Pentair EC-521105

Pentair IntelliChlor Salt Cell Chlorine Generator User Manual

Brand: Pentair | Model: EC-521105

1. Introduction

The Pentair IntelliChlor Salt Cell Chlorine Generator is designed to automatically produce chlorine for your pool using common table salt. This system provides effective sanitation without the need for handling traditional chlorine additives, offering a more convenient and efficient way to maintain clean and clear pool water.

2. Safety Information

Always read and understand all instructions before installing or operating this product. Failure to follow safety warnings and instructions could result in property damage, serious injury, or death.

- 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 pool equipment.
- Maintain proper water chemistry as recommended by pool professionals.
- Do not operate the unit if the water temperature is below recommended levels, as this can damage the cell.

3. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your IntelliChlor Salt Cell Chlorine Generator. It is recommended that installation be performed by a qualified pool professional.

Key Steps:

1. **Placement:** Install the salt cell in the pool's return line after the filter and heater. Ensure adequate space for maintenance and air circulation.
2. **Plumbing:** Connect the cell using appropriate PVC fittings. Ensure watertight seals to prevent leaks.
3. **Electrical Connection:** Connect the power center to a dedicated circuit as per local electrical codes.
4. **Salt Level:** Add the appropriate amount of salt to your pool water to reach the recommended salinity level

(typically 3000-4000 ppm). Allow salt to dissolve completely before starting the system.

5. **Initial Startup:** Once installed and salt is dissolved, power on the unit. The system will perform initial diagnostics.

The Pentair IntelliChlor Salt Cell Chlorine Generator is designed for straightforward integration into existing pool systems. Ensure all connections are secure and the unit is properly aligned in the plumbing.

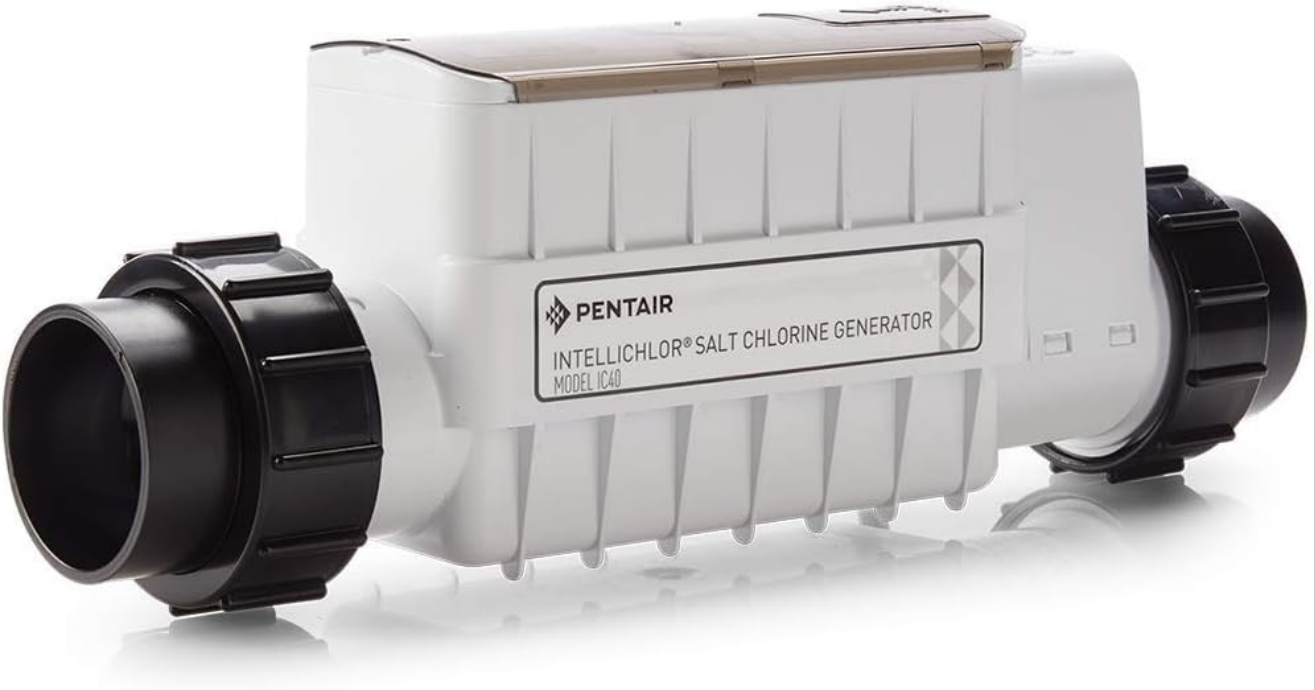


Image: The Pentair IntelliChlor Salt Cell Chlorine Generator, showing its main body and connection points for pool plumbing.

4. Operating Instructions

The IntelliChlor system is designed for user-friendly operation with push-button controls and clear displays.

- **Power On/Off:** Use the main power switch to turn the unit on or off.
- **Sanitizer Output Adjustment:** Use the 'LESS' and 'MORE' buttons to adjust the chlorine output percentage. This allows you to fine-tune chlorine production based on your pool's needs and usage.
- **Salt Level Monitoring:** The easy-to-view displays provide real-time salt level readings. Ensure salt levels remain within the optimal range for efficient operation.
- **Status Indicators:** The unit features status lights indicating conditions such as cold water, cell status, and flow.
- **Boost Mode:** Press both 'LESS' and 'MORE' buttons simultaneously to activate Boost mode for a 24-hour 100% output, useful after heavy pool use or during periods of high demand.
- **Diagnostic Capabilities:** The system offers full diagnostic capabilities, including cell life tracking, communicating remaining hours of cell life in real-time. It captures daily performance data such as production settings, hours of operation, chlorine output, cell cleaning cycles, salt readings, and water temperature averages.
- **Automation System Communication:** The unit can communicate with IntelliTouch, EasyTouch, and SunTouch Automation Systems for integrated pool management.

5. Maintenance

Regular maintenance ensures the longevity and efficiency of your IntelliChlor Salt Cell.

- **Cell Cleaning:** The system features on-time cycling to prevent calcium and scale build-up, maximizing cell life. However, periodic inspection and manual acid cleaning (recommended every 3 months or as indicated by the unit's status light) may be necessary to remove stubborn deposits.
- **Water Chemistry:** Regularly test and balance your pool's water chemistry, including pH, alkalinity, and cyanuric acid, to support optimal chlorine production and prevent scaling.
- **Winterization:** Follow manufacturer guidelines for winterizing the unit in colder climates to prevent freeze damage.

6. Troubleshooting

This section addresses common issues you might encounter with your IntelliChlor Salt Cell Chlorine Generator.

Problem	Possible Cause	Solution
Low Chlorine Output	Low salt level, dirty cell, low water flow, cold water, or incorrect output setting.	Check salt level and add salt if needed. Clean the cell. Ensure pump is running and filter is clean. Check water temperature. Increase sanitizer output setting.
"Check Cell" Light On	Cell needs cleaning or is at the end of its life.	Perform an acid wash cleaning of the cell. If the light persists after cleaning, the cell may need replacement.
No Power to Unit	Circuit breaker tripped, loose wiring, or power supply issue.	Check circuit breaker. Verify all electrical connections are secure. Consult a qualified electrician if issues persist.
"Cold Water" Light On	Water temperature is too low for operation.	The unit automatically shuts off in cold water to protect the cell. Operation will resume when water temperature rises.

For more complex issues or if troubleshooting steps do not resolve the problem, contact Pentair customer support or a certified pool technician.

7. Specifications

Feature	Detail
Brand	Pentair
Model Number	EC-521105
Product Dimensions	17 x 6.5 x 7 inches
Item Weight	8 Pounds
UPC	788379887544
Product Benefits	Maintains clean, sanitized water through automatic pool cleaning and scale prevention.

8. Warranty and Support

Warranty Information:
If you register your Pentair IntelliChlor Salt Cell Chlorine Generator with Pentair within 60 days of installation, you

will receive a 2-year warranty. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please visit the official Pentair website or contact their customer service department. You can also find additional resources and FAQs on the Pentair Store on Amazon.

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Ask a question about this manual

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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