

SAY *hello* TO



Change your water.

Change your life.

HALO 5-STAGE

Homeowner's Guide

800.591.0538 • www.HALOWater.com



WQA Tested & Certified
According to NSF/ANSI 61
NSF/ANSI 372 for lead free compliance

HALO 5

Solves Hard Water Problems



HALO 5 uses the HALO ION conditioner to solve these problems by physically treating the water.

Dissolve Scale • Prevent Scale • Inhibit Corrosion

HALO 5

Solves Chlorine Problems



HALO filtration systems are effective at reducing chlorine, chloramines, and chlorination by-products from all of your household water.

No more chlorine damage • No more bad taste or smell
No more bottled water



STAGE 1 Granular Activated Carbon (GAC)

NSF Certified acid-washed GAC for the general removal of chlorine, chloramines, gases, dyes, fuels, heavy metals, man-made pollutants, disinfectants, pesticides, TTHM, sodium hypochlorite, undesirable odors, undesirable taste and volatile organic contaminants.

Our NSF/ANSI Certified GAC meets or exceeds all Food Chemical Codex, AWWA, ASTM and USP Standards.

STAGE 2 Catalytic High Activity Carbon (HAC)

Catalytic HAC is an outstanding material for successfully reducing free chlorine from water supplies. The end product is clean, fresh water with no objectionable taste or odor characteristics. Additionally, HAC can be used for filtering waters having a wide range of pH levels and will impart a high "polish" to the filtered water.

Our HAC is NSF/ANSI Certified under NSF Standard 42

STAGE 3 Filter-Ag Plus®

Filter-Ag Plus® is an all-natural, environmentally safe media with a large surface area and micro-porous structure. It is a highly efficient filter media for the reduction of suspended matter down to the 5 micron or less range and is thus, extremely effective at removing water turbidity.

Our Filter-Ag Plus® NSF/ANSI Certified under NSF Standard 61.

STAGE 4 High Density Garnet Filter Media

Garnet is a high hardness, high density granular filtration media that can effectively filter down to the 10-20 micron range. It also provides an excellent support bed for the other filtration media.

Our High Density Garnet meets AWWA specifications. It is also classified by Underwriters Laboratories Inc.® in accordance with ANSI/NSF Standard 61.

STAGE 5 ION Inline Water Conditioner

Our patented HALO ION Inline Water Conditioner uses multi-reversing polarity permanent magnetic fields to alter the molecular structure of positively and negatively charged ions of dissolved calcium and magnesium. This causes the hard water minerals that would normally cause lime scale to stay suspended in the water instead of attacking pipes and appliances. The conditioned water also helps prevent corrosion due to scale and will dissolve existing scale over time.

With over 45 years of track record, the HALO ION Inline Water Conditioner is a proven, eco-friendly hard water treatment solution.

WHOLE HOUSE WATER TREATMENT SYSTEM

SMART TANK



SAVES WATER
30% LESS BACKWASH

THE VORTECH

Uses up to 30% less water during backwash over standard tanks. The self cleaning Vortech distributor prevents clogging. The high flow design maximizes high efficiency valves

SMART VALVE



CUSTOMIZED AUTOMATED EFFICIENT

The Clack® head is renowned for its reliability and programming. It arrives to you home ready for use and retains it's programming even in power outages.

SMART MEDIA



PREMIUM GRANULAR ACTIVATED CARBON ACID WASHED

Premium grade, NSF-certified, acid washed carbon media is used for its high degree of micro-porosity. Just one gram of activated carbon has a surface area in excess of 5000 sq ft.

SMART MEDIA



HAC HIGHLY ACTIVATED GRANULAR CARBON

High activity carbon is used for its outstanding ability to reducing contaminants like chloramines, hydrogen sulfate, chlorine and other VOC's & turbidity.

SMART MEDIA



FILTER AG PLUS 5 MICRON SEDIMENT QUARTZ GARNET 10-20 MICRON SEDIMENT

Filter-AG Plus® is an all natural media, highly efficient in the reduction suspended sediment, down to 5 microns. Quartz garnet is a hard dense media that can filter sediment down to 10-20 microns.

HALO ION



MAINTENANCE FREE HARD WATER CONTROL

The HALO ION magnetic water conditioner is the 5th stage in the HALO 5 system. It effectively controls hard water without chemicals to prevent and remove scale maintenance free.



WQA Tested & Certified
According to NSF/ANSI 61
NSF/ANSI 572 for lead free compliance

HALO 5

MAINTENANCE FREE WHOLE HOUSE WATER
FILTRATION & CONDITIONING

System Capacities

HALO 5 - 1"
1,000,000 Gallons
For a family of four this system
will last about 10 years

HALO 5 - 1.5"
2,000,000 Gallons
For a family of six this system
will last over 10 years

HALO 5 - 1.25"
1,500,000 Gallons
For a family of six this system
will last about 10 years

HALO 5 - 2"
3,000,000 Gallons
For a family of six this system
will last over 10 years

System Specifications

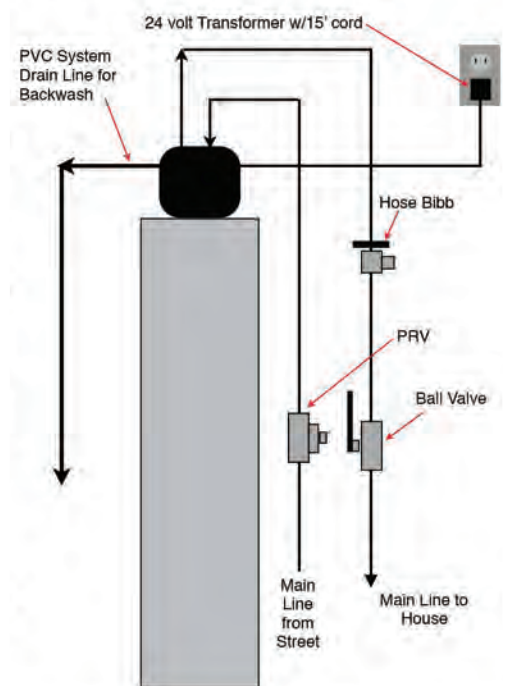
System	Tank Size	Wt. (lbs.)	H. (in.)	W. (in.)	Depth (in.)	Inlet/Outlet (in.)	Model #
HALO 5 - 1"	10" x 54"	93	61	10	10	1"	H5-100
HALO 5 - 1.25"	12" x 52"	121	59	12	12	1.25"	H5-125
HALO 5 - 1.5"	13" x 54"	148	73	13	13	1.5"	H5-150
HALO 5 - 2"	16" x 65"	246	74	16	16	2.0"	H5-200

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Intended for use treatment of cold water only. Do not exceed 80 psi. Intended for residential use only.

NOTE: The HALO 5 Stage Systems are intended for treatment of potable water provided by municipal water providers. While the HALO 5 Series system may be effective for treatment of Well Water it is vital that a well water quality analysis be provided for review in order to ensure that optimum results can be realized.

Installation at a Glance

1. Plumb Inlet/Outlet to system at Main.
2. Plumb system drain line.
3. Flush system with Hose Bibb (20 mins.)
4. Force Regeneration (10 mins.)
5. Flush system with Hose Bibb (20 mins.)
6. Force Regeneration (10 mins.)
7. Final Flush with Hose Bibb (20 mins.)
8. Open system to household.
9. Test for Chlorine at Hose Bibb and Kitchen Sink and show customer results.



SPECIAL CONSIDERATIONS: If a hot water recirculating loop is present, an additional ION unit is required for optimum results. When water is continuously circulated and not used, scale can form over an extended period of time. Placing an additional ION on the recirculation loop will ensure that the water is passing through the ION renewing the conditioning effect with each revolution. Over 20 grains will produce a noticeable amount of aragonite. Call HALO Water Systems for details.

Congratulations on the purchase of your new HALO 5 Water Conditioning and Filtration System!! You are now the owner of one of the most advanced, eco-friendly water treatment systems available! The following information and list of “tips” was designed to help you better understand and maximize the effectiveness of this advanced water treatment technology.

Understanding and Appreciating Aragonite:

In appliances, on dishes and on counter tops where water is frequently left standing, you may begin to notice a powdered talc-like substance collecting. This powder is called Aragonite. Aragonite is a harmless, electrically neutral and non-corrosive form of calcite that is produced during the magnetic conditioning portion of the HALO 5 water treatment process. Prior to passing through your HALO 5 magnetic conditioner, this Aragonite is actually the minerals that would have caused lime scale build-up and corrosion in your pipes and appliances. The Aragonite is a byproduct formed after hard water passes through your HALO 5's magnetic conditioner and it is easily wiped off most surfaces. You should consider Aragonite as welcome proof that your HALO 5 Water System is operating effectively.

Simple Actions to Help Minimize Aragonite on Dishes.

- Use ONLY powdered dishwasher soap.
- CUT DOWN ON SOAP. Use only 1 Tablespoon TOTAL divided ½ into each dispenser cup. Too much soap may cause spotting, etching, filming and/or glazing.
- Dishwasher hot water temperature should be at least 140° and hotter is better so, prior to starting your dishwasher, you should run the HOT water at the kitchen sink until it begins to flow hot. This ensures hot water for the dishwasher's wash cycle.
- Use (as directed) a rinse agent such as “Lemi Shine”. Available at most Target, WalMart stores and Amazon.com.
- Turn off the dishwasher heating element and allow the dishes to cool dry. Open the dishwasher door slightly to allow steam to escape as soon as the wash cycle is complete.
- Always store detergent in a dry place as moisture adversely affects dish detergent contributing to spotting. Purchasing small boxes of detergent, may make it easier to keep fresh product on hand. Check the expiration date for freshness because dish detergent actually does expire!

Tips to Remove & Prevent Lime Scale Film on:

Dishes, glasses, small appliances & plumbing fixtures that have been subjected to untreated water prior to the installation of your HALO 5 System; ***these items likely have soap scum and lime scale build up.***

- Place affected dishes into dishwasher and run a complete wash cycle substituting 1 cup of white vinegar for the soap. Some glasses can become permanently etched if too much soap has previously been used.
- Residue and mineral build up can be cleaned from small appliances such as coffee makers by using a 2-1 solution of hot water and white vinegar.
- Lime Scale and hard water deposits which have built-up on faucets and plumbing fixtures prior to the installation of your new HALO 5 water treatment system should be carefully removed with the help of products such as “CLR” or “Lime Away”. “Lemi Shine” has also been reported to help remove mineral build up from dishwashers as well as from bathtubs, sinks and toilets.

Maintaining Your Bath & Shower Enclosures:

- Use “CLR”, “X-14” or “Lemi Shine” as directed to remove any existing mineral build-up from your bath tub, shower walls, shower basin and glass doors.
- Use a squeegee or wipe down shower doors and walls after each use to prevent spots caused by soap scum.
- Applying “Turtle Wax” or a good liquid car wax on clear glass doors, chrome, brass and dark colored shower tile will help to promote water sheeting and discourage soap scum build-up.
- **HALO 5** treated water contains almost no chlorine. This water is more enjoyable to drink and to bathe in, but chlorine does help prevent mildew from developing. Proper ventilation and consistently wiping down the bath tub and shower enclosure after each use will keep your bathing area free of mildew.

Toilet Maintenance & Cleaning:

- Adding bleach to toilet bowl will help prevent mildew and bacteria. This is particularly important for newer low-flush toilets that do not fully flush away deposits.
- Infrequently used toilets, such as those located in vacation homes or in guest bathrooms, may be subject to rapid mineral build-up due to inactivity. Use a product such as “CLR” to remove this mineral build-up.

What is the difference between a HALO 5 and a water softener?

The differences are profound. It is not an apples to apples comparison. While many softeners are comparably or priced higher than a HALO 5, traditional water softeners are a more expensive less effective way to address hard water scale and corrosion and actually add more contaminants into household water supplies and the environment. Most water hardness treatment systems use ion exchange with salt as a regenerate which can have an adverse effect on our health and the environment. While ion exchange systems substitute salt for calcium, the HALO ION In-line Water Conditioner transforms dissolved calcium for crystallized calcium. Calcium in its crystallized state is rendered harmless and free from its hard properties and scaling effects. For a detailed comparison please see the side by side comparison of "HALO 5 vs. Traditional Softeners".

What is the maintenance schedule on a HALO 5?

The HALO 5 IS MAINTENANCE FREE.

NOTE: In a home with 4 people, the water heater will need to be flushed (of dissolved solids) 3-4 months after the installation of the HALO 5, or any other HALO solution that includes an HALO ION water conditioner. This is because the HALO ION water conditioner will dissolve existing scale formation and inhibit hard water corrosion.

How much water is used during the backwash cycle?

On the HALO 5 Stage system, they come preprogrammed to backwash once a week. This is a 10 minute program that includes 6 minutes of fluidizing the media bed and 4 minutes of compaction.

On the H5-100 (HALO 5 Stage - 1") System - Approx. 3.5 gallons per minute. NOTE: The water that is discharged during the backwash cycle is actually cleaner than the water that came in from the street. It is safe for plants, can be run into a flower bed or a tree well.

How does the HALO 5 clean itself with no filters?

It automatically backwashes once a week. This is not so much to clean the system but really to reset the media bed and prevent "channeling". "Channeling" is water passing through the least resistant path of the granular bed avoiding contact time with the carbon resulting in lower effectiveness.

What are the commercial applications for HALO?

Food service equipment.
Heating and boiler applications.
Cooling and cooling tower applications.
Swimming pool, spa and water feature applications.
Agriculture and irrigation applications.

What separates the HALO 5 from other systems?

Quality of Components = Reliability
We use 2 of the best carbon media on the market. GAC is great for the removal of chlorine and chloramine. Centaur works great with free chlorine. The combination of the two will give you the best results 365 days a year.
Quality of design = Efficiency
We use an Empress tank with a Vortech distributor head which reduces backwash rate by 30% or more, and pressure loss properties are improved by upwards of 40%. **WQA tested and approved. NSF 61 Lead free certification.** Integrated Solution (Filters and Conditions) that is effective for the family, home and planet.
Quality of Collateral Materials
Scope of Applications
Variety of Price Points
Quality of Sales Support
Quality of Technical Support
Quality of Customer Service
Only Available to Licensed Contractors.

How do we know when the HALO 5 is at its end of life?

On the H5-100 unit, after approximately 1 million gallons of usage. If the treated water tests positive for chlorine.

What are the Warranties?

HALO 5 - Limited lifetime warranty
Lifetime on the tank (up to one replacement)
25 years on the HALO ION
5 years on the control head
10 years on the media (up to one tank replacement)
HALO ION - 25 year limited warranty
HALO Mini Series - 1 year on housings. 25 years on HALO ION

What is the difference between a HALO 5 and bottled water?

HALO retains the minerals in the water.
HALO is available throughout the entire home for bathing cooking and drinking water.
HALO does NOT contain Xenoestrogens or BPA commonly found in bottled water.
HALO water cost about 1/1000th as much as bottled water.

How does the HALO ION In-line water conditioner work?

The patented system, when installed in a water supply line, controls the formation of scale and corrosion deposits without the use of chemicals. Water passing through the alternating magnetic fields causes most minerals (iron excepted) to stay suspended in the water so they cannot form a hard brittle scale. The entire process bonds calcium ions to each other rather than to your plumbing and fixtures.

Water passes, under pressure, and with minimal turbulence, through alternating magnetic lines of force perpendicular to the waters flow direction. This causes a polarizing effect upon non-polar constituents in the water, and provides energy of activation level necessary to cause the dissolve of calcium Carbonate (calcite) CaCO_3 within the water to recombine and form "aragonite" (an amorphous powdery form) when the solubility limit is reached. Unlike crystalline CaCO_3 , aragonite can easily remain suspended in the water stream rather than attaching to system walls as "scale".

The presence of aragonite in the water provides an additional benefit in terms of corrosion protection. A thin film of soft aragonite, which normally forms as a result of long term magnetic treatment, actually prevents free oxygen within the water from attacking metallic components through which the water travels, thus preventing corrosion.

What is your product used for?

The HALO ION In-line Water Conditioner has several uses. It is primarily used in commercial applications where scale prevention is required, such as water heater pretreatment or reverse osmosis pretreatment. It is also used for residential applications where the HALO ION is desired for its taste and functional use.

What is so special about HALO ION In-line Water conditioner?

The HALO ION In-line Water Conditioner technology has been in use since 1964. It is the most widely used, recognized and reliable maintenance free system available today. In addition, local bans on soft water equipment or wastewater discharge permits **are not** applicable with this system.

Why is it important to not use chemicals or sodium in treating water?

1. You are not spending money on them. 2. You are not ingesting them in part or in whole. 3. You are not adding to the pollution of water supplies and the precious environment.

If the HALO ION does not use chemicals or sodium, what does it use?

Just water! The water is altered through a multi-stage magnetic process. There is nothing to add.

Will the water test soft after the system is installed?

NO. Remember that the calcium is still present, but in an altered suspended state. A test for hardness in reality is a test for the presence of the minerals calcium and magnesium, which have naturally hard properties. The HALO ION In-line Water Conditioner renders them harmless.

Programming Quick Reference



1. Set Time of Day.

- Press "SET HOUR" button once and then use the ▲ or ▼ buttons to select the appropriate current hour of the day.
Please note: the hour is AM unless PM is indicated by a ► pointing toward the PM on the right side of the display screen.
- Press "SET HOUR" again to exit once the hour is correct.

2. Select System Regeneration Settings.

- Press "SET HOUR" and the ▲ button simultaneously for 3 seconds until the digital display begins to flash. This screen will allow you to set the time for regeneration of the HALO unit. **2 A.M.** is the factory default setting.
- If you see anything other than **2 A.M.**, press the ▲ and ▼ buttons to adjust the time for regeneration. Again, **2 A.M.** is recommended.
- Press "SET HOUR" to accept the setting and to advance to the next step in the programming process. You will see 4 days to regeneration.

3. Set Day's to backwash by using the UP or DOWN buttons. 7 Days are recommended unless otherwise requested by homeowner.

- For 1 person set 11 day's.
- For 2-3 people set 9 day's.
- For 4 or more set 7 day's.

4. Press "SET HOUR" to accept the setting and to advance to the next step in the programming process. You will return to the Current time of day.

5. Verify System Regeneration Program "P7"

- Press "SET HOUR" and the ▲ button simultaneously for 3 seconds until you see the time for regeneration Screen (the number 2 should display) with the flashing arrow pointing toward "regen" at the bottom left corner of the screen.

6. Confirm Day To Regeneration Cycle.

- You should now see the number "99" with a blinking arrow next to "Days to Regen" in the bottom right hand corner of the screen (*this indicates days to regeneration*).
- If you see the number "7" instead of the number "99" press the ▲ or ▼ button until the number "99" appears and then Press "SET HOUR" to accept this setting (*the number 60 will appear with flashing arrows*).
- Press "SET HOUR" again (*dP will flash along with an arrow pointing to Regen Hour in the bottom left hand corner of the screen*).
- Press "SET HOUR" button once more to return to the main screen.

- Press "SET HOUR" and the ▲ button simultaneously for another 3 seconds until you see the program screen. **This screen should display "P7"**.

- If this screen does **NOT** display "P7", Press the ▲ or ▼ buttons until P7 is selected (P7 provides a 10 minute system regeneration consisting of a 6 minute backwash and a 4 minute rinse).

- Press "SET HOUR" to accept this setting (a blinking arrow with dashes will appear pointing to Min. Fill).

- Press "SET HOUR" button again.

7. Main Screen Will Now Display Time of Day.

- Press the ▲ or ▼ buttons to toggle between "Time of Day" and "Days Until Next System Regeneration".
- Confirm the next system regeneration is scheduled for number of days you selected in step 3.

8. Programming Is Now Complete!

9. It Is Now Essential You Forced 2 System Regeneration.

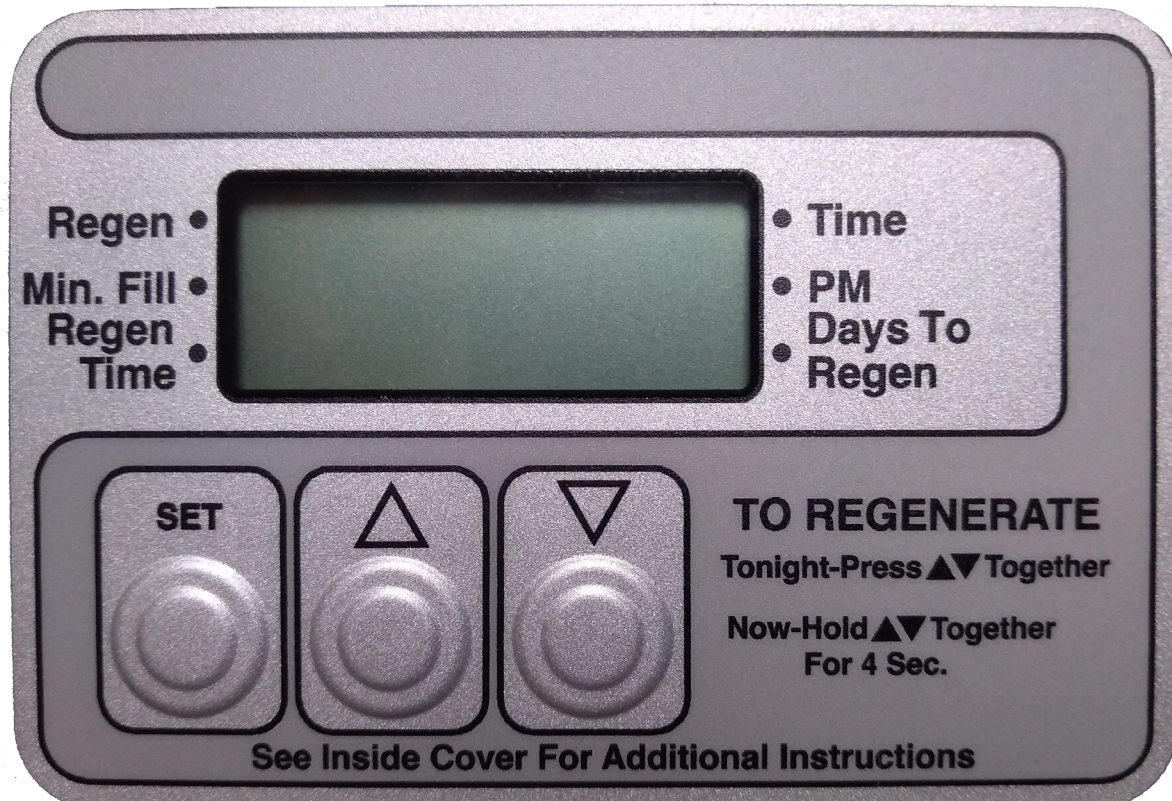
Now run water from each fixture in the home for 2 minutes to completely flush the system.

10. If water remains cloudy and won't run clear, Repeat steps 6 & 7

11. Flush the fixtures one more time and thoroughly clean any carbon residue from each fixture.

12. If steps 6 - 7 are not accomplished, it is likely the customer will complain about water quality and gray water.

Please Call 1-800-591-0538 For Technical Support or Visit
www.halowater.com





LIMITED PRODUCT WARRANTY

HALO Water System's (HALO 5 Series) point of entry residential water filters and conditioners (up to 13" diameter I tanks) are warranted to the original owner at the original residential installation location to be free from defects in materials and workmanship from the date of manufacture as specified. If a HALO 5 System was purchased from a 3rd party, liquidator or by any means other than an authorized licensed wholesale distributor, the warranty is void.

CONDITIONS OF WARRANTY

- The system must be installed and maintained according to local codes and secondarily in accordance with manufacturer's recommendations. Contact HALO if there are any conflicts between local codes and our printed instructions.
- The system must be maintained with HALO approved replacement components.
- Failures resulting from fire, freezing, neglect, accident, alteration, abuse, improper installation or acts of nature are not covered.
- Water pressure must be regulated between 40 to 80 pounds per square inch working or static pressure. Pressure exceeding 80 pounds per square inch (psi) working or static pressure voids all warranties.
- Pressures exceeding 80 pounds per square inch voids warranty on tank.
- Internal water temperature exceeding 120° F voids warranty on tank.
- Influent chlorine must not exceed 1 mg/L.
- HALO does not warrant to perform, pay for, or finance any repairs and/or installations. The customer must contact the HALO representative prior to any repairs or replacements
- If a recirculation pump is in use at the location of the HALO system, install a secondary HALO ion conditioner on each recirculating loop present in order to ensure expected results.
- The system must be properly installed by a licensed contractor.
- Proper precautions must be taken when installing the system near objects that can be damaged by water. HALO Water Systems, LLC accepts no responsibility for water damage or loss of property due to water damage.

HALO WARRANTY COMMITMENTS

1. HALO will provide one (1) replacement tank for any tank that fails due to a manufacturing defect.
2. HALO warrants that components for the equipment will be available for the lifetime of the system.
3. HALO will provide comparable components of our selection to replace any obsolete items.
4. HALO will, within ten years from date of install repair or replace warranted defective control valve parts at no charge.
5. HALO will provide one (1) replacement carbon media package at no charge (except freight and handling) for 10 years from the date of installation due to media failure. (Chlorine only)
6. This warranty gives you specific legal rights that may vary from state to state.

OBTAINING WARRANTY SERVICE

Prior to any Warranty actions, including replacement or removal of parts and/or equipment, Service Tech must put system on by-pass and immediately contact HALO to provide model number, serial number and photos of system and problem site.

All returns must be accompanied by a "Return Merchandise Authorization" (RMA) Form along with all defective/warranted part(s) including a copy of this warranty, original purchase receipt, and the RMA number. HALO will at our option, provide replacement parts, no more than two parts at no cost, except freight, handling charges. You can contact HALO at (800) 591-0538 or email us at service@halowater.com.

LIMITATIONS AND EXCLUSIONS

This warranty is exclusive and in lieu of any other warranty expressed or implied, including but not not limited to, any implied warranty of merchantability of fitness for a particular purpose. HALO shall not be liable for any loss or incidental or consequential damages resulting from the misuse or inability to use this equipment by the buyer or any user. This warranty is non-transferable and is valid only on residential applications for the treatment of municipal water supplies.

Warranty is Void if:

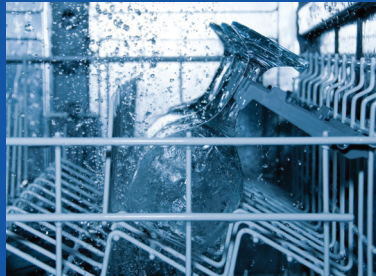
1. You are not the original purchaser (unless you are listed as the owner when activating the warranty)
2. You did not activate the warranty online at www.halowater.com
3. The HALO product was not installed by a licensed contractor
4. The product was not sold to you by a licensed contractor
5. If the HALO 5 System was purchased from a 3rd party, liquidator or by any means other than an authorized licensed wholesale distributor, the warranty is void.

HOMEOWNERS NEED TO
KNOW WHY THEY...

GOTTA HAVE A



HALO FOR YOUR HAPPINESS.



**HALO TO KEEP YOUR
APPLIANCES RUNNING RIGHT.**



HALO FOR YOUR HEALTH.



HALO TO FEEL HEAVENLY.



**HALO TO KEEP YOUR
FIXTURES LOOKING FABULOUS.**



**HALO TO KEEP FABRICS
FRESH.**

HALOWATER.COM