

Hayward W3T-CELL-15

Hayward W3T-CELL-15 TurboCell Salt Chlorination Cell Instruction Manual

Model: W3T-CELL-15

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Hayward W3T-CELL-15 TurboCell Salt Chlorination Cell. Please read all instructions carefully before beginning installation or operation.

2. IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these instructions can result in serious injury or death.

- Always disconnect power to the pool pump and chlorinator before servicing.
- Ensure proper grounding and bonding of all electrical equipment.
- Keep children away from pool equipment.
- Consult a qualified electrician or pool professional for installation if you are unsure.
- Maintain proper water chemistry as recommended by Hayward.

3. PRODUCT OVERVIEW

The Hayward W3T-CELL-15 TurboCell is a replacement salt chlorination cell designed for in-ground swimming pools up to 40,000 gallons. It converts dissolved salt into chlorine, providing a continuous supply of natural chlorine for clean, soft, and clear pool water.

Key Features:

- Produces chlorine from salt, reducing the need for harsh chemical chlorine.
- Designed for pools up to 40,000 gallons.
- Compatible with Hayward AquaRite, AquaRite Pro, SwimPure Plus, OmniLogic, OmniHub, ProLogic, and AquaPlus systems.
- Features a 15-foot cable for flexible installation.

Product Components:



Figure 1: The Hayward W3T-CELL-15 TurboCell Salt Chlorination Cell, a white cylindrical unit with a blue label, featuring a 15-foot cable and threaded connections on both ends for integration into pool plumbing systems.



Figure 2: Diagram illustrating the dimensions of the W3T-CELL-15 TurboCell. The cell measures approximately 12.28 inches in length, 4.9 inches in height, and 4.2 inches in width, with a weight of 4.4 lbs and a 15 ft cord length.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your TurboCell. It is recommended to have this unit installed by a certified pool professional.

Installation Steps:

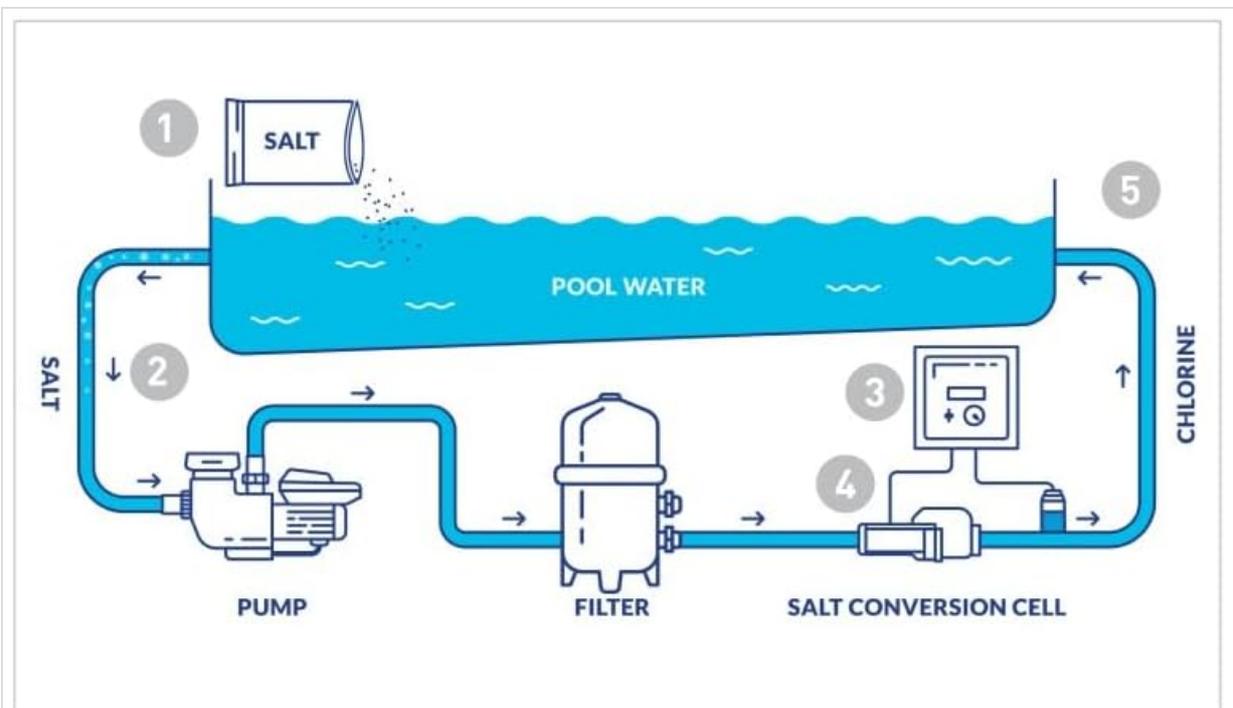
1. **Turn off Power:** Disconnect all electrical power to the pool pump and existing chlorinator system at the circuit breaker.
2. **Drain System:** Close the necessary valves to isolate the existing salt cell and drain the water from the

plumbing lines.

3. **Remove Old Cell:** Unscrew the union nuts on both ends of the old salt cell and carefully remove it from the plumbing.
4. **Inspect O-rings:** Ensure the new TurboCell comes with new O-rings. If not, acquire suitable replacements.
5. **Install New Cell:** Position the new W3T-CELL-15 TurboCell in the plumbing line, ensuring the flow arrow on the cell points in the direction of water flow towards the pool. Tighten the union nuts securely by hand, then use a wrench for a final quarter-turn.
6. **Connect Cable:** Plug the 15-foot cable from the new TurboCell into the control box of your compatible Hayward salt chlorination system (e.g., AquaRite, OmniLogic).
7. **Restore Water Flow:** Open the valves to allow water to flow back into the system. Check for any leaks.
8. **Restore Power:** Turn on the electrical power to the pool pump and chlorinator system.
9. **System Configuration:** Refer to your Hayward control system's manual to ensure it recognizes the new cell and is configured for the correct cell type (T-CELL-15).



Figure 3: An installed Hayward W3T-CELL-15 TurboCell integrated into a pool's PVC plumbing system, connected by its cable to a nearby control unit.



HOW HAYWARD SALT SYSTEMS WORK

- 1 **Pool salt** (NaCl) is added to the water
- 2 **Water** dissolves salt into teardrop-level salinity
- 3 **Chlorinator** adjusts chlorine production for perfect balance
- 4 **Salt conversion cell** turns salt into chlorine gas (Cl_2)
- 5 **Chlorine gas** (Cl_2) reacts with pool water to form a sanitizing compound (HOCl)

Figure 4: A schematic diagram illustrating the process of a Hayward salt system. Pool salt is added to the water, which then dissolves. The chlorinator adjusts chlorine production, and the salt conversion cell (W3T-CELL-15) turns salt into chlorine gas, which reacts with pool water to form a sanitizing compound.

Informational Video: Hayward T-Cell Replacement

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Video 1: An informational video from a seller demonstrating the replacement process for a Hayward T-Cell, highlighting its ease of installation and benefits for pool maintenance.

5. OPERATING INSTRUCTIONS

Once installed, your Hayward TurboCell system will automatically generate chlorine. Monitor your pool's water chemistry regularly to ensure optimal performance.

Initial Startup:

1. Ensure the pool's salt level is within the recommended range (typically 2700-3400 ppm, with an ideal level of 3200 ppm).
2. Set the desired chlorine output percentage on your Hayward control system. Start with a moderate setting and adjust as needed based on chlorine test results.
3. Allow the system to run for 24 hours before retesting chlorine levels.

Maintaining Water Chemistry:

- Regularly test your pool water for free chlorine, pH, alkalinity, and stabilizer (cyanuric acid) levels.
- Adjust the chlorine output on your control system to maintain desired free chlorine levels.
- Add salt as needed to maintain the recommended salt concentration.



Figure 5: A bar chart comparing salt levels. Ocean water is at 35,000 PPM, human tears at 9,000 PPM, and Hayward salt pools are ideally maintained at 3,200 PPM, indicating a low and comfortable salt level.

Product Features Video: My Favorite Features of This TurboCell Salt Chlorinator

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Video 2: A seller's video highlighting the favorite features of the TurboCell Salt Chlorinator, emphasizing its benefits for pool owners.

6. MAINTENANCE

Regular cleaning of your TurboCell is essential to prevent scale buildup and ensure efficient chlorine production. The frequency of cleaning depends on your pool's water chemistry and hardness.

Cleaning the Cell:

1. **Turn off Power:** Disconnect all electrical power to the pool pump and chlorinator.
2. **Remove Cell:** Unscrew the union nuts and carefully remove the TurboCell from the plumbing.
3. **Inspect Cell:** Look inside the cell for any white or flaky deposits on the plates. This is scale buildup.
4. **Acid Wash (if necessary):** If scale is present, perform an acid wash using a solution of 1 part muriatic acid to 4 parts water. Always add acid to water, never water to acid. Submerge the cell plates in the solution for a few minutes until the bubbling stops. Do not soak for extended periods.
5. **Rinse and Reinstall:** Thoroughly rinse the cell with fresh water, then reinstall it into the plumbing.
6. **Restore Power:** Turn on the electrical power and resume normal operation.

Note: Some Hayward systems have an "Inspect Cell" indicator that will illuminate when cleaning is recommended.

7. TROUBLESHOOTING

If your Hayward TurboCell system is not performing as expected, consult the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Low Chlorine Output	Low salt level, dirty cell, low water flow, low stabilizer, cell nearing end of life.	Check salt level, clean cell, ensure pump is running and valves are open, test stabilizer, consider cell replacement.
"Check Salt" Light On	Low salt level, sensor issue.	Test salt level and add salt if needed. If salt is correct, consult Hayward support.
"Inspect Cell" Light On	Scale buildup on cell plates.	Perform an acid wash as described in the Maintenance section.
"No Flow" Light On	Low water flow through the cell.	Check pump, filter, and valves for obstructions or issues. Ensure adequate water circulation.

8. SPECIFICATIONS

- **Model:** W3T-CELL-15
- **Pool Capacity:** Up to 40,000 gallons
- **Cable Length:** 15 feet
- **Dimensions:** 11.7 x 5.6 x 3.8 inches
- **Item Weight:** 4.11 pounds
- **UPC:** 610377388184
- **Compatibility:** Hayward AquaRite, AquaRite Pro, SwimPure Plus, OmniLogic, OmniHub, ProLogic, AquaPlus
- **Certifications:** Independently certified by NSF

9. WARRANTY AND SUPPORT

Warranty Information:

The Hayward W3T-CELL-15 TurboCell typically comes with a 3-year limited warranty from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service.

Note: Warranty terms may vary. Refer to the official Hayward warranty documentation included with your product for complete details.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact Hayward Customer Support:

- **Website:** hayward.com
- **Phone:** 1-888-HAYWARD