



## SALT CHLORINATION SYSTEM REPLACEMENT CELL



## INSTALLATION AND OPERATION MANUAL

READ AND FOLLOW ALL INSTRUCTIONS  
SAVE THESE INSTRUCTIONS

Thank you for your purchase of a CaliMar® replacement salt cell. Our cells are designed to meet or exceed original specifications, for optimal performance and reliability. The CMARCHA40-1Y is direct replacement cells for Hayward® saltwater chlorination systems.

CaliMar® Salt Cell Part Number	Volume in Gallons	Hayward® Salt Cell Part Number	Hayward® Saltwater Chlorination System Part Numbers
CMARCHA40-1Y	40,000	T-CELL-15 GLX-CELL-15	W3AQR15   AQR15

## IMPORTANT NOTES ON SYSTEM COMPATIBILITY

The CaliMar® CMARCHA40-1Y can be used in all Hayward® AquaRite® systems and all Hayward® AquaLogic® systems. This makes it a more universal replacement cell for Hayward® systems than the CaliMar® CMARCHA15-2Y (T-CELL-3 equivalent, 15,000 gallon capacity) or the CaliMar® CMARCHA25-2Y (T-CELL-9 equivalent, 25,000 gallon capacity). These cells can only be used in AquaRite® systems with firmware revision 1.5 or newer or in AquaLogic® systems with firmware revision 4.2 or newer. The revisions took place in 2009.

If any of the following applies to you, the CaliMar® CMARCHA40-1Y replacement salt cell is the proper generic replacement cell choice for your Hayward® salt system:

- Your system was made in or before 2009
- Your pool is larger than 25,000 gallons in volume
- You are replacing a T-CELL-15 salt cell

➤ **Note:** *When replacement cell is installed with an AquaLogic® or ProLogic® system life expectancy and warranty are shortened to half.*

## System Configuration

When replacing an existing T-CELL-15, GLX-CELL-15 or generic equivalent cell with the CMARCHA40-1Y, no system reconfiguration is necessary. However, when using the CMARCHA40-1Y to replace a T-CELL-3 or T-CELL-9 (or a generic equivalent), some adjustments may be necessary.

No reconfiguration is necessary for these models:

- AQ-RITE (AquaRite® systems from 2008 and earlier – firmware older than version 1.5)
- AQ-RITE-XL

Reconfiguring for other salt system models:

- For AquaRite® models from 2009 or later, firmware version 1.5 or newer:
  - Slide the main switch to “Auto”
  - Push the Diagnostic button until “t-xx” shows on the display, if “t-15” is on the display, skip the next step
    - To change displayed cell type, slide the main switch from “Auto” to “Super Chlorinate” and back to “Auto”, repeating until “t-15” is displayed
  - Push Diagnostic Button to exit
- For AquaRite® Pro models:
  - Access Settings Menu by pushing “Settings” button
  - Push “>” until Chlor. Config. is displayed, then push “+”
  - Push “>” repeatedly until “Cell Type” is displayed
  - Push “+” or “-” until “T-CELL-15” is displayed
  - Exit Settings Menu by pushing “Info” button
- For all ProLogic® models:
  - Enter the Configuration Menu
  - Push “>” until Chlor. Config. is displayed, then push “+”
  - With Chlorinator enabled, push “>” repeatedly until “Cell Type” is displayed
  - Push “+” or “-” until “T-CELL-15” is displayed
  - Exit Settings Menu by pushing Menu button

## Installation

**IMPORTANT:** Always make sure the input power is completely disconnected and all pool equipment is shut off before attempting any service procedures. All service should be performed by a qualified professional.

1. Turn the power to both the filter pump and the cell's power center off.
2. Remove the old salt cell from the plumbing and unplug it from the cell cord connection it to the power center.
3. Inspect the O-rings on the unions connecting the cell to the plumbing to see if they need replacement. If so, replace them before installing the new cell.
4. Place the replacement salt cell in line and secure the unions by hand. Do not overtighten with use of tools.
5. Plug the cell cord back into the power supply and turn the filter pump and cell power center both back on
6. Refer to the owner's manual of your salt system for regular operation instructions.

## Operation

**NOTE:** The total working hours for the cell replacements should be less than 8 hours total per day. If you are using a variable speed pump for 24 hours a day be sure to adjust the chlorine output to 25-30%. If the pump is only running 10 hours per day adjust the chlorine output between 60-80%.

You can use this calculation to determine the appropriate chlorine output for your pool at the suggested 6 hours per day.

- Pump running 24 hours a day x 25% chlorine output = 6-hour cell run time per day at 25%
- Pump running 20 hours a day x 30% chlorine output = 6-hour cell run time per day at 30%
- Pump running 15 hours a day x 40% chlorine output = 6-hour cell run time per day at 40%
- Pump running 12 hours a day x 50% chlorine output = 6-hour cell run time per day at 50%
- Pump running 8 hours a day x 75% chlorine output = 6-hour cell run time per day at 75%

## Maintenance

There are several routine steps you can take to help extend the life expectancy of your CaliMar® replacement cell and ensure its usefulness under normal operating conditions.

1. Visually examine the cell each time the "Inspect Cell" LED light comes on. This light will turn on after every 500 hours of operation, and thus if you run your pump six hours per day the light will serve as a reminder roughly every three months. Make sure to turn the filter pump and cell power center off before doing so.
2. Calcium will build up over time on the cell blades, particularly in periods of high use or where water minerals are abundant, but cleaning the cell is a simple process that will usually remedy the problem.

- a. After completely removing the cell from plumbing and the power supply, hose off scale and loose debris from the cell blades. Do not use sharp objects to remove buildup from the blades, as this will damage their chemical composition and shorten the cell's life span.
  - b. If needed, use a solution of 80% water and 20% muriatic acid to clean the cell (always add acid to the water). If a cell cleaning stand is available, fill the cell with the solution and let stand for about 10 minutes. If not, the solution can be poured into a bucket and the cell dipped into it, taking care to avoid the acid contacting the cord harness.
  - c. Rinse the cell with clean water and reattach to the plumbing line.
3. If the "Inspect Cell" light remains on after a thorough cleaning, this is usually a sign that the cell is wearing down and needs replacing.

## Limited Warranty

Your CaliMar® replacement cell is warranted to be free from defects in materials and workmanship, under normal use and non-commercial application, for a period of one (1) year. **When used with AquaLogic® or ProLogic® warranty is shortened to six (6) months.** This limited warranty is subject to the following terms, conditions, and exclusions.

To obtain the benefits of this warranty, contact the warranty department for troubleshooting. Proof of purchase may be required. This warranty extends to the original retail purchaser and original installation site only, beginning at the original date of purchase, and is non-transferrable. This cell is intended for residential pool use and any commercial application voids all warranties.

Should a defect in any item or part covered by the warranty become evident during the warranty's term, CaliMar® will at its sole discretion repair or replace such item or part. CaliMar® reserves the right to replace defective parts with new or refurbished parts. This warranty does not include the cost of labor or transportation charges for equipment or component parts to or from CaliMar®, or the removal, reinstallation, or any such costs incurred in obtaining warranty. The warranty is not applicable to problems arising from circumstances outside the control of CaliMar®, including, but not limited to the following:

- Product discoloration, or any other cosmetic or superficial damage or deterioration, regardless of its cause.
- Problems arising from failure to maintain proper water chemistry levels, per manufacturer's recommendations, as outlined in the Owner's Manual.
- Problems resulting from tampering, accident, electrical surges, abuse, neglect, unauthorized or unqualified repairs, product alteration, fire, flood, freeze damage, Acts of Nature or Acts of God.
- Problems resulting from tampering, accident, fire, flood, freezing, lightning, insects, or other natural elements, or other circumstances beyond the control of CaliMar®.
- Damage due to over-tightening of threaded components or excessive pressure or stress.
- Damage or premature wear due to improper pool chemistry, and failure to maintain pool water chemistry in accordance with the recommendations contained in the owner's manual.
- Damage due to improper installation or connection to improper voltages, including materials and workmanship supplied by others.
- Damage or degrading of concrete, stone, wood or synthetic surfaces adjacent to the swimming pool or spa.
- Damage due to negligence or failure to properly maintain equipment, including the maintenance of clean and tight electrical connections.
- Damage due to improper service, as well as unauthorized equipment modifications and use of non-genuine replacement parts.
- Damage due to misapplication, misuse, abuse, overuse the cell lifetime (over 10 hours per day) or failure to operate equipment as specified in the owner's manual.
- Material supplied or workmanship performed by others in the process of installation.
- O-Rings, rubber gaskets, electrical fuses, and circuit-breaker components are normal replacement items subject to wear and are excluded from the warranty.

Disclaimers: This limited warranty constitutes the entire warranty. No other warranties apply, expressed or implied. This limited warranty gives you specific legal rights, which vary from state to state. The liability of CaliMar® shall not exceed the repair or replacement of defective items or parts under the referenced limited warranty terms. Under no circumstances shall CaliMar® or authorized agent/installer be responsible for consequential, special, or incidental damage(s) of any kind, including but not limited to personal injury, property damage, or damage to or loss of equipment. CaliMar® or agent/installer is not liable for any other expenses that may be incurred during installation or servicing. This warranty is valid only in the United States of America.



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