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> Pentair IC15 IntelliChlor Salt Chlorine Generator User Manual

## Pentair EC-520888

# Pentair IC15 IntelliChlor Salt Chlorine Generator User Manual

Model: EC-520888

[Overview](#)   [Setup](#)   [Operating](#)   [Introduction](#)   [Safety Information](#)   [Product](#)  
[Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

The Pentair IC15 IntelliChlor Salt Chlorine Generator is designed to provide a continuous supply of chlorine for your pool, utilizing common table salt. This system offers an alternative to traditional chlorine additives, eliminating the need for frequent handling and storage of harsh chemicals. It automatically converts salt into chlorine, ensuring clean and clear pool water with reduced chemical odors and irritation.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before installing, operating, or performing maintenance on the IntelliChlor Salt Chlorine Generator. Failure to follow these instructions could result in serious injury or death.

- **Electrical Safety:** Ensure all electrical connections are made by a qualified electrician and comply with local and national electrical codes. Disconnect power before servicing.
- **Chemical Handling:** Although the system reduces the need for traditional chlorine, proper water chemistry balance is still essential. Handle all pool chemicals with care and wear appropriate protective gear.
- **Installation:** Install the unit according to the manufacturer's guidelines. Ensure proper ventilation and clearance around the equipment.
- **Children:** Keep children away from pool equipment and chemicals.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 3. PRODUCT OVERVIEW

The Pentair IC15 IntelliChlor Salt Chlorine Generator integrates the cell and control panel into a single compact unit, designed for ease of use and efficient chlorine production.

### Key Features:

- Suitable for above-ground pools up to 15,000 gallons.
- Combines the chlorine generating cell and control panel in one unit.
- Includes an external power supply for convenient installation.
- Features durable titanium electrode cell blades for long-lasting performance.
- Designed to connect to 2-inch PVC piping for seamless integration into your pool system.

### Product Components:



Figure 3.1: The Pentair IC15 IntelliChlor Salt Chlorine Generator, showing both the cell unit and its external power supply.



Figure 3.2: Close-up view of the IntelliChlor IC15 cell unit, which integrates the control panel and salt level indicators.



Figure 3.3: The external power supply unit for the Pentair IC15 IntelliChlor Salt Chlorine Generator, providing necessary power to the cell.

## 4. SETUP

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

### Installation Steps:

1. **Placement:** Select a suitable location for the IntelliChlor cell and power supply. The cell should be installed in the pool's return line after the filter and heater (if applicable).
2. **Plumbing:** Connect the IntelliChlor cell to your pool's 2-inch PVC piping. Ensure all connections are watertight and secure.
3. **Electrical Connection:** Mount the external power supply in a dry, protected area, adhering to all local electrical codes. Connect the power supply to the IntelliChlor cell and to a dedicated power source. Ensure the power supply is properly grounded.
4. **Initial Salt Level:** Before starting the system, ensure your pool's salt level is within the recommended range (typically 3200-3800 ppm, ideal 3600 ppm). Refer to the unit's display for current salt levels.
5. **System Start-up:** Once plumbing and electrical connections are complete and salt levels are correct, power on the pool pump and then the IntelliChlor system.

## 5. OPERATING INSTRUCTIONS

The IntelliChlor system is designed for automated operation, but understanding its indicators and controls will help ensure efficient chlorine production.

### Control Panel Indicators:

- **Salt Level:** Indicates the current salt concentration in the pool water (Good, Low, High). A "Good" indication (green light) means the salt level is optimal.

- **Status:** Displays operational status, including "Cold Water" (system off if water is too cold) or "Cell" (indicating cell status or need for inspection).
- **Flow:** Indicates if there is sufficient water flow through the cell. A green light signifies good flow.
- **Sanitizer Output:** Shows the percentage of chlorine output, adjustable from 2% to 100%.

### Adjusting Chlorine Output:

Use the "LESS" and "MORE" buttons on the control panel to adjust the sanitizer output. Monitor your pool's chlorine levels with a test kit and adjust the output as needed to maintain desired levels.

### Boost Mode:

To activate a 24-hour super chlorination cycle (Boost mode), press both the "LESS" and "MORE" buttons simultaneously. This is useful after heavy pool usage or during periods of high demand.

## 6. MAINTENANCE

The IntelliChlor system is designed for low maintenance, but regular checks and periodic cleaning are necessary to ensure its efficiency and longevity.

### Routine Checks:

- **Salt Level:** Periodically check your pool's salt level using a reliable test kit or by observing the IntelliChlor's salt level indicator. Add salt as needed to maintain the ideal range.
- **Water Chemistry:** Regularly test and balance your pool's pH, alkalinity, and cyanuric acid levels. Proper water chemistry is vital for the efficient operation of the salt chlorine generator.

### Cell Cleaning:

The IntelliChlor cell should be inspected and cleaned every three months, or more frequently if the "Inspect Cell" indicator illuminates. Mineral deposits can build up on the titanium plates, reducing efficiency.

1. **Disconnect Power:** Always turn off the power to the pool pump and the IntelliChlor system before attempting any cleaning or maintenance.
2. **Remove Cell:** Carefully remove the IntelliChlor cell from the plumbing.
3. **Acid Wash:** Prepare a mild acid solution (e.g., 1 part muriatic acid to 4 parts water) in a plastic container. Submerge the cell vertically into the solution, ensuring the electrical connection is not submerged. Allow it to soak until bubbling stops and deposits are removed.
4. **Rinse and Reinstall:** Rinse the cell thoroughly with fresh water and reinstall it into the plumbing. Restore power to the system.

## 7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your IntelliChlor Salt Chlorine Generator.

| Problem             | Possible Cause  | Solution   |
|---------------------|---|--|
| Low Chlorine Output | Low salt level, dirty cell, low water flow, low sanitizer output setting, cold water. | Check salt level and add salt if needed. Clean the cell. Ensure pump is running and filter is clean. Increase sanitizer output setting. Ensure water temperature is above minimum operating level. |

| Problem                     | Possible Cause                                    | Solution  |
|-----------------------------|---|---|
| "Low Salt" Indicator On     | Actual low salt level, sensor issue.              | Test pool water with a separate salt test kit. Add salt gradually until the indicator turns green. If salt is sufficient, inspect cell for damage or consult support. |
| "No Flow" Indicator On      | Insufficient water flow through the cell.         | Check pool pump operation. Ensure skimmer and pump baskets are clear. Backwash or clean filter. Check for closed valves or obstructions in plumbing.                  |
| "Inspect Cell" Indicator On | Cell requires cleaning or is nearing end of life. | Perform an acid wash cleaning of the cell. If the issue persists after cleaning, the cell may need replacement.   |

For issues not covered here, or if problems persist, please contact Pentair customer support or a certified pool technician.

## 8. SPECIFICATIONS

| Attribute          | Detail                                    |
|--------------------|---|
| Model Number       | EC-520888                                 |
| Product Dimensions | 17 x 6.5 x 6.5 inches                     |
| Item Weight        | 13 pounds                                 |
| Manufacturer       | PENTAIR WATER POOL AND SPA, IN            |
| Pool Capacity      | Up to 15,000 gallons (above ground pools) |
| Pipe Connection    | 2 inch PVC                                |
| Ideal Salt Level   | 3600 PPM                                  |

## 9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your Pentair IC15 IntelliChlor Salt Chlorine Generator or visit the official Pentair website. Warranty terms and conditions may vary.

For technical support, troubleshooting assistance, or to locate an authorized service center, please contact Pentair customer service directly. You can also visit the [Pentair Brand Store on Amazon](#) for more product information and resources.

