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CHLORWORKS CWPC

CHLORWORKS CWPC Salt Cell for Pool - Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your CHLORWORKS CWPC Salt Cell. This salt chlorine generator is designed to provide a consistent supply of chlorine to your pool, ensuring clean and sanitized water. Please read this manual thoroughly before installation and operation.



Image 1.1: The CHLORWORKS salt cell working to maintain clean and clear pool water.

2. SAFETY INFORMATION

Always observe basic safety precautions when installing and operating this product to reduce the risk of injury, fire, or electric shock. Failure to follow these instructions can result in severe injury or death.

- **Electrical Safety:** Ensure all electrical connections are made by a qualified electrician and comply with local codes. Disconnect power before servicing.
- **Water Immersion:** Do not submerge the control box or electrical connections in water.
- **Chemical Handling:** Handle pool chemicals, including salt, according to manufacturer's instructions.
- **Children:** Keep children away from pool equipment.



Image 2.1: Warning against submerging the salt cell unit in water.

3. PRODUCT OVERVIEW

The CHLORWORKS CWPC Salt Cell is a robust and efficient solution for pool sanitation. It features a replaceable salt cell, an upgraded flow switch with integrated sensors, and an intuitive digital control panel.

3.1 Key Features

- **Compatibility:** Designed to fit Pentair IntelliChlor 520556 IntelliChlor Power Centers (sold separately). Not compatible with Pentair automation systems.
- **Replaceable Salt Cell:** The salt cell is designed for easy replacement, reducing long-term maintenance costs.
- **Integrated Sensors:** The upgraded flow switch includes built-in temperature and salinity sensors for accurate monitoring.
- **Digital Control:** Features a digital display and push buttons for easy operation and adjustment of chlorine levels (10 settings).

3.2 Components



Image 3.1: Main components of the CHLORWORKS CWPC Salt Cell.

The unit consists of the main salt cell body, an integrated flow switch, a control box, and a power cord. The internal plates within the salt cell are crucial for the electrolysis process.



Image 3.2: Internal plates of the salt cell.

4. INSTALLATION

Proper installation is critical for the performance and longevity of your salt cell. Ensure all pool equipment is turned off before beginning installation.

4.1 Compatibility Check

This unit is designed to be compatible with Pentair IntelliChlor 520556 IntelliChlor Power Centers. Verify your existing power center model before proceeding.

4.2 Physical Installation

1. **Pipe Connection:** The salt cell is designed for 2-inch pipe connections. Ensure your plumbing is compatible or use appropriate adapters.
2. **Mounting:** The unit can be installed vertically or horizontally. Vertical installation is generally recommended to ensure proper water flow and sensor readings. Avoid excessive twists in newly installed piping that could restrict water flow.



Image 4.1: 2-inch pipe connection detail.

Recommended **Vertical Installation**



Normally, vertical or horizontal installation of the cell is fine.

However, if the newly installed pipe is too twisted and there is too much resistance to water flow, it will result "No Flow".

Image 4.2: Recommended vertical installation configuration.

4.3 Electrical Connection

Connect the 4-prong connector from the salt cell to the compatible power center. Ensure a secure and watertight connection.

4 - Prong Connector



Image 4.3: The 4-prong electrical connector.

5. OPERATION

The digital control panel allows for easy monitoring and adjustment of the salt cell's operation.

5.1 Control Panel Overview

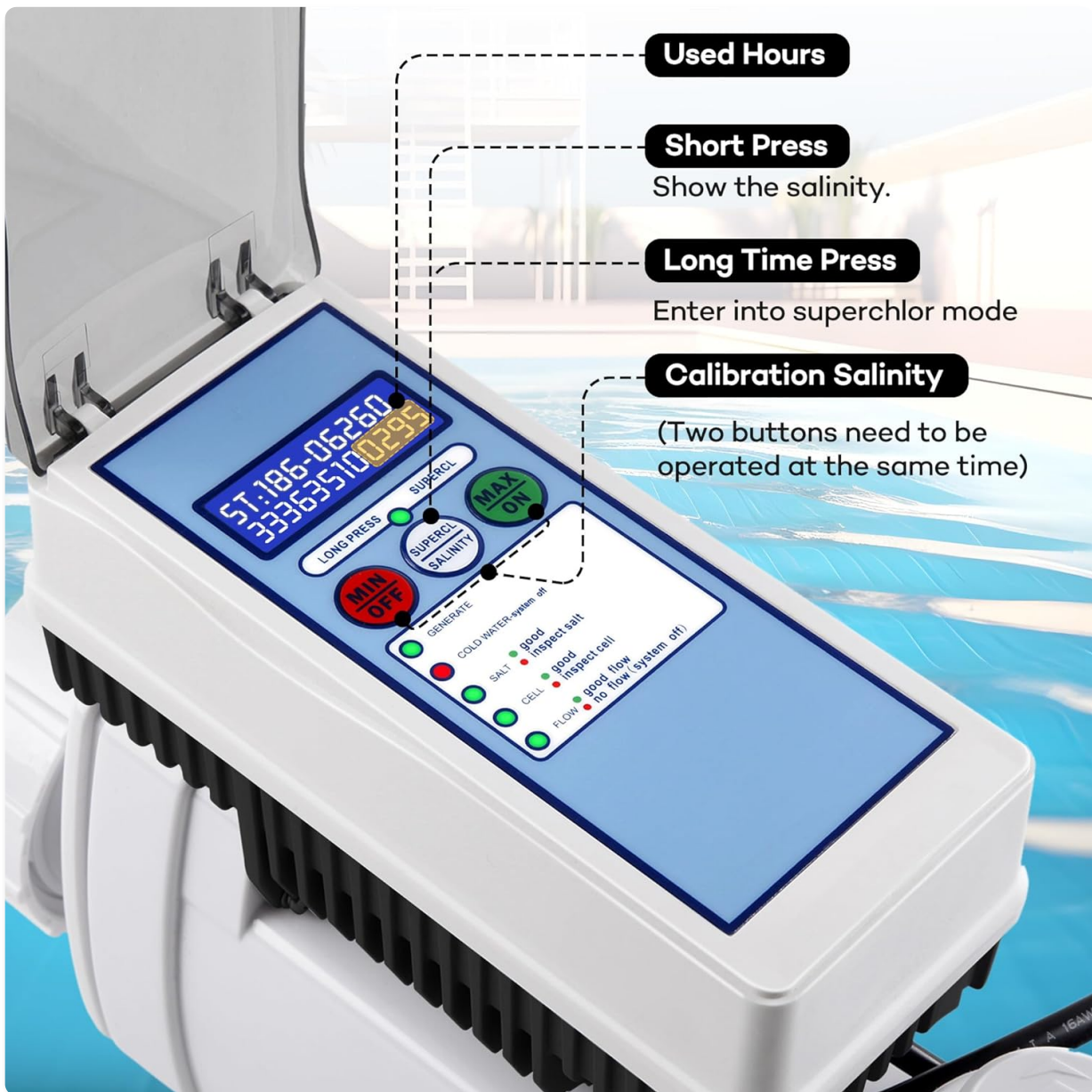


Image 5.1: Digital control panel with display and buttons.

- **Digital Display:** Shows various operational parameters, including used hours and salinity.
- **Short Press:** Pressing a button briefly will display the current salinity level.
- **Long Press:** Pressing and holding a button will activate the superchlorination mode.
- **Chlorine Level Adjustment:** Use the control box buttons to configure one of 10 levels to maintain the desired chlorine output.

5.2 Salinity Calibration

To ensure accurate readings and optimal performance, calibrate the salinity as follows:

1. **Step 1:** Press the "MAX" and "MIN" buttons simultaneously three times. The display will show "SALT Tsys:".
2. **Step 2:** Press "MAX" to decrease the salt level reading or "MIN" to increase it, adjusting to your known pool salinity.
3. **Step 3:** Press "MENU" to return to the normal display for salinity.

How to calibrate salinity?



STEP 1

Press the "MAX" and "MIN" buttons three times at the same time. The display will show "SALT Tsys:".

STEP 2

Press "MAX" to reduce salt level./ Press "MIN" to increase salt level.

STEP 3

Press "MENU" to return to display for SALINITY.

Image 5.2: Salinity calibration procedure.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your CHLORWORKS salt cell.

6.1 Salt Cell Replacement

The salt cell is a consumable component and will require replacement over time. The design allows for easy replacement without needing to purchase an entirely new generator unit.

6.2 Self-Cleaning Function

The unit incorporates a self-cleaning function to extend the service life of the salt cell. This function helps prevent scale buildup on the cell plates.

Self-cleaning Function

Extends the service life of the salt cell.



Temperature Sensor



Salt Level Sensor



Image 6.1: Self-cleaning function and integrated sensors.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your salt cell.

- **"No Flow" Error:** If the display indicates "No Flow," check for obstructions in the plumbing or ensure the unit is installed correctly, especially if new piping has been added. Excessive resistance to water flow can trigger this error.
- **Low Chlorine Generation / "Cold Water" Indicator:** The salt cell's efficiency is affected by water temperature. If the water temperature is too low (typically below 60°F or 15°C), chlorine generation may be reduced or halted. Ensure your pool water is within the optimal temperature range for operation.
- **"Inspect Cell" Warning:** This may indicate a need for cell cleaning, low salt levels, or a worn-out cell. Check salt levels first, then inspect the cell for scale buildup.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	CWPC
Compatibility	Pentair IntelliChlor 520556 IntelliChlor Power Center (sold separately)
Pool Capacity	Up to 40,000 Gallons
Product Dimensions	15 x 9 x 8 inches
Item Weight	8.95 pounds
Manufacturer	CHLORWORKS
Item Form	Granular, Tablet (referring to salt type for pool)
Product Benefits	Kills Bacteria, Maintains Clean Sanitized Water

9. WARRANTY AND SUPPORT

CHLORWORKS is committed to providing quality products and customer satisfaction. If you encounter any issues with your salt chlorine generator, please contact our customer service team for assistance. For support, please refer to the contact information provided with your purchase or visit the official CHLORWORKS website.