

Pentair EC-520554

Pentair EC-520554 Salt-Chlorine Generator User Manual

Model: EC-520554

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Pentair EC-520554 Salt-Chlorine Generator. This device is designed to automatically produce chlorine for your pool using common table salt, offering an alternative to traditional chlorine additives. Please read these instructions thoroughly before installation and use to ensure proper function and longevity of the unit.

2. SAFETY INFORMATION

Always observe basic safety precautions when installing and operating this product. Failure to follow these instructions can result in serious injury or property damage.

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Disconnect power to the unit before performing any service or maintenance.
- Keep children away from the equipment.
- Do not operate the unit if it is damaged.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

3. PRODUCT OVERVIEW

The Pentair EC-520554 Salt-Chlorine Generator, also known as IntelliChlor, is designed to provide continuous chlorine production for pools up to 20,000 gallons. It features a durable titanium electrode cell and an integrated control display for easy monitoring.

Key Features:

- **Chlorine Output:** 1.40 lbs (635 gm) every 24 hours.
- **Capacity:** Sanitizes pools up to 20,000 gallons.

- **Electrode Cell:** Titanium blades coated with ruthenium oxide for enhanced durability.
- **Control Display:** Built-in LED indicators and display for monitoring salt levels, sanitizer output, and cell cleanliness.
- **Connections:** 2-inch union inlet and outlet connections for simplified cell replacement.
- **Cable:** Includes a 15-foot cable.
- **Power Requirements:** Output 22-39 VDC @ 6 amps maximum from the power center.



Figure 1: Pentair EC-520554 Salt-Chlorine Generator. This image shows the main unit, typically almond in color, with its integrated display and connection points.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your salt-chlorine generator. It is recommended that installation be performed by a qualified pool professional.

Installation Steps (General):

1. **Placement:** Select a suitable location for the generator cell and power center, ensuring it is accessible for maintenance and away from direct sunlight or extreme weather.
2. **Plumbing:** Integrate the cell into your pool's filtration system plumbing using the 2-inch union inlet and outlet connections. Ensure a watertight seal.
3. **Electrical Connection:** Connect the power center to a dedicated electrical circuit as per local electrical codes. The unit requires 22-39 VDC @ 6 amps maximum from the power center.
4. **Cable Connection:** Connect the 15-foot cable from the cell to the power center.
5. **Initial Salt Level:** Add the appropriate amount of salt to your pool water to reach the recommended salinity level as specified in the detailed installation guide (not included in this summary).
6. **System Start-up:** Follow the initial start-up procedures outlined in the comprehensive product manual to calibrate and activate the system.

For detailed plumbing and electrical diagrams, refer to the complete installation manual provided with your product.

5. OPERATING INSTRUCTIONS

The Pentair EC-520554 is designed for user-friendly operation with its built-in control display.

Monitoring and Adjustment:

- **LED Indicators:** The unit features LED indicators that provide real-time status updates on salt levels, sanitizer output, and cell cleanliness. Consult the full manual for a legend of these indicators.
- **Display Screen:** The easy-to-read display allows you to view current operating parameters.
- **Output Adjustment:** Simple controls allow you to adjust the chlorine output to meet your pool's specific needs. Refer to the detailed operating guide for instructions on how to modify output settings.
- **Automatic Operation:** Once configured, the generator will automatically produce chlorine, maintaining consistent sanitation levels.

Regularly check the display and LED indicators to ensure optimal performance and address any alerts promptly.

6. MAINTENANCE

Routine maintenance ensures the longevity and efficiency of your Pentair EC-520554 Salt-Chlorine Generator.

Key Maintenance Tasks:

- **Cell Cleaning:** The unit's display will indicate when the cell requires cleaning. Follow the manufacturer's instructions for acid washing or other recommended cleaning procedures to remove scale buildup from the titanium electrodes.
- **Salt Level Monitoring:** Periodically test your pool's salt level and adjust as necessary to maintain the recommended range for efficient chlorine production.
- **Visual Inspection:** Regularly inspect the cell, cables, and connections for any signs of wear, damage, or leaks.
- **Winterization:** If applicable to your climate, follow proper winterization procedures to protect the unit from freezing temperatures.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, consult a qualified service technician.

Problem	Possible Cause	Solution
Low Chlorine Output	Low salt level, dirty cell, low water flow, incorrect output setting.	Check and adjust salt level. Clean the cell. Ensure proper water circulation. Increase output setting.
"Check Salt" Indicator On	Insufficient salt in pool water.	Test pool water for salt content and add salt as needed.
"Clean Cell" Indicator On	Scale buildup on electrode plates.	Perform cell cleaning procedure as outlined in the full manual.
No Power to Unit	Circuit breaker tripped, loose electrical connection.	Check circuit breaker and reset if necessary. Verify all electrical connections are secure.

8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	EC-520554
Brand	Pentair
Item Type Name	Salt-Chlorine Generator
Chlorine Output	1.40 lbs (635 gm) per 24 hours
Pool Capacity	Up to 20,000 gallons
Power Output	22-39 VDC @ 6 amps maximum (from power center)
Connections	2-inch union inlet and outlet
Cable Length	15 feet
Electrode Material	Titanium coated with ruthenium oxide
Item Weight	7.5 Pounds
UPC	788379887520

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or to locate an authorized service center, please refer to the official Pentair website or contact Pentair customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: PENTAIR WATER POOL AND SPA, INC.