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Model: TurboCell S3

INTRODUCTION

The Hayward TurboCell S3 Salt Chlorination Cell is designed to automatically convert pool salt into chlorine, providing consistent sanitization for your pool. This system helps maintain clear, soft water that is gentle on eyes and skin, and prevents fabric fading. It is suitable for new or existing in-ground pools up to 40,000 gallons and is compatible with AquaRite® 900 or AquaRite S3 Salt Chlorination Systems, as well as Omni® automation systems.

SAFETY INFORMATION

Important Safety Instructions: Read and follow all instructions carefully. Failure to do so could result in serious injury or death.

- Always disconnect power to the pool pump and filter before performing any service or maintenance on the TurboCell S3.
- Ensure proper grounding and bonding of all electrical equipment.
- Keep all chemicals, including pool salt, out of reach of children and pets.
- Do not operate the system if any components are damaged.
- Consult a qualified pool professional for installation and complex troubleshooting.

SETUP AND INSTALLATION

The TurboCell S3 is designed for integration with compatible Hayward salt chlorination and automation systems. Professional installation is recommended for optimal performance and safety.

Pre-Installation Checks:

- Verify that your pool volume is within the 40,000-gallon capacity of the TurboCell S3.
- Ensure you have a compatible AquaRite® 900, AquaRite S3, or Omni® automation system.
- Confirm the availability of a suitable location for cell installation in the plumbing line, typically after the filter and heater, and before any return lines to the pool.

Installation Steps (General Guidance):

1. Turn off all power to the pool equipment at the circuit breaker.
2. Drain the pool plumbing system to below the level of the intended cell installation.
3. Cut the existing PVC pipe at the desired installation point.
4. Glue the TurboCell S3 into the plumbing line using appropriate PVC cement, ensuring the flow direction arrow on the cell matches the water flow.
5. Connect the 15 ft. cord from the TurboCell S3 to the control unit of your compatible salt chlorination system.
6. Allow sufficient time for PVC cement to cure before refilling the system.
7. Once cured, slowly refill the plumbing system and check for leaks.
8. Restore power and follow the startup procedures for your specific salt chlorination control system.



Figure 1: Hayward TurboCell S3 Salt Cell. This image shows the clear body of the TurboCell S3, allowing for easy visual inspection of the internal plates. The cell has threaded connections on both ends for plumbing integration and a blue label indicating "Hayward TurboCell" and its capacity.

OPERATING INSTRUCTIONS

The TurboCell S3 operates in conjunction with your Hayward salt chlorination system. Refer to your specific control system's manual for detailed operating instructions, including initial startup, chlorine output adjustment, and winterization.

Key Operating Principles:

- **Salt Level:** Maintain the recommended salt level in your pool as specified by your salt chlorination system's manufacturer (typically 2700-3400 ppm). Insufficient salt will reduce chlorine production and can damage the cell.
- **Water Chemistry:** Regularly test and balance your pool's pH, alkalinity, and stabilizer (cyanuric acid) levels. Proper water chemistry is crucial for efficient chlorine production and cell longevity.
- **Chlorine Output:** Adjust the chlorine output setting on your control system based on your pool's demand, bather load, and environmental conditions.
- **Flow Sensor:** The cell includes a flow sensor to ensure it only generates chlorine when water is flowing through it, protecting the cell from damage.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your TurboCell S3.

Cell Inspection:

- Periodically inspect the clear cell housing for scale buildup on the plates. The frequency depends on your water hardness.
- If significant scale is visible, the cell requires cleaning.

Cell Cleaning (Acid Wash):

Caution: Always wear appropriate personal protective equipment (gloves, eye protection) when handling acid.

1. Turn off all power to the pool equipment.
2. Remove the TurboCell S3 from the plumbing line.
3. Plug one end of the cell with a rubber stopper or cap.
4. Mix a solution of 4 parts water to 1 part muriatic acid in a clean plastic bucket **Always add acid to water, never water to acid.**
5. Carefully pour the acid solution into the cell until the plates are submerged.
6. Allow the solution to work for 5-15 minutes, or until bubbling stops and scale is removed. Do not leave the cell in the solution for extended periods.
7. Pour out the acid solution (dispose of properly according to local regulations).
8. Rinse the cell thoroughly with fresh water.
9. Reinstall the cell and restore power.

TROUBLESHOOTING

This section addresses common issues you might encounter with your TurboCell S3. For more complex problems, consult your salt chlorination system's manual or a qualified pool professional.

Problem	Possible Cause	Solution
"Low Salt" or "Check Salt" indicator	Low salt level in pool; dirty cell; cold water temperature.	Test salt level and add salt if necessary; clean the cell; ensure water temperature is above 50°F (10°C).
No chlorine production	Low salt; dirty cell; low flow; faulty control unit; cell nearing end of life.	Check salt and clean cell; ensure pump is running and filter is clean; consult control unit manual; consider cell replacement.
"No Flow" indicator	Pump off or air in system; clogged filter; faulty flow sensor.	Ensure pump is running and primed; backwash/clean filter; inspect flow sensor for debris or damage.

SPECIFICATIONS

- **Product Name:** Hayward TurboCell S3 Salt Chlorination Cell
- **Model:** TurboCell S3
- **Pool Capacity:** Up to 40,000 Gallons
- **Cord Length:** 15 ft.
- **Compatibility:** AquaRite® 900, AquaRite S3 Salt Chlorination Systems, Omni® automation systems
- **Cell Type:** Clear for easy inspection
- **Dimensions:** Approximately 13 x 9 x 9 inches
- **Weight:** Approximately 2.2 pounds
- **UPC:** 610377414555

WARRANTY AND SUPPORT

The Hayward TurboCell S3 Salt Chlorination Cell comes with a **3-year warranty** when sold from a Totally Hayward®

professional. This warranty covers defects in materials and workmanship under normal use and service.

For Warranty Claims and Technical Support:

- Contact the authorized Hayward dealer or pool professional from whom you purchased the product.
- Visit the official Hayward website for support resources and contact information.
- Ensure you have your proof of purchase and product serial number available when seeking support.

Note: Expert Line® products, including this TurboCell S3, are exclusively available through local pool professionals to ensure proper installation and support.