Green Water Systems

OWNERS MANUAL

Includes: Installation Procedures, Warranties, Service &

Operation Guidelines.

GS Elite
GS PRO
GS1 1 Cu. Ft. S. C. S.
GS1.5 1 Cu. Ft. S. C. S.
GS2 2 Cu. Ft. S. C. S.

7000 VALVE SXT

PLEASE READ ENTIRE MANUAL BEFORE ATTEMPTING INSTALLATION. OBTAIN ALL MATERIALS AND TOOLS NEEDED BEFORE STARTING INSTALLTION.

INTRODUCTION

Congratulations, you have purchased one of the highest quality whole house filtration systems available today. The system is completely automatic and will contribute to better and longer service of all your water using appliances. There is very little maintenance and your whole house water filter will give you many years of trouble free use. This system has been engineered with the finest quality components and materials. You'll soon be enjoying better water quality and the personal health benefits that come from filtered water use.

The carbon media will need to be replaced periodically. Generally 3 years pending water conditions. Replacement is determined by a chlorine test or simply the taste and odor of chlorine returning to the water you drink.

SPECIFICATIONS

Water Efficiency (with low water, use piston)	
Regeneration Length	Approximately 20-40 minutes
Water Pressure	40 min. – 100 max PSI (85 PSI day time pressure)
Service Flow Rate/Maximum Flow Rate	
Temperature	Air: 40-140 Degrees F Water: 40-110 Degrees F
By-Pass Valve Size	1" to 1 ¼"
Drain Line Size	½" (under 20' run and lower than 10' vertical at 60 PSI) 3/4" (over 20' run or over 10' high or over 7 gpm backwash rates)
Electrical	Continuous 110 volt, 60 cycles / 12 volt / 24 volt
System Dimensions: Mineral Tank	9" X 48",10" X 54", 12" X 52", 16" X 53" (DIA X HIGH)
Approximate Weight	100/180 LBS.

WARNINGS

1. Do not let unit freeze.
2. Hook up to cold water supply ONLY.
3. Check existing plumbing and repair prior to installation of water processor.
4. Improper installation may void warranty, read manual complete before installation.
5. Do not lay unit down on its side, drop, or set on sharp protrusions.
6. Avoid setting unit in direct sunlight or outside, if possible.

INSTALLATION INSPECTION

Is Your Home Plumbed?

Your home is pre-plumbed for a water filter system if you have a loop in the garage or laundry room. Typically, there will be 110 volt outlet within 6 feet of the loop and a ½" drain line stubbed out of the wall. If your home is pre-plumbed, skip now to Step 1 of Installation Procedures.

CAUTION: BEFORE STARTING SYSTEM UP, CHECK WATER PROCESSOR DRAIN LINE TO INSURE THAT IT WILL DRAIN PROPERLY.

If Your Home is Not Pre-Plumbed

If your home is not pre-plumbed then we recommend calling for professional installation. If you are attempting to install the system yourself you must determine where to locate the water filtration system.

The best location depends on several questions:

1. How will you get the water from the water main to the filter?
2. Where will you run the drain line?
3. Where is a 110V outlet within 6 feet of the softener?
4. Where can the water filter sit on a firm, fairly level concrete floor or slab?

If you've determined the location of your unit, taking into account the above factors, and determined what materials and tools will be needed for installation, you are now ready to move onto Step 1 of the Installation Procedures.

INSTALLATION PROCEDURES

STEP 1 – CONNECT TO WATER SUPPLY

A. Shut off main water supply to the house. Open the highest faucet in the house and then the lowest (if there is water in the pipes, you can't solder.) Cut the plumbing at your loop or main water line. Wait until all water drains out of the plumbing.
B. Connect your incoming cold water supply to the inlet side of the by-pass valve (designated by a directional flow arrow). The bypass valve comes standard with 1" ports.
   WARNING: <u>Be sure you do not connect incoming waterflow to the outlet side of the water filters.</u> This can damage the unit and your household plumbing.

C. Connect the outgoing side of the by-pass valve back to the other side of your loop or to your main water line feeding your home.

STEP 2 – CONNECT TO DRAIN

Typical Drain Line Runs To: A floor drain, washing machine drain, sanitary sewer line with p-trap, a sink drain, or a sump. CAUTION: Check with all local plumbing codes to insure proper installation in your area. An air gap may be required.

A. Slide a ½" tube over ridged drain nipple. It should not come off with a firm pull. Depends on type of tubing used, you may want to tighten drain line down on nipple with hose clamp.
B. If home is pre-plumbed, connect ½" drain line from water softener to ½" drain stubbed out of wall. CAUTION: Be sure the drain line discharges properly into a drain to prevent flooding.
C. If home is NOT pre-plumbed, run drain line to an appropriate drain. Drain line can not be run over 50 feet without increasing drain line to ¾" and the drain line can not be run with a vertical rise of more than 10 feet above the water softener.

STEP 3 – PLUG SYSTEM TO OUTLET

A. The electrical cord is 6' long and can be plugged into any 110 volt outlet.
B. Plug the system in and you are ready to go.

STEP 4 – SET TIME ON VALVE

1. Locate the up and down buttons on the face of the control valve.
2. Simple push the up button to set the time forward, or the down button to set the time backward. On the right of the display there is a PM indicator dot. Holding the button in will advance the time more quickly. It will start slow at first, and then increase in speed the longer you continue to hold the button in.
3. Release the buttons when you have set the control to the current time of day.

STEP 5 – FINAL START UP PROCEDURE

A. After installation is completed and checked for leaks, rotate the bypass handles to the bypass position (see bypass valve diagram).
B. Fully open a cold water faucet (recommended bathtub faucet).
C. Allow water to run until clear to rid pipes of debris, which may have occurred during installation.
D. The system is now ready for testing.
    1. Press and hold the extra cycle button for three seconds until the drive motor starts. Wait until the motor stops and the display reads “Backwash.” The backwash time will begin to count down.
    2. Open the inlet handle of the bypass valve very slightly allowing water to fill the tank slowly in order to expel air. CAUTION: If water flows too rapidly, there will be a loss of media out of the drain.
    3. When the water is flowing steadily to the drain without the presence of air, press the extra cycle button to advance the control.
    4. Fully open the inlet bypass valve handle. (Allow five minutes for the media bed to settle.
    5. Press the extra cycle button again to advance the control to the home position. (Allow water to run to drain for 2-3 minutes. Control will transfer and the display will read backwash or rinse depending on the program used. If backwash is displayed press the REGEN button to advance the control to the rinse position. Allow water to run to drain until clear.
    6. Last, fully open bypass handles to normal operation.

(Picture insert here)

TROUBLE SHOOTING GUIDE

Some basic areas to check before calling for service:

1. Is the system plugged in?
2. Is it a continuous current outlet?
3. Has a fuse or circuit breaker blown?
4. Is bypass valve in the service position?
5. Is the drain line kink free?

PROBLEM	CAUSE	SOLUTION
1. Fails to regenerate.	A. Electricity interrupted to system. B. Timer motor defective. C. Power failure.	A. Assure continuous current outlet, fuses ok, plug system in. B. Replace timer motor. C. Reset time of day.
2. Loss of water pressure.	A. Iron build up in water processor. B. Inlet of control plugged.	A. Clean control and add resin cleaner. Increase regeneration frequently. B. Remove piston and clean control of foreign material.
3. Valve cycles continuously.	A. Faulty timer mechanism.	A. Replace timer motor.
4. Drain flows continuously.	A. Internal control leak. B. Timer motor stopped or jammed. C. Control valve jammed in brine or backwash position.	A. Replace seals, spacers, or pistons. B. Replace time motor. C. Replace seals, spacers, or pistons.

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