lights are on, indicating current salinity level.

CHLORINE PRODUCTION SCHEDULE

- Cycles every 3 hours.
- Production time varies by energy level (1-10): e.g., level 1 equals 18 min production, followed by 162 min wait.

SALINITY MONITORING

Salinity Indicator Light	Low	Normal	High
Running Current	<0.8A	0.8A < I ≤ 1.6A	1.6A < I ≤ 2.4A
Salinity Range (PPM)	<1500PPM	1500PPM ≤ SALT ≤ 3700PPM	>3700 PPM

- **Optimal Salt Level:** Maintains 3,200 PPM for ideal balance

POOL / SPA CAPACITY	0 PPM	1,000 PPM	2,000 PPM
1,000 GALLON	27 LBS	18 LBS	10 LBS
1,500 GALLON	40 LBS	27 LBS	15 LBS
2,000 GALLON	53 LBS	37 LBS	20 LBS

OPERATION

ENERGY LEVEL ADJUSTMENT

- Hold GENERATING key for 3-5 seconds until buzzer sounds.
- Count continuous Salt_Low light flashes every 2 seconds to determine current level.
- Exits adjustment mode after three cycles.
- Restart at new energy level after adjustment.

Level	Run Time Per Inner Cycle (Min)	Run Time Per Day(H)	Chloride Production At 24h(G/D)	Remark
1	18	2.4	12	
2	36	4.8	24	
3	54	7.2	36	
4	72	9.6	48	
5	90	12	60	
6	108	14.4	72	
7	126	16.8	84	
8	144	19.2	96	
9	162	21.6	108	
10	180	24	120	Super Chlorine

ELECTRODE LIFE INITIALIZATION

- Long press all keys to initialize new electrode.

ELECTRODE MAINTENANCE

- Automatic positive and negative electrode adjustment every 3 hours.

PROTECTION MODES

- Ultra-low Salinity: Below 0.3A, GENERATING and Salt_Low lights flash. Restarts after 3 minutes.
- High Current: Above 3A, GENERATING and Salt_High lights flash. Restarts after 3 minutes. Manual restart required if current exceeds 3A during operation.

TROUBLE SHOOTING

Excessive Salt Indication

- If both the Green (Salt High) and Red (Salt Low) lights are on, it indicates excess salt. The Chlorinator will shut down to prevent damage. Remove the electrode, press "Boost," and observe the lights. If they remain on, the issue is not with the water itself.
- To correct excessive salt, mix a bucket with two-thirds spa water and one-third fresh water. Place the electrode in the bucket, wait 5 minutes, then turn it on. Aim for the Blue light, which signifies an optimal salt level. Adjust the spa water based on these bucket test results.

Electrode Buildup

- Calcium buildup can interfere with chlorine generation. Disconnect power, soak the electrode in a mild acid like vinegar for 10-30 minutes, then rinse thoroughly.

Low Salt Level During Chlorine Generation

- A Red light during operation indicates low salt levels. Add salt to the water, but first confirm the necessity with a salt test strip.

Electrode Lifespan

- Depleted electrode lifespan can hinder performance. If chlorine generation is consistently low, check the Electrode Lifespan Indicator. If near the end of its life, consider replacing the electrode.

Chlorine Levels Management

- For low chlorine levels, increase the power level and monitor the chlorine production over the next few days.
- For high chlorine levels, lower the power level. Confirm the salt level with a test strip, and dilute with fresh water if levels are above the recommended range.

Unit Non-Operational

- If the Chlorinator is not functioning, perform a reset by unplugging it for at least 10 seconds, then plugging it back in.
- Ensure there is no moisture near the control box and that the power cord is securely connected to both the outlet and the Chlorinator.

DISCLAIMER

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)
