



Installation, Operation and Maintenance Manual

Warning

You are required to thoroughly read all installation instructions and product instructions and product safety information before beginning the installation of this product. **FAILURE TO COMPLY WITH PROPER INSTALLATION AND MAINTENANCE INSTRUCTIONS COULD RESULT IN HALO DAMAGE, PERSONAL INJURY AND/OR DEATH.** HALO is not responsible for damages resulting from improper installation and/or maintenance.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Local building or plumbing codes may require modifications to the information provided. You are required to consult the local building and plumbing codes prior to installation. If this information is not consistent with local building or plumbing codes, the local codes should be followed.

Save manual for future reference





OVERVIEW

- This guide provides step by step procedures for installing and programming HALO Iron Sulfur Removal Systems.
- Once installed, the HALO Iron Sulfur Removal Systems will require no maintenance and will automatically perform single system regeneration for ten minutes every three days.
- The HALO Iron Sulfur Removal Systems will arrive completely assembled with all media in the tank and with the control valve already attached.
- Please carefully read this guide prior to beginning the installation process.
- All steps provided herein are for typical installations only. If you require additional plumbing, drain or electrical work to properly install the HALO unit, please contact an appropriate tradesman to properly prepare the site.
- Typical installation should take no more than a few hours.
- Be sure to gather any necessary supplies prior to beginning installation.
- HALO Iron Sulfur Removal Systems can safely handle a water pressure range of **25-80 psi**. For best operation, an operating range of **60 psi** is recommended.
- **Do not locate any HALO Unit where it or its connections (including drain lines) will ever be subjected to temperatures under 34°F**

PRE-INSTALLATION

- The HALO unit should be located in a protected, dry, level and non-freezing area, such as a garage, laundry room. In some areas with moderate climates the unit can be installed outdoors *and can also be buried* provided a minimum 6" clearance is maintained below the control valve.
- The drain outlet has a $\frac{3}{4}$ " threaded fitting. We recommend a matching size PVC drain fitting be used. Please always follow local plumbing codes when installing the drain line. The drain line is pressurized so it can be run slightly uphill if necessary.
- The unit requires power from a standard 2-prong, 120V, grounded outlet that is not controlled by a switch. The HALO control valve includes a 15' power cord, but you can use an extension cord if an outlet is not nearby. Please follow any local building/safety codes if you need to use an extension cord.
- Make a list of all the plumbing fittings you will need to completely install the system to make it ready for operation. Brass reducers may be necessary.
- Assemble all tools needed to install the system and start your installation.
- Now go ahead, open the box and get started!

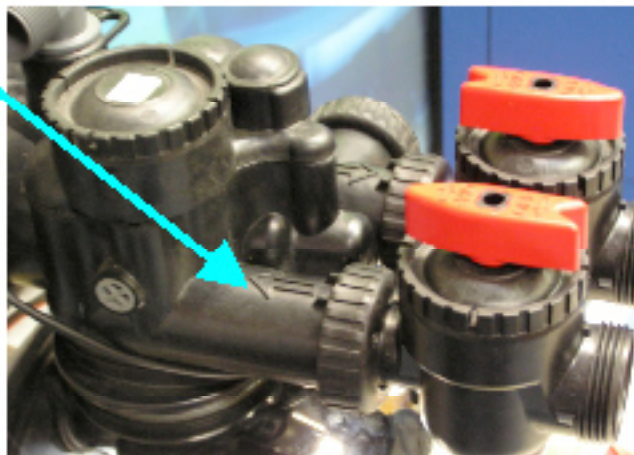
SYSTEM INSTALLATION

1. Locate the following items provided in the HALO box:

- The plastic bag containing the Bypass Assemblies, Brass Adapters and plastic fittings.
- Each of the following items need to be put aside because you will not need them during installation but you will need to leave them with homeowner when installation is complete:
 - The HALO Warranty
 - The Valve Installation and Operation Manual
 - The HALO Water Tips Brochure



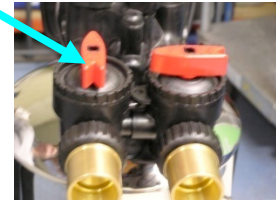
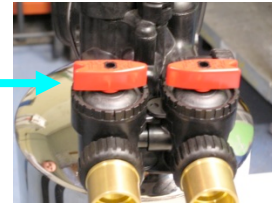
2. Determine HALO installation location. *NOTE* As you look at the rear of the HALO control valve, the inlet water line will always enter the hole on the LEFT SIDE of the bypass valve assembly. The control valve assembly has an arrow indicating water flow direction on top of the assembly.



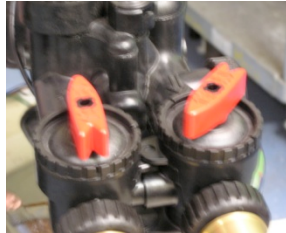
3. Turn off the main water valve and drain water from the main line.
4. Cut and remove a section of the main incoming water line entering the home where the system is to be installed to ensure the system is treating all water entering the home (both hot and cold water). If a pressure regulator is on the system, install the HALO downstream of the regulator. Allow this line to drain thoroughly.
5. You need to install the ball valve and hose bib on the outlet side of the unit see page 4 section 6.
6. Solder adapters in place on inlet and outlet piping.

CHARGING THE SYSTEM

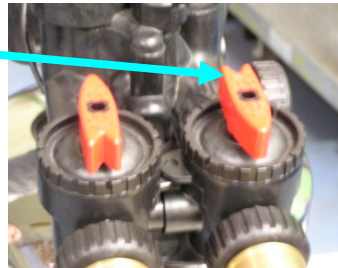
1. Keep the bypass valve in the "Bypass" position.
2. Make sure the water main is turned on.
3. Close the new ball valve. Open the intake side of the bypass valve to allow the HALO tank to fill with water.
This will take less than five minutes.



4. Gradually open the outlet side of the bypass valve halfway and check for leaks.



5. If free, outlet valve.



everything is leak-free, completely open the side of the bypass

6. Opened new Hose Bib and allow the water to run ten minutes or until the water becomes consistently clear.



7. Close the Hose Bib when the water runs clear. Now force a **Regeneration**. **Simultaneously** presses the up and down arrow button at the same time until the Regeneration cycle begins. Water will run 10 minutes. When regeneration is complete repeat 6&7 one more time.
8. **HALO installation is now complete and it is time to program the HALO system!**



QUICK REFERENCE PROGRAMMING GUIDE H-IS

If the head on your HALO System does not look like the image to the right, you need to remove the weatherproof cover over it.

1. Set the time of day

Hold the **set** button for 5 seconds, then use the **▲** or **▼** buttons to select the current hour.

Note: The hour is AM unless PM is indicated by the **▶** pointing at the PM on the right side of the display screen.

Press the **set** button again to adjust the minutes.

2. Select system regeneration settings

Hold the **set** button and the **▲** simultaneously for 3 seconds, until the digital display flashes. Adjust the time for regeneration to a time when minimal water is being used. Press the **set** button again to accept the setting and advance to the next step in the programming process.

3. Days between regeneration cycle

Set regeneration to occur every **3 days**

Press the **set** button to accept the setting and advance to the next step in the programming process. You will return to the home screen.

4. Verify system regeneration cycle

Hold the **set** button and the **▲** button simultaneously for 3 seconds. Let go and then hold the **set** button and the **▲** button simultaneously again for 3 seconds **P7** should be displayed. If this screen does not display **P7**, press the **▲** or **▼** buttons until **P7** is selected. Press **set** to accept this setting. Press **set** again. You should now see the number **99** with a blinking arrow next to **days to regen** on the bottom right of the display screen. If you see the number **7** instead of **99** press the **▲** or **▼** button until the number **99** appears, then press **set**, **dP** will flash **12 hr** will be displayed, press **set** again to return to the main screen.



5. Main screen will now display time

Press the **▲** or **▼** button to toggle between time of day and days until next regeneration. Confirm the system regeneration is scheduled for the number of days you selected in step 3.

Programming is now completed!

E1 or E2 error codes

If the screen displays an E1 or E2 error code, hold **set** and **▼** buttons until you hear the gear recenter, then release buttons.

IMPORTANT

It is now essential the you force 2 regenerations.

Next run water from each fixture in the home for **2 minutes** to completely flush the system. If water remains cloudy and repeat the process and force 2 regenerations, then run water again for **2 minutes** from every fixture.

If forced regenerations are not performed customer will likely complain about water quality.

HOMEOWNERS NEED TO
KNOW WHY THEY...

GOTTA HAVE A

HALO
WATER SYSTEMS



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.**

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