

SAY *hello* TO

HALO
WATER SYSTEMS



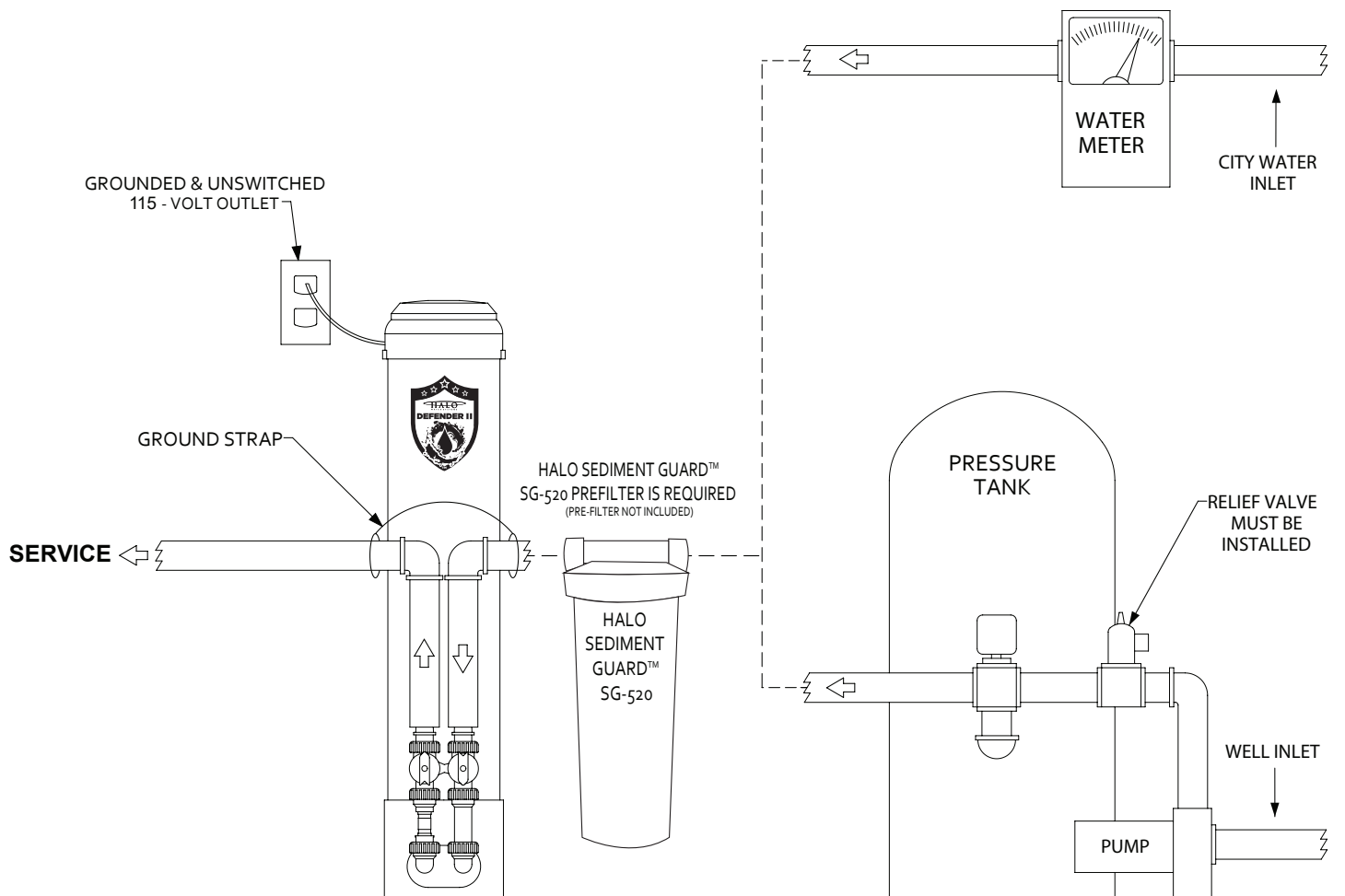
Certified by IAPMO R&T to NSF/ANSI 53 for Material Safety, Structural Integrity, and for the reduction of claims specified on the Performance Data Sheet.

INSTALLATION AND OPERATION MANUAL

WHOLE HOUSE CERTIFIED FILTRATION, CYST, LEAD, PFOA & PFOS



WHERE TO INSTALL



NOTES

- Select a proper location for installation. The unit must be installed before the main water line connects to the water heater, near where it connects to your home.
- Please allow 3 feet of open space above the system for replacement cartridges.
- Before installing, turn off the main source of water. Turn on a faucet inside of your home to relieve water pressure by draining it from lines.
- Installing Ground: To maintain an electrical ground in metal plumbing of a home's cold water piping (such as a copper plumbing system), install a ground strap or jumper wiring.
- Plumbing the filtration system assembly: the inlet and outlet of the filtration housing are 1" threaded MNPT connections.
- No use of extra lubricants, unapproved sealants, and use of tools. Use of tools other than hand tighten only parts voids warranty.
- System to be supplied only with cold water.
- **3-AAA batteries not included.**
- Meter assembly preset to 100,000 gallons.
- A HALO Sediment Guard™ SG-520 is required as a prefilter to the system to help prevent sediment clogging of the DEFENDER II filter cartridge.

The system and installation must comply with state and local laws and regulations.

PARTS DIAGRAM

SHOWN IN DIAGRAM

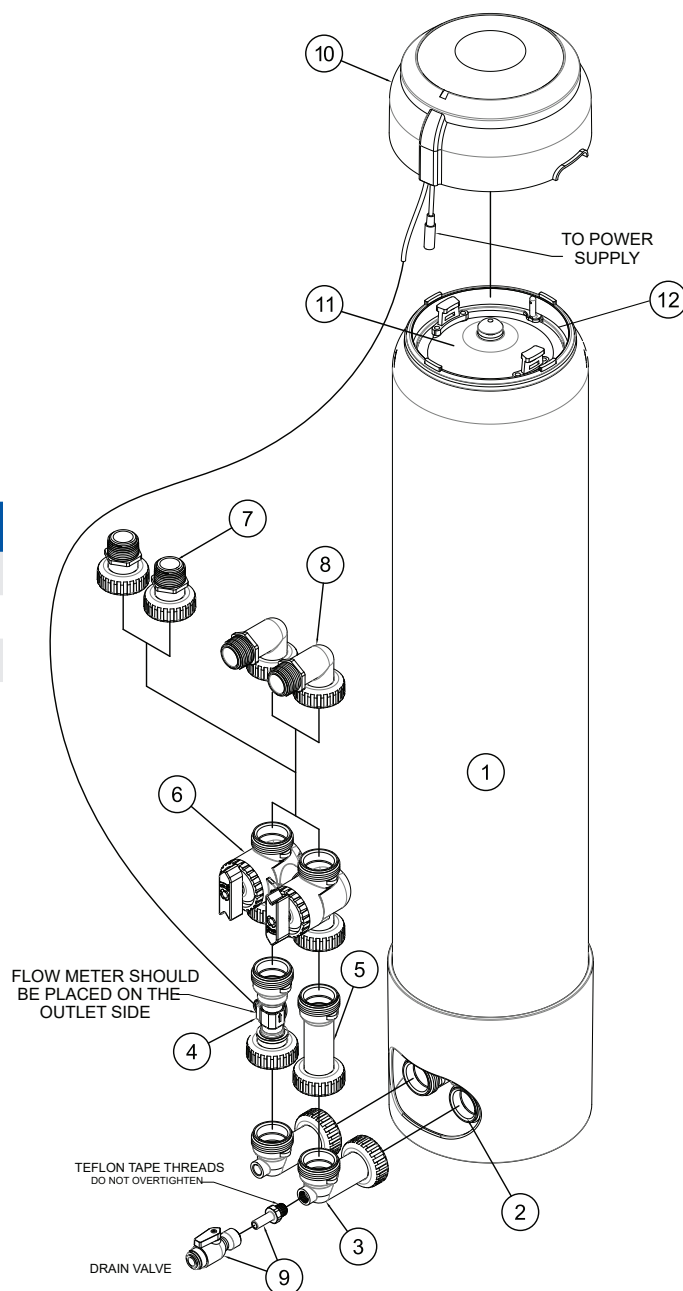
PART IDENTIFICATION	PART #
1. Defender II Filtration System / Housing	H-DFR2-HSG
2. In/Out Head for 1.050" Riser Pipe	H-DFR2-HEAD
3. 90 Degree Vertical Elbow With/without Machined Drain Port	H-DFR2-VELBOW
4. Flow Meter Assembly With Cord	H-DFR2-METER
5. Meter Spacer Assembly	H-DFR2-SPACER
6. Bypass Manifold	H-DFR2-BYPASS
7. 1" MNPT Straight Connector	H-DFR2-STCON
8. 1" MNPT 90 Degree Elbow Connector	H-DFR2-ELCON
9. 3/8" PEX Drain Valve Kit Assembly With Shut-off	H-DFR2-DRAIN
10. HALO Smart Monitor	H-DFR2-MONITOR
11. Top Cap	H-DFR2-TOPCAP
12. Snap Ring	H-DFR2-SNAPRING

NOT SHOWN IN DIAGRAM

PART IDENTIFICATION	PART #
Electronics Board	H-DFR2-BOARD
H-DFR2 Power Supply	H-DFR2-PWRSUPPLY
H-DFR2 10' Power Extender	H-DFR2-PWREXT
0.5-Micron Filter Cartridge	H-DFR2-PFLD

Operating Conditions	
Iron	.3 Parts per Million (Max)
Manganese	.05 Parts per Million (Max)
Hydrogen Sulfide	0.0 Parts per Million (Max)
pH	6.5-8.5
Sediment	Halo SG-520 Pre-filter Required
Environment	Indoor Only
Power Requirement	120V 60Hz
Temperature	34F Min / 120F Max
Pressure	20PSI Min / 125PSI Max

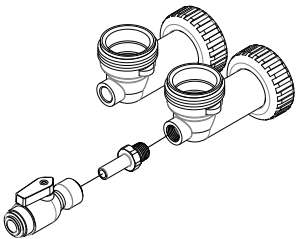
SCAN TO
ACTIVATE
WARRANTY





ASSEMBLY INSTRUCTIONS

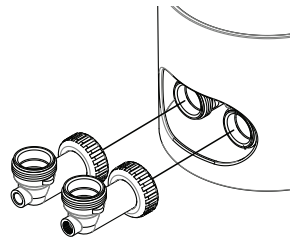
STEP 1: TANK ASSEMBLY (SEE DIAGRAM ON PREVIOUS PAGE)



STEP 1A

Wrap #9 (Drain Valve Assembly) with three clockwise wraps of Teflon® tape. Install/thread #9 (Drain Valve Assembly) into #3.

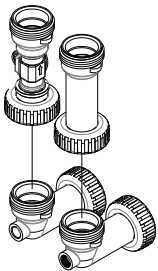
HAND TIGHTEN ONLY.



STEP 1B

Connect #3 to #2 on the bottom of Filter Housing #1. The threaded Drain Valve Assembly should be on the inlet side (right side) at the bottom of the tank.

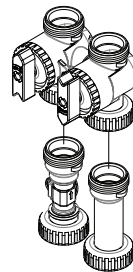
HAND TIGHTEN ONLY.



STEP 1C

Connect #4 to #3; Flow Meter Assembly should be placed on the Outlet Side (left side) at the bottom of the tank. Connect #5 Meter Spacer Assembly to #3.

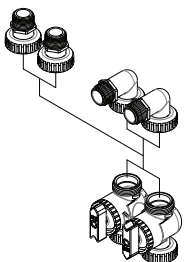
HAND TIGHTEN ONLY.



STEP 1D

Connect #6 Manifold to #4 and #5.

HAND TIGHTEN ONLY.



STEP 1E

Use either part #7 or #8 for connecting your plumbing to the system.

HAND TIGHTEN ONLY.

STEP 1F

Connect 3/8" PEX plumbing to Drain Valve Assembly #9
(NOT PROVIDED).

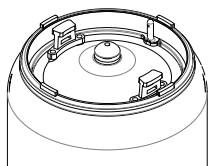
STEP 1G

Install 3-AAA batteries in HALO Smart Monitor; connect to power supply.



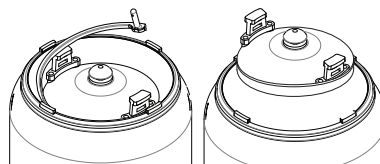
INSTALLING THE CARTRIDGE

STEP 2: REMOVING THE TOP CAP



STEP 2A

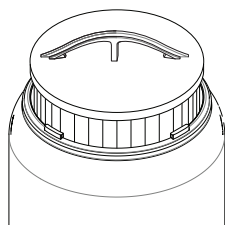
Unseat the snap ring by pushing down on the top cap with both hands. Remove the ring by taking the handle and pulling inward, then upward; the ring should slide completely out.



STEP 2B

Remove the snap ring on the top of the tank, then remove the top cap from the housing assembly. Lift up on the handles to pull the cap out of the top of the tank.

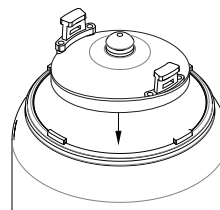
STEP 3: FILTER PREPARATION



STEP 3

Remove the filter cartridge from the packaging, then place it into the tank with the O-ring down. Align the cartridge to the bottom center opening. *(Note: There's a small opening in the bottom center of the tank to help you align the cartridge.)* Press down on the filter cartridge so the O-ring moves down into place.

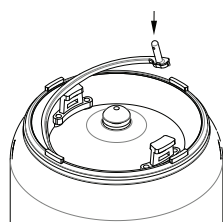
STEP 4A: REATTACH THE TOP CAP



STEP 4A

Place the top cap back into its original location.

STEP 4B: REATTACH THE TOP CAP



STEP 4B

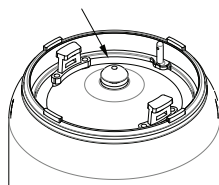
Reattach the snap ring, then pull up on the cap to lock in the O-rings.

STEP 5A: FINAL CHECK

STEP 5A

Allow enough time for glue to dry, if PVC glue fittings are used on initial system install, according to instructions provided by the manufacturer.

STEP 5B: FINAL CHECK



STEP 5B

Slowly turn the water back on. Press down on the red button located in the middle of the cap. This depressurizes the system and relieves it of air. Keep the button pressed down as the water comes back on. **DO NOT** stop pushing the button until all air pressure is released and water comes out of the depressurization button.

STEP 5C

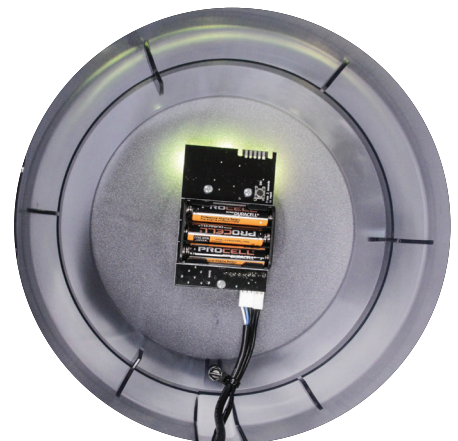
Release the button, then check the system for leaks. Run water for 10 minutes through the system to make sure it's fully flushed out.



REPLACING THE CARTRIDGE

1. Turn off the water supply to the system by shutting off the inlet and outlet valves on the bypass.
2. Install a 3/8" PEX tubing hose to the provided drain valve assembly that connects to the inlet side of the filtration system. Run the hose to a floor drain or bucket, so that all water can be drained from the system during filter change outs.
3. Remove monitor cap on the top of the vessel. Replace the 3-AAA batteries with new batteries. Push and hold the reset button on the metered board for 3 seconds to reset the totalizer. When the totalizer is reset, the LED lights will flash green 3 times to confirm that it is reset.
4. Depressurize the system by pushing down on the red depressurization button on the top cap of the system. Keep the button pushed down until all the air or water pressure is completely released.
5. Push down the top cap with both hands to unseat the retaining ring.
6. Remove the retaining ring by carefully grasping the handle and pulling inward, then upward. The retaining ring should slide completely out of the groove.
7. Open the drain valve assembly to drain all water from the system.
8. Remove the top cap of the system by lifting up on the top handles and remove the old filter. *Clean inside of system if needed.*
(NOTE that filter adapter (yellow/white in color) may come loose from bottom connection when removing filter, and should be reinstalled into the bottom connection for proper installation of filter.)
9. Look down into the tank assembly and locate the small opening centered in the bottom of the tank.
10. Remove packaging from the new filter and place the new cartridge into the tank with the double O-ring facing down.
11. Position the cartridge so that it is aligned with the bottom center opening.
12. Press down on the cartridge so that the double O-ring seal moves into place within the bottom center opening.
13. Reposition the top cap and press it down into its original location.
14. Reattach the top tank snap ring, then pull up on the top cap to seat O-rings.
15. Close the drain valve assembly.
16. Turn the water supply on by opening the inlet and outlet valves on the bypass.
17. Relieve the system of air in the tank as the system fills with water by pushing down on the red depressurization button on the top cap of the system. Keep the button pushed down until all the air pressure is completely released, and water comes out of the red depressurization button.
18. Release the red depressurization button.
19. Return the HALO Smart Monitor to the top of the system.
20. Check for leaks.
21. Flush the new cartridge for 10 minutes by opening a down stream cold water faucet.
22. During flush, confirm green LED lights are flashing with flowing water. If lights are not flashing green, go back to step 3.

HALO Smart Monitor AND LED LIGHTS





LED REPLACEMENT NOTIFICATIONS

EASY TO UNDERSTAND LED REPLACEMENT NOTIFICATIONS

The HALO Smart Monitor System monitors water volume usage and provides a visual LED color-coded notification to the homeowner, letting them know when to replace their filter. If Smart Monitor batteries are dead or absent the center light displays blue.

**GREEN:
FILTER
GOOD**



**YELLOW:
CHANGE
SOON**

*(10% OF
FILTER LIFE
REMAINING)*



**RED:
CHANGE
NOW**



EASY FILTER REPLACEMENTS WITH NO TOOLS REQUIRED

Defender II uses state-of-the-art snap-ring technology to eliminate the need for cumbersome tools. Technicians can easily replace the filter in the Defender II system by following a few simple steps.

1. PRESS THE RED PRESSURE RELIEF VALVE TO UNSEAT THE RING



2. REMOVE SNAP RING



3. LIFT TOP CAP



NOTES

- Meter preset at 100,000 gallons; see page 10 for adjusting presets.
- Three AAA batteries not included for battery back-up. Change annually with filter change-out.



CONTENTS OF BOX

Meter Spacer Assembly



**1" MNPT Connectors
(2- Straight, 2- 90°)**



Filter Housing



Bypass Manifold



Flow Meter Assembly



Vertical Elbows (2)



HALO Smart Monitor



Filter Cartridge



Drain Valve Assembly Kit



Top Cap



SPECIFICATIONS

Defender II Name and Part Number	Size and Micron Rating	Rated Capacity and Flow Rate	Peak Flow and % Reduction of Lead and PFOA/PFOS	Chlorine/Chloramine Taste and Odor Reduction Capacity*	Pressure Drop Spec
Defender II System and Defender II Filter					
Defender II System <i>H-DFR2</i>	11" x 40" / 0.5 Microns	Lead Reduction and PFOA/PFOS 93,250 gallons @ 4.21 GPM (352,989 Liters @ 15.9 lpm) @ 99.62% lead reduction @ 97.9% PFOA/PFOS reduction	7.46 GPM (28.24 lpm) @ 99.62% lead reduction >88,000 gallons at 7.46 GPM* (333,116 Liters @ 28.24 lpm)	>300,000 gallons @ 15 GPM (1,135,623 Liters @ 56.8 lpm) with greater than 90% reduction, estimated capacity using 2 ppm of free chlorine >150,000 gallons @ 8 GPM (567,812 Liters @ 30.3 lpm) with greater than 85% reduction, estimated using 3 ppm of chloramine	9 psid @ 4.21 GPM

Replacement Cartridge Filters—0.5 Micron High Capacity Carbon Block // PART NUMBER: H-DFR2-PFLD

OTHER SPECIFICATIONS

Minimum Operating Temperature: 34 °F / 1 °C

Maximum Operating Temperature: 120 °F / 50 °C

Minimum Operating Pressure: 20 psig / 1.38 bar

Maximum Operating Pressure: 125 psig / 8.6 bar

Electrical Requirements: Grounded and unswitched 115 V outlet and 3-AAA Batteries

Filter Replacement Operating Instructions: New cartridges must be flushed for a minimum of 10 minutes prior to use. System and , installation, and disposal of used filter cartridge to comply with state and local laws and regulations. **Do not** use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts. Manufactured from NSF/ANSI standard 61 and California Prop 65 Compliant certified coconut shell carbon and raw materials. Spent adsorption media may not be regenerated and reused

Substance	Influent Challenge Concentration (MG/L)	Maximum Permissible Product Water Concentration (MG/L) or Minimum % Reduction	NSF/ANSI Standard
Lead	0.15 +/- 10%	0.005	53
Cyst	Minimum 50,000/L	99.95%	53
PFOA/PFOS	.0015 +/- 10%	0.00002	53

WARNINGS

If this or any other system is installed in a metal (conductive) plumbing system, i.e. copper or galvanized metal, the plastic components of the system will interrupt the continuity of the plumbing system. As a result any errant electricity from improperly grounded appliances downstream or potential galvanic activity in the plumbing system can no longer ground through contiguous metal plumbing. Some homes may have been built in accordance with building codes, which actually encouraged the grounding of electrical appliances through the plumbing system. Consequently, the installation of bypass plumbing consisting of the same material as the existing plumbing, or a grounded "jumper wire" bridging the equipment and reestablishing the contiguous conductive nature of the plumbing system must be installed prior to your systems use.

DO NOT USE extra lubricants, unapproved sealants and tools to tighten hand tightened only parts. Use of tools other than hand tighten only parts voids warranty. Testing was performed under standard laboratory conditions; actual performance may vary. Flush the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water. If any part of this system becomes damaged, stop using immediately and contact a service technician. Test filtered water intermittently to ensure adequate quality for use.

PERFORMANCE

This system conforms to NSF/ANSI 53 for the specific performance claims verified and substantiated by test data. Performance claims are based on independent lab results and manufacturer's internal test data*. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Performance claims are based on a complete system, including a filter, housing, and connection to a pressurized water source. This filter must be operated according to the system's specifications in order to deliver the claimed performance. It is essential to follow operational, maintenance, and filter replacement requirements, as directed for each application, for this filter and system to perform correctly. Read the Manufacturer's Performance Data Sheet accompanying the system and change the filter as suggested. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.

*Claims are not performance tested by IAPMO or NSF. Performance claims are based on independent laboratory and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and application. Results may vary.

HALO SMART MONITOR NOTIFIER

The overall purpose of this device is to receive a water meter input and totalize the amount of water that passes through the meter. When there is flow through the water meter, the lights flash at a rate that increases with the water flow rate. When the total amount of water flowed reaches within 10% of a pre-selected amount the totalizer turns yellow. When the total amount reaches the pre-selected amount the totalizer turns red.

POWER

This unit is to be powered using +12VDC. The power input is a wire tail with a 2.5 mm center positive barrel jack.

The totalizer has a battery backup. The battery backup uses 3 AAA size batteries. The battery holder is a part of the valve assembly and can be accessed by removing the lid to the cartridge filter. Battery life will vary based on water flow when running on battery mode and type of batteries used. With high continuous flow, the batteries are expected to last approximately less than 7 days. With no flow the batteries are expected to last approximately 6 months.

OPERATION

HALO Smart Monitor

The HALO Smart Monitor keeps track of the gallons using a water meter. The water meter is a turbine style meter with a magnetic pickup that sends a pulse to the monitor's electronics for every revolution of the meter turbine. The meter turbine is removable for inspection and cleaning. Make sure water is bypassed or turned off when removing the meter for maintenance. The meter has a three pin plug that connects to the electronic monitor's board.

LEDs

Normal colors for the LEDs are green, yellow and red, which are dependent on the totalizer value.

- **Green:** 0–90% of the programmed totalizer maximum
- **Yellow:** 90–100% of the programmed totalizer maximum
- **Red:** Greater than 100% of the programmed totalizer maximum

If there is flow the LEDs should alternately turn off in the following pattern: 1-2-3-2 (repeat). The frequency that they turn off is linearly correspondent to the flow rate being received from the water meter. For every 1 revolution from the meter, the LED pattern should be incremented to turn off the next LED. If there are no pulse edges for 2 seconds, all the LEDs will turn on solid.

If the battery is determined to be low, the middle LED (#2) will turn blue. The battery is checked only once an hour to minimize the battery drain from checking the voltage.

Pushbutton

The pushbutton allows for the filter life to be reset as well as the maximum value to be programmed.

To reset the filter life back to 100% after a new filter has been installed, while looking at the top, the user should press and hold the button on the electronics board for three seconds. When the filter life is reset, the LEDs should flash green three times to confirm that it is reset. "GREEN" colored LEDs (LED1) represent 100,000s and "BLUE" colored LEDs (LED2) represent 10,000s.

The push button allows the unit to be programmed for the total gallons limit. It can be programmed between the range of 10,000 gals.–990,000 gals.

To program the maximum value using the push button: press and hold the button while powering up the board (either battery power or 12VDC power). Once the board is powered LED 1 (right LED) will represent 100,000's place and should be green. LED 2 (middle LED) will represent 10,000's place and should be blue. Both LEDs will be flashing at 1 Hz, the number of flashes that corresponds to the current setting for that digit placeholder. To indicate the start of the flash sequence both LEDs should flash white for 1 second, then flash the appropriate number of times. Once both are done wait 2 seconds and repeat. Refer to the figures below for an example.



FIGURE 1

To change the maximum gallons setting, press and hold the button for 1 second. LED 1 should turn solid green, LED 2 should turn off and LED 3 should flash green the number of times that corresponds to the current setting. Pressing the button for less than 1 second would increment the value, rolling over from 9 to 0. Figure 2 is an example of the LEDs in this mode.

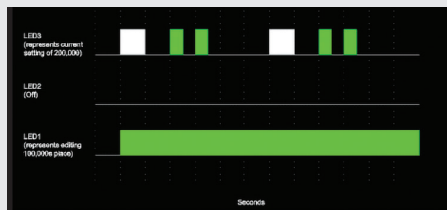


FIGURE 2

To save the setting for the 100,000s place and begin editing the 10,000s place press and hold the button for greater than 1 second. LED 1 should turn off, LED 2 should turn solid blue, and LED 3 should flash blue the number of times that corresponds to the current setting. Again, pressing the button for less than 1 second would increment the value, rolling over from 9 to 0. Figure 3 is an example of the LEDs in this mode.

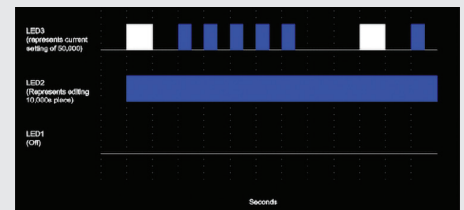


FIGURE 3

To save the setting for the 10,000s place, exit editing mode and return to the mode in Figure 1 press and hold the button for greater than 1 second. This will also save the current setting into internal EEPROM memory.

Power Monitoring and Battery Mode

The board monitors the 12Vdc power and the battery power. If there is a power failure and no batteries are installed, the current filter life value will be saved to non-volatile memory. When power is resumed, the filter life count down will resume from when it had previously lost power.

The LEDs should shut off during battery mode. If the filter life is to the yellow or red state or if the battery voltage gets low, the right LED will flash on in the appropriate colors for 0.125 seconds every 30 seconds.

WARRANTY

HALO Defender II and Filter—Limited Warranty

- If a DEFENDER II filtration system was purchased from a 3rd party, liquidator or by any means other than an authorized licensed wholesale distributor, the warranty is void.
- HALO Water Systems warrants its line of Defender II filtration systems to be free of defects in material and workmanship for a period of ten years on the tank, and one year on Defender II filter cartridges and electronics, from the date of installation. This warranty is extended to original purchaser at the original residential installation location by authorized OEM customers. Use of this product constitutes buyer's acceptance of this Limited Liability.
- This warranty does not cover any equipment purchased for use in applications in which the product is not suited. It is the responsibility of the buyer to determine if a product is suitable for a particular application.
- Our obligations under this warranty are limited to the repair or replacement (at HALO Water System's sole discretion) of the failed parts of the water treatment unit manufactured by HALO Water Systems, and we assume no liability whatsoever for direct, indirect, incidental, consequential, special, general or other damages.
- 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. In areas of high risk of water damage, the use of a water protection devices such as a water pan and leak detector is recommended.
- We assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us.
- We assume no liability and extend no warranties, expressed or implied, for the use of this product with a non-potable water source or a water source which does not meet the conditions for use described in the owner's guide or performance data sheet for the product.
- The warranty provided herein applies, only when used within the product specifications and service life, from the date of installation, beyond which HALO Water Systems is absolved of any and all liability for any use of the product. There are no other warranties, either of merchantability or fitness, either expressed or implied. Some states do not allow exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, or country to country. To know what your legal rights are, consult your local or state consumer affairs office, your state's Attorney General, or your national equivalent for international users.

THIS WARRANTY EXCLUDES THE FOLLOWING:

- Damage caused by improper installation, operation or care.
- Damage caused by chemical attack, environment, accident, fire, flood, freezing, act of God, misuse, misapplication, neglect, oxidizing agents (such as chlorine, ozone, chloramines and other related components), alteration, installation or operation contrary to the printed instructions, or by the use of accessories or components which do not meet HALO Water System's specifications, including the use of a replacement element not manufactured or supplied by HALO Water Systems. Refer to the specifications section in the Installation and Operation manual for approved application parameters.
- Modification or alteration.
- Rubber type parts and normal wear items, e.g. O-rings, etc.
- Any costs of labor or expenses expended in the removal and/or installation of unit, or any surrounding device.
- Altering or removing the HALO Water Systems information label.
- Use of non-HALO Water Systems approved cartridges, filters, or replacement parts with the appropriate systems or vessels.
- Non-use of supported piping for plumbing connections to in/out connections.
- Service trips to installation site to train user on how to use product.
- Improper installation.
- System damage caused by vacuum, moving or unsupported plumbing is not covered under warranty. Proper vacuum relief valves, plumbing supports and flexible connectors are required where these conditions pose a risk to system.
- Failure of product if it is abused, misused, or used for other than the intended purpose.
- Replacement of water filter cartridge due to water pressure that is outside the specified operating range or due to excessive sediment in water supply; or replacement with non-authorized replacement cartridge.
- Incidental or consequential damage caused by possible defects with any other equipment not covered by this warranty.

SPECIAL NOTICES:

- Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after installing filter or system.
- Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Any system this filter is installed in must be maintained according to manufacturer's instructions, including replacement of filter cartridges.
- Contaminants or other substances removed or reduced by this water filter cartridge are not necessarily in your water.
- Note that while testing was performed under standard laboratory conditions, actual performance may vary. Systems using these filters must be installed and operated in accordance with manufacturer's recommended procedures and guidelines.
- 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.
- Water pressure must be regulated between 20 to 125 pounds per square inch working or static pressure. Pressure exceeding 125 pounds per square inch (psi) working or static pressure voids all warranties.
- If installed without a current well water report being submitted for recommendation to HALO Water Systems all warranties are void.
- Internal water temperature must be within 34° F and 120° F. Do not allow system to freeze. Operating system outside of specified temperature range voids all warranty.
- The system must be properly installed by a licensed contractor.

LIMITED LIABILITY: HALO Water Systems makes no warranties of any kind, expressed or implied, statutory or otherwise, and expressly disclaims all warranties of every kind, concerning the product, including, without limitation, warranties of merchantability and fitness for a particular purpose, except that this product should be capable of performing as described in this product's data sheet. HALO Water System's obligation shall be limited solely to the replacement of the product proven defective, in HALO Water System's sole discretion. Determination of suitability of this product for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. Use of this product constitutes Buyer's acceptance of this Limited Liability.

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 DEFENDER II system was purchased from a 3rd party, liquidator or by any means other than an authorized licensed wholesale distributor.

Service under this warranty is to be provided by the distributor/installer who sold the unit to the user. If the distributor is unable to provide warranty service, contact: HALO Water Systems, 800-591-0538, service@halowater.com

A Returned Merchandise Authorization (RMA) number must be received from the above office and placed on all shipments to and in correspondence with HALO Water Systems.

PLEASE BE PREPARED WITH THE FOLLOWING INFORMATION:

#1 Model number and serial number. **#2** Date of installation. **#3** Name of installer. **#4** Nature of problem. **#5** Your address and contact information.



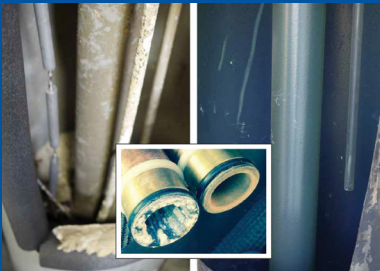
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-INSTALLATION GUIDELINES ARE INTENDED FOR THE USE OF LICENSED CONTRACTORS ONLY-

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