Pureline

Pureline Crystal Pure 3.0 Replacement Salt Cell Instruction Manual

Model: PL7711

1. Product Overview

The Pureline Crystal Pure 3.0 Replacement Salt Cell is designed to seamlessly integrate with your existing Pureline Crystal Pure 3.0 salt system, providing efficient and natural pool sanitation. This cell converts dissolved salt into chlorine through electrolysis, ensuring a consistent and gentle sanitization process for your swimming pool water.

Using a saltwater chlorine generator helps maintain stable chlorine levels, reducing the overall need for additional chemicals. This results in softer pool water that is less irritating to eyes, skin, hair, and fabrics compared to traditional chlorine pools, and prevents white residue on your skin.



Figure 1: Pureline Crystal Pure 3.0 Replacement Salt Cell. This image shows the main unit of the salt cell, a cylindrical white component with a cable extending from one end and threaded connections on both ends for installation into pool plumbing.

- Designed as a direct replacement for the Pureline Crystal Pure 3.0 - PL7700 Salt System.
- Utilizes electrolysis for natural chlorine generation from dissolved salt.
- Provides gentle sanitation, reducing irritation to eyes and skin.
- Rated for a lifespan of approximately 7,000 hours in a 20,000-gallon pool.
- Features a 12-foot cord for flexible installation.

2. Compatibility and Safety Information

2.1 Compatibility

This replacement salt cell is specifically compatible with the Pureline Crystal Pure 3.0 system manufactured since 2016. It is crucial to verify your existing system's model to ensure proper fit and function.



Figure 2: Compatibility details. This image illustrates the salt cell's compatibility with the Pureline Crystal Pure 3.0 system and explicitly states it is not compatible with Hayward salt systems. It shows the salt cell and a control panel for a salt system.

Important: This cell is **not** compatible with Hayward salt systems or other brands. Using an incompatible cell may lead to system malfunction or damage.

2.2 Safety Precautions

- Always disconnect power to the pool pump and salt system before attempting any installation, maintenance, or troubleshooting.
- Ensure proper ventilation when working with pool chemicals, including salt.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, when handling pool chemicals or equipment.
- Consult a qualified pool professional if you are unsure about any installation or maintenance procedures.

3. Installation Guide

Follow these steps carefully to install your new Pureline Crystal Pure 3.0 Replacement Salt Cell.

1. **Power Disconnection:** Turn off all power to your pool pump and the existing salt chlorine generator system at the circuit breaker. Verify that the power is off before proceeding.
2. **Locate Existing Cell:** Identify the current salt cell in your pool's plumbing system. It will typically be a cylindrical unit connected inline with the pool's return plumbing.
3. **Drain System (if necessary):** If your salt cell is located below the pool's water level, you may need to close valves or partially drain the system to prevent water loss when removing the old cell.
4. **Disconnect Old Cell:** Carefully unscrew the unions connecting the old salt cell to the plumbing. Disconnect the electrical cable from the control panel.
5. **Inspect Plumbing:** Check the plumbing connections for any debris or damage. Clean as necessary.
6. **Install New Cell:** Position the new Pureline Crystal Pure 3.0 Replacement Salt Cell into the plumbing line. Ensure the flow direction arrow on the cell (if present) matches the water flow.
7. **Secure Connections:** Hand-tighten the union nuts onto the cell's threaded connections. Do not overtighten, as this can damage the cell or plumbing. A slight turn with a wrench after hand-tightening may be required, but be cautious.
8. **Connect Electrical Cable:** Plug the new cell's electrical cable into the designated port on your Pureline Crystal Pure 3.0 control panel. Ensure a secure connection.
9. **Restore Water Flow:** Open any closed valves and allow the pool water to refill the system. Check for leaks at the connections.
10. **Restore Power:** Once all connections are secure and there are no leaks, restore power to the pool pump and salt system at the circuit breaker.
11. **System Initialization:** Refer to your Pureline Crystal Pure 3.0 system's main manual for instructions on initializing or calibrating the new cell.



Figure 3: Salt Cell with threaded end caps. This image shows the salt cell with its two threaded end caps detached, illustrating how it connects to the pool plumbing.

4. Operating Instructions

The Pureline Crystal Pure 3.0 Replacement Salt Cell operates in conjunction with your Pureline Crystal Pure 3.0 control system. Once installed, the system will begin generating chlorine when the pool pump is running and sufficient salt levels are present.

- **Salt Level:** Ensure your pool's salt level is within the recommended range specified by your Pureline Crystal Pure 3.0 system manual. Typically, this is between 3000-3500 ppm (parts per million). Low salt levels will reduce chlorine production and can shorten cell lifespan.
- **Chlorine Production:** The control panel allows you to adjust the chlorine output percentage. Start with a moderate setting and adjust as needed to maintain a free chlorine residual of 1-3 ppm.
- **Pump Run Time:** The salt cell only produces chlorine when the pool pump is running. Ensure adequate pump run time daily to meet your pool's sanitization needs.
- **Water Chemistry:** Regularly test your pool water for pH, alkalinity, calcium hardness, and stabilizer (cyanuric acid) levels. Proper water chemistry is essential for efficient salt cell operation and overall pool health.

For detailed operational settings and advanced features, always refer to the complete instruction manual provided with your Pureline Crystal Pure 3.0 Salt System control unit.

5. Maintenance

Regular maintenance of your salt cell will help ensure its longevity and efficient operation.

- **Visual Inspection:** Periodically inspect the salt cell for any signs of scaling (white, flaky deposits) on the plates inside the cell. This is typically calcium buildup.
- **Cell Cleaning:** If scaling is observed, the cell will need to be cleaned.
    a. Turn off power to the pool system.
    b. Remove the salt cell from the plumbing as described in the installation section.
    c. Use a cleaning stand (such as the AR-PRO GLX-CELLSTAND, often bought separately) or a suitable container to hold the cell vertically.
    d. Prepare a mild acid solution (e.g., 1 part muriatic acid to 4 parts water).**Always add acid to water, never water to acid.**
    e. Carefully pour the acid solution into the cell, ensuring the plates are submerged. Allow it to soak until the bubbling stops and the scale dissolves (typically 10-15 minutes). Do not leave the cell in acid for extended periods.
    f. Rinse the cell thoroughly with fresh water.
    g. Reinstall the cell and restore power.

- **Water Balance:** Maintaining proper pool water chemistry (pH, alkalinity, calcium hardness) is crucial to prevent excessive scaling and prolong the life of your salt cell. High calcium hardness and pH can accelerate scale formation.
- **Winterization:** In colder climates, the salt cell must be removed and stored indoors during winter to prevent freezing damage. Consult your main system manual for specific winterization procedures.

6. Troubleshooting

This section addresses common issues you might encounter with your Pureline Crystal Pure 3.0 Replacement Salt Cell.

Problem	Possible Cause	Solution
Low or No Chlorine Production	Low salt level Dirty/scaled cell Insufficient pump run time Low water temperature Faulty flow switch (if applicable) Control panel setting too low	Test and adjust salt to 3000-3500 ppm. Clean the salt cell (refer to Maintenance section). Increase pump run time. Chlorine production decreases in cold water; consider supplemental chlorination. Check flow switch operation; ensure adequate water flow. Increase chlorine output percentage on control panel.
"Check Cell" or "Inspect Cell" Light/Message	Cell needs cleaning Low salt level Cell nearing end of life	Clean the salt cell. Verify and adjust salt levels. If cleaning and salt adjustment don't resolve, the cell may need replacement.
Leaks at Cell Connections	Loose union nuts Damaged O-rings	Hand-tighten union nuts; use a wrench for a slight additional turn if needed. Inspect O-rings for cracks or wear; replace if necessary.

If problems persist after attempting these solutions, consult your Pureline Crystal Pure 3.0 system's main manual or contact Pureline customer support.

7. Product Specifications



Figure 4: Dimensions of the Pureline Crystal Pure 3.0 Salt Cell. This image provides a diagram showing the length (12-1/2 inches) and diameter (2 inches on one end, 3 inches on the other) of the salt cell, along with the 12 ft cord length.

Specification	Detail
Product Name	Pureline Crystal Pure 3.0 Replacement Salt Cell
Model Number	PL7711
Manufacturer	Pureline
Capacity	Up to 20,000 Gallons
Rated Lifespan	7,000 hours
Cord Length	12 feet
Product Dimensions (approx.)	12.5 x 3 x 2 inches (Length x Max Diameter x Min Diameter)
Product Benefits	Kills Bacteria, Kills Algae, For low-odor sanitization
UPC	810109052639
Country of Origin	China

8. Warranty and Support

Specific warranty details for the Pureline Crystal Pure 3.0 Replacement Salt Cell (Model PL7711) should be obtained directly from the manufacturer, Pureline, or the authorized seller at the time of purchase. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or to inquire about warranty service, please contact Pureline customer service. You can often find contact information on the Pureline website or through the retailer where the product was purchased.

Visit the Pureline Store on Amazon for more information on Pureline products and support resources.

© 2023 Pureline. All rights reserved. This manual is for informational purposes only.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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.

Submit question