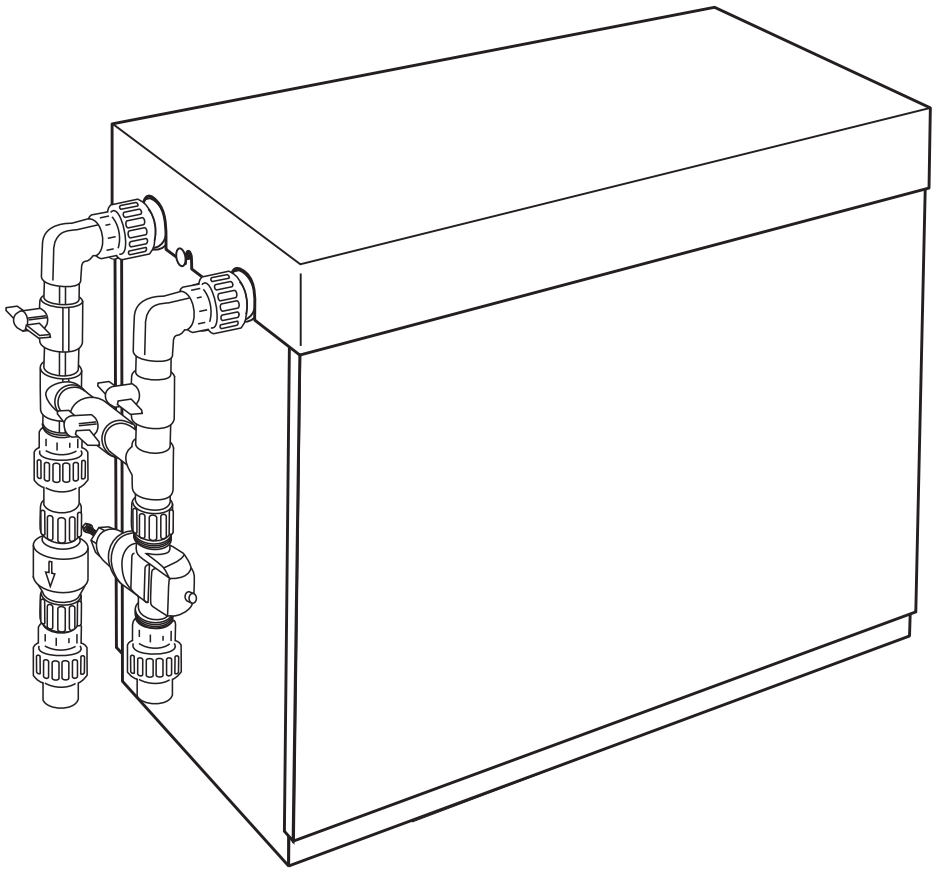
SpringHouse

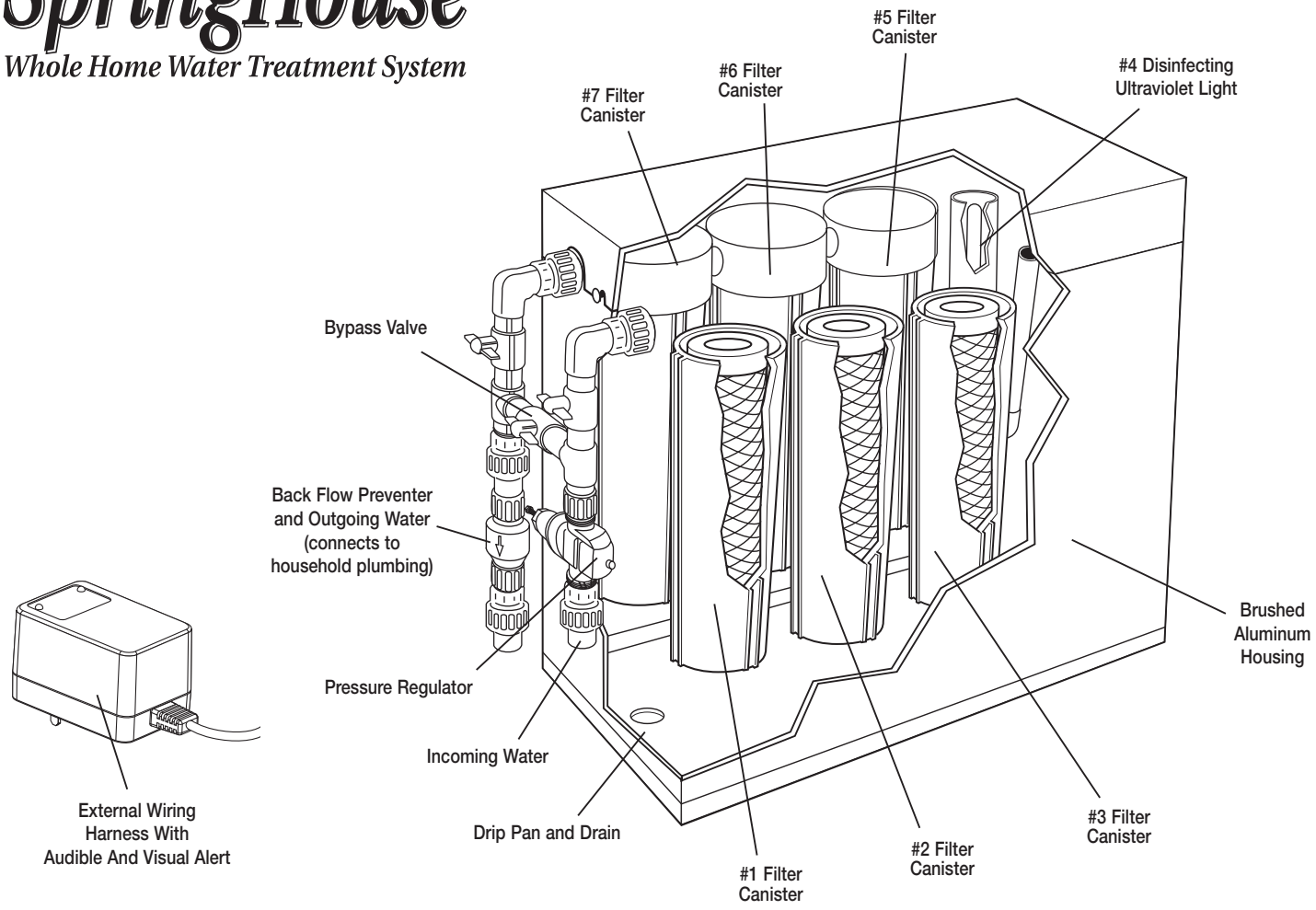
Whole Home Water Treatment System



Owner's Manual

SpringHouse

Whole Home Water Treatment System



PLEASE READ BEFORE INSTALLATION!

Congratulations on your decision to deliver the finest quality water available to every tap in your home or business. The following is important information that will help you get the most out of your SpringHouse system and ensure the Warranty and operation of your SpringHouse for years to come.

SpringHouse's unique combination of filtration and UV treatment improves taste and reduces odor throughout your plumbing system. In addition this premier system reduces or eliminates sediments, various minerals, chemicals, microorganisms, and bacteria, as well as decreases scale buildup in pipes and fixtures.

The UV system has both audible and visual alarm system is to ensure your UV system is functioning properly at all times.

SpringHouse can be installed indoors or outdoors, but must be protected from freezing, excessive heat, and direct sunlight. Failure to do so will void the warranty. The unit is also equipped with a drip pan and drain system for attic installation. The influent and effluent will accept 1 inch pipe and is plumbed throughout with 1 inch "schedule 80" PVC.

Be sure that there is at least 74" of room, floor to ceiling, in the location where your SpringHouse is to be installed. Otherwise you will not be able to install and/or remove the UV lamp and the quartz sleeve.

NOTE: Installation must be done by a qualified plumber in accordance with local codes. Failure to do so can result in damage not covered by your SpringHouse warranty.

SpringHouse's unique design allows for easy maintenance and operation. The System Bypass function allows your water source to be bypassed for servicing, or in situations that call for the use of large quantities of water where this level of treatment is not required, such as pool filling and lawn watering, though using SpringHouse water for these functions is certainly an option if you choose.

NOTE: This product is not intended to purify non-drinkable sources of water. Do not use where the water is micro-biologically unsafe, or if water is of unknown quality. SpringHouse is not designed to significantly reduce Total Dissolved Solids (TDS) or hardness. SpringHouse is not designed to remove greater than 2ppm Iron, 1ppm Manganese, or 0.5ppm Hydrogen Sulfide.

CONTENTS:

Please record the serial number of your SpringHouse:

Serial # _____

Please record the serial number of your optional SpringHouse Remote Alarm (If applicable):

Serial # _____

Please record the name and phone of your SpringHouse Independent Business Owner:

Name _____

Phone _____

SPRINGHOUSE SPECIFICATIONS

Maximum Flow Rate . . . . . 8 G.P.M. @ 60 psi
Dimensions . . . . . 41"L x 16"W x 40"H
Inlet/Outlet Pipe . . . . . 1-inch schedule 80 PVC
Operating Temperature Range . . . . . 35 to 100 degrees Fahrenheit
Inlet Pressure Range . . . . . 25 to 60 psi*
Operating Supply Pressure Range . . . . . 25 to 250 psi
Warranty . . . . . 2 Years parts and labor**
Micron Rating . . . . . 1 micron (absolute)

Audible and visual alarm to monitor UV lamp operation

Back flow Preventer

All filter canisters are FDA compliant.

* Pressure Regulator Preset to 60 psi. Supplying pressures below 40 psi will result in a noticeable reduction in flow through the SpringHouse.
** See page 15 for more information on your Warranty.

PARTS ORDERING INFORMATION

Replacement filter cartridges, filter media, and parts are available by contacting your EcoQuest SpringHouse Independent Business Owner located on this page. If you do not have their information, please call 1.800.989.2299 for ordering information.

BALLAST SPECIFICATIONS

Input Voltage (Nominal)	120V/60Hz 0.7A (45w max.)
Maximum Allowable Humidity	90%
Ballast Power Factor	0.61
Total Harmonic Distortion	82.2%
Operating Frequency	36-40Khz
Max Lamp Current (Within 10 Sec.)	425mA
Lamp Current Crest Factor	4.38
Max Internal Temperature, Thermal Protection	95°C/120°F
Max Surface Temperature	65°C/150°F
Secondary Open Circuit Protection (Lamp Dead Shutdown)	Yes/Alarm
Secondary Short Circuit Protection	Yes
Power On LED	Yes
Lamp On LED	Yes
Audible Alarm (Lamp Fault)	75db
Wire Harness (600V/105°C UL)	10'-4 Wire
Assembly	Fully Encapsulated

UNPACKING INSTRUCTIONS/PREINSTALLATION/INSPECTION

1. Remove outer carton and packaging materials.
2. Inspect filter canisters for cracks and make sure they are securely tightened.
3. Remove UV Chamber Plug Cap (located atop UV chamber) by pulling upwards.
4. Remove UV Chamber retainer fitting by turning counter clockwise.
5. Locate the shipping tube containing the UV Lamp, glass lamp sleeve, spring, nylon washer, and rubber O-ring.
   ⚠ Caution, handle UV lamp and sleeve carefully to avoid breakage. ⚠
6. Lubricate the top inch of the outside of the lamp sleeve with either vegetable oil or some type of ingestible lubricant to allow O-ring and washer to slide. **Failure to do so may cause sleeve to break.**
7. Slide spring into lamp sleeve and first place O-ring, then nylon washer, over the open end of lamp sleeve. Position them 3/8"-1/2" from top. Insert glass lamp sleeve (open end up) into UV chamber.
8. Replace retainer fitting and tighten while holding glass sleeve with finger.
9. Insert lamp slowly, with plug connectors up through opening in retainer fitting.
10. Connect bulb to plug cap (See Figure 5*) and push cap down over retainer fitting.

** plug connector configuration may vary.*

PROCESS DESCRIPTION (REFER TO ILLUSTRATION BELOW)

Municipal Source Water	
Step 1:	5-Micron, dual-gradient particulate filter
Step 2:	Carbon Block filter
Step 3:	Carbon Block filter
Step 4:	High intensity UV chamber
Step 5:	MAZ filter
Step 6:	Anti-scalent/sequestering agent (polyphosphate)*
Step 7:	1-micron filter (absolute) particulate filter

On Site Well Source Water	
Step 1:	5-Micron, dual-gradient particulate filter
Step 2:	MAZ filter
Step 3:	Carbon Block filter
Step 4:	High intensity UV chamber
Step 5:	KDF Media filter
Step 6:	Anti-scalent/sequestering agent (polyphosphate)*
Step 7:	1-micron filter (absolute) particulate filter

*** Specialty filters are available for treatment of unique contaminants. These are normally installed in place of the sequestering agent in canister #6. Ask your Independent Business Owner for details.**

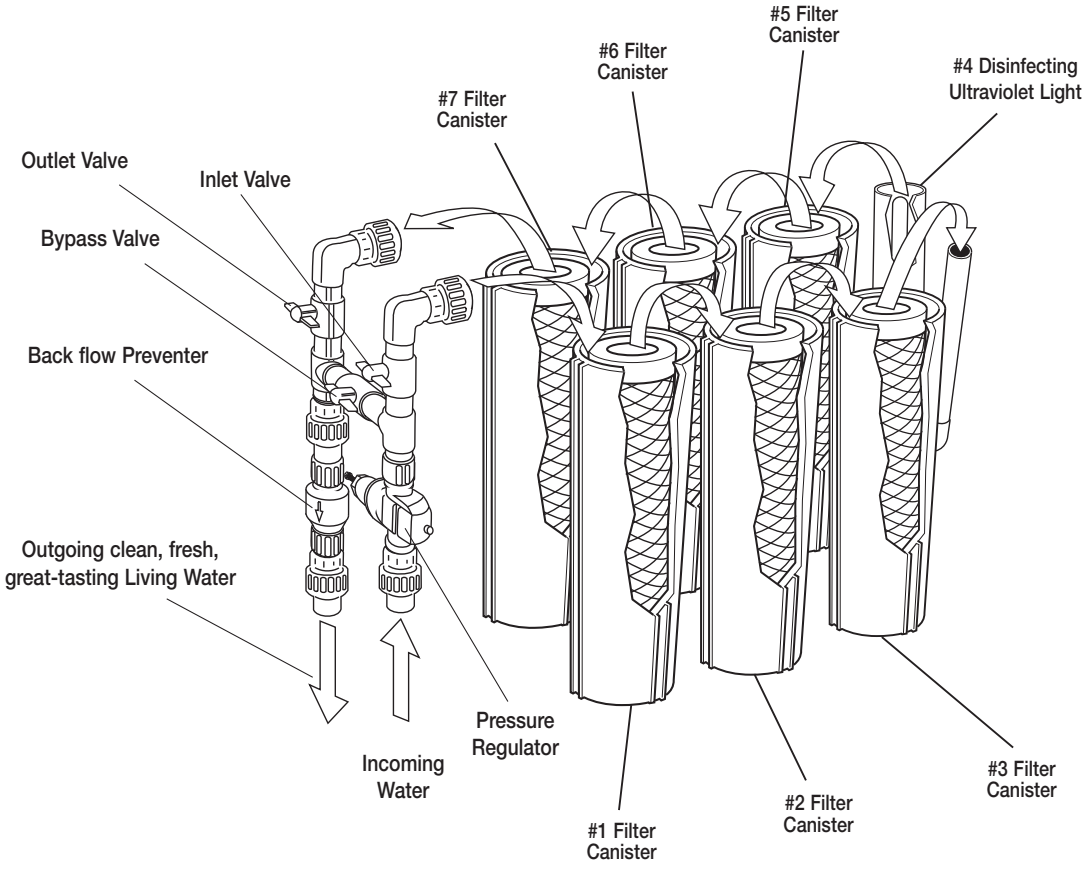
Additional Information

Filter life varies with all filters because of broad variations in the quality and quantity of particulate and chemical material found in water supplies. Realistically, a useful life of up to 1 year can be expected in applications served by municipal water. Indications that one or more of the filters are reaching the end of their useful life include:

- A noticeable reduction in flow rate through the SpringHouse.
- A noticeable change in the taste of the water.

Failure to change filter or to perform necessary maintenance in accordance with recommendations contained in this manual could result in diminished performance and reduced water treatment.

Operating the SpringHouse without all filters installed as recommended could adversely affect the treatment performance of the unit. Call Tech Support (423.798.6700) prior to modifying filter configuration.

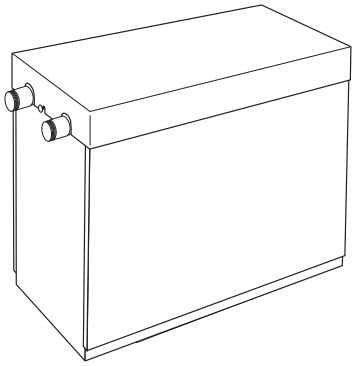


NOTE: System should be installed by a licensed plumber and protected from freezing or excessive heat to avoid damage and voiding of Warranty. Be sure you have read system information starting on page 2 before proceeding further!

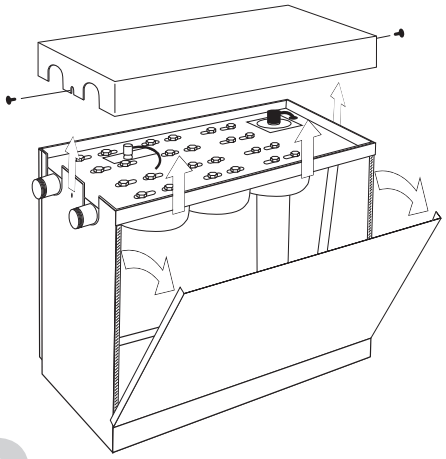
GENERAL PRECAUTIONS:

- Installation must be done by a qualified plumber in accordance with local codes. Failure to do so can result in damage not covered by your SpringHouse warranty. Installation by a licensed plumber is recommended.
- SpringHouse can be installed outdoors but must be protected from freezing, excessive heat and direct sunlight. Failure to do so can result in component failure, water leakage, and/or property damage and will void the warranty.
- Install on cold water lines only.
- Install after the pressure regulator.
- Install after any pressure tanks or other water treatment equipment such as softeners.
- Flow must be in the direction indicated on the canister tops.
- When installing unit, be sure to position it for easy access to the filter canisters for maintenance purposes.
- Unit must be located within 6 feet of a 110v - 120v gfci outlet.
- Inlet and outlet plumbing 1 inch.
- Maximum supply pressure 250 psi.
- Operating temperature range of 35-100 degrees Fahrenheit.
- Rated service flow of up to 8 g.p.m. The use of reducers and/or excessive fittings can result in a decreased flow rate and is not recommended. Household water pressures of less than 40 psi will result in a noticeable reduction in flow rate.

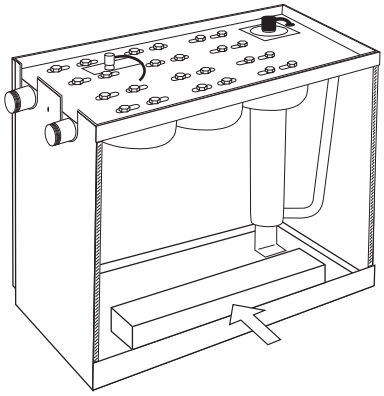
PRELIMINARY MEASURES



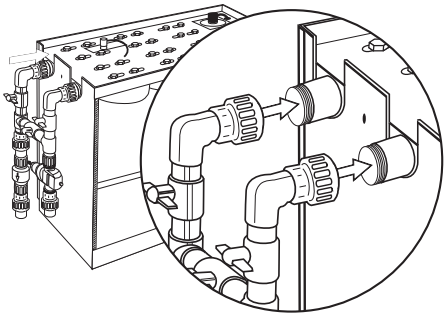
1. Place the unit in the location of installation.



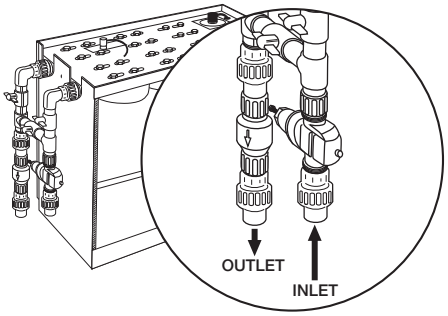
2. Remove top cover by loosening thumb screws and pulling upward in a straight motion. Set the top aside. Remove side panel which is attached with hook & loop tape. Grasping the edges on both ends, pull outward tipping top toward you. You may remove both sides for best access if space allows.



3. Carefully remove the carton located in the base of the unit. This carton contains the ultraviolet light and quartz sleeve.



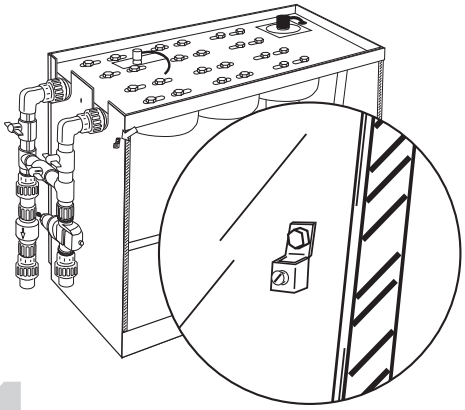
4. Carefully unwrap the valve assembly and connect it to the unit using the two unions as shown in the accompanying diagram. Make sure all unions are snug and free of “play.”



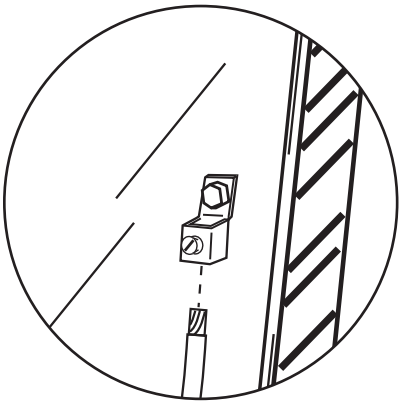
5. Plumb the unit into the water service line using the unions provided paying close attention to the inlet and outlet.

GROUNDING THE UNIT

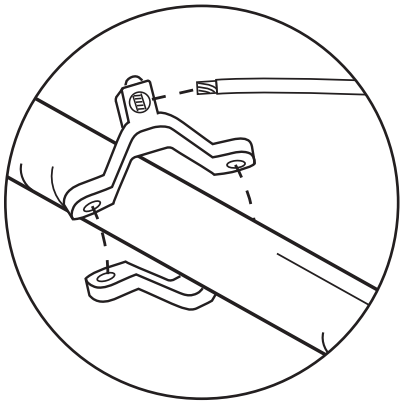
CAUTION: failure to properly ground the unit could lead to serious injury or death.



1. Locate the Grounding Lug on the plumbing side of SpringHouse to be used for grounding.



2. Insert provided grounding wire into Grounding Lug connection point and tighten clamp screw.



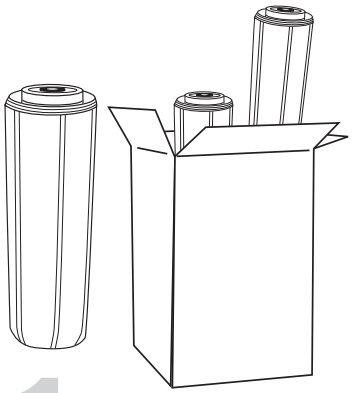
3. Attach opposite end of grounding wire to a proper household ground. Provided Grounding Clamp to be used metallic plumbing entering facility.

ASSEMBLING YOUR SPRINGHOUSE FILTERS

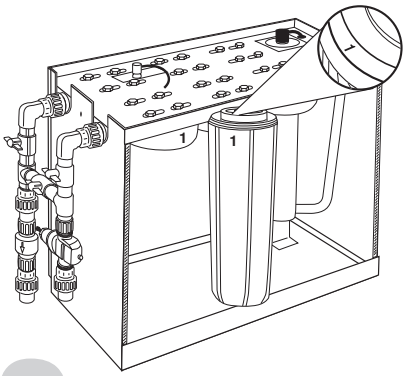
WASH HANDS THOROUGHLY AND FREQUENTLY WHILE HANDLING FILTER CARTRIDGES TO AVOID CONTAMINATING THE CARTRIDGES.

WORK WITH ONLY ONE FILTER CANISTER AT A TIME TO AVOID MIXING UP THE FILTERS. DO NOT OVER TIGHTEN THE CANISTER.

FILTER CANISTER INSTALLATION



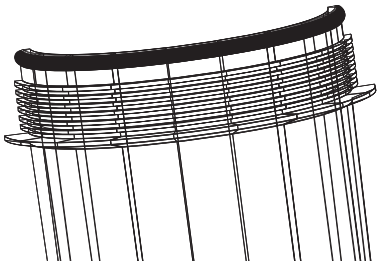
1. Remove the blue filter canisters (containing the filters) from the boxes.



2. Each blue filter canister, black canister cap (on the unit) and filter is numbered. Take filter canister #1, remove the filter from the canister and set aside.

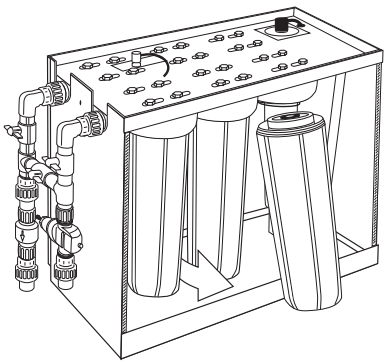
NOTE: FILTER PACKING MUST BE REMOVED BEFORE INSTALLATION.

3. Wash the inside of the canister using hot water and a small amount of household dish washing detergent (automatic dish washing detergent is best).
Rinse the canister thoroughly using clean water until all soap residue is removed.
Remove the protective plastic from the filter which should be marked with the number 1 and place it in the housing.



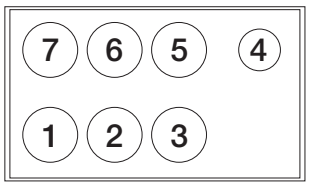
4. Apply a light coat of food-grade lubricant (such as silicone gel) to the surface of the black O-ring at the top of the housing. **This step is very important and cannot be skipped for any reason.**

CAUTION:
Do not over tighten canisters when installing.



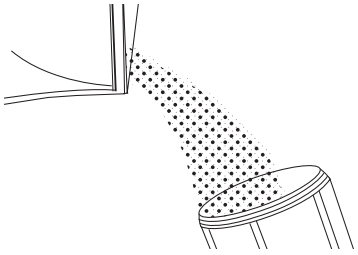
5. Being careful to match the number on the blue canister with the number on the black canister head, carefully screw the blue canister into the black portion of the filter canister. Hand tighten the canister. Snug with supplied wrench. DO NOT overtighten canisters.

NOTE: Canister 4 is for the UV lamp. (See next page)



6. Repeat the installation process, in-turn, for canisters 2, 3, 5, and 7. Container 6 will contain the polyphosphate granules, see step 7.

NOTE: When a new Carbon or KDF filter is installed, it is strongly recommended that the 1-micron filter (canister #7) not be installed until the system is fully flushed as described in item 21 under "Replacing Filter Cartridges" (page 10). This will prevent premature clogging of the filter.



7. For canister 6, clean as recommended for canisters 1, 2, 3, 5, and 7. Open the bag of polyphosphate granules and pour them into the canister. Install the canister.

ULTRAVIOLET (UV) LAMP AND SLEEVE ASSEMBLY

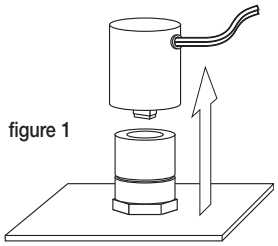


figure 1

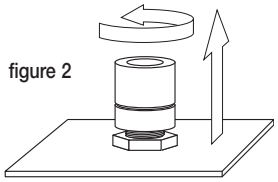


figure 2

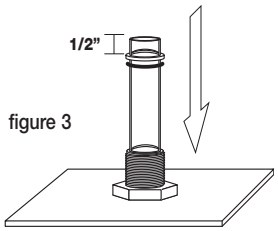


figure 3

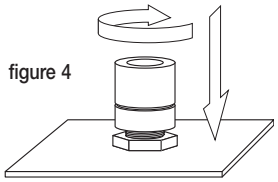


figure 4

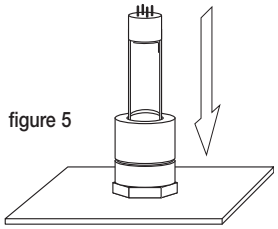


figure 5

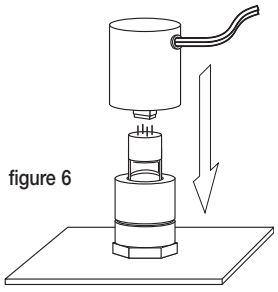


figure 6

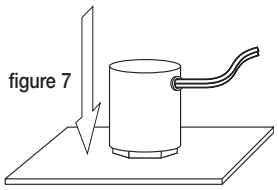


figure 7

WARNING: THE SLEEVE IS FRAGILE. ROUGH HANDLING OR MISALIGNMENT WILL CAUSE IT TO BREAK.

CAUTION - SHOCK HAZARD: BE SURE UNIT IS PROPERLY GROUNDED (SEE PAGE 7) AND AREA IS FREE OF STANDING WATER BEFORE PLUGGING UNIT INTO RECEPTACLE.

1. Locate canister number 4 (shown on previous page). With the **plastic cover** removed, remove the threaded **retainer** on the top of the ultraviolet (UV) canister. (See figure 1 & 2).

2. Open the carton containing the **UV lamp** and the **quartz sleeve**. Remove the **quartz sleeve** from its packing. (Be sure not to remove UV bulb from packing yet).

3. The **quartz sleeve** resembles a large test tube. Remove the sleeve from the packing and place it into the top of the UV canister and carefully lower it into place. Be sure the **sleeve** is straight and slides fully into the receiving tube at the bottom of the canister. The sleeve will be fitted with a black O-ring and a plastic washer near the top. These should be positioned about 1/2 inch from the top of the tube. All water should be removed from the canister before proceeding with this step (See figure 3).

4. Check that the bottom of the **sleeve** is seated properly by gently depressing the top edge of the sleeve with a finger. The sleeve should bounce on the spring located in the receiving tube. If it does not bounce the tube is misaligned and must be re-seated BEFORE proceeding. Apply a very thin coat of unscented petroleum jelly to the top rim of the sleeve. Be careful not to get any of the jelly on the inside of the sleeve.

5. Place the threaded **retainer** over the top of the **sleeve** and gently tighten the cap until it is snug and the top of the **sleeve** is properly seated in the cap. Do not over-tighten as the **sleeve** may break (See figure 4).

6. Check the seat at the top of the **sleeve** by reaching into the middle of the **retainer** and rubbing a finger along the inside of the glass. There should be a slight gap between the glass and the **cap**. If an uneven gap is present, do not attempt to tighten the **cap** further as the **sleeve** will break. The uneven gap indicates that the **sleeve** is misaligned. STOP and repeat step #3 taking care to insure proper seating and alignment of the sleeve.

7. Remove the **UV lamp** from the packing and clean thoroughly with rubbing alcohol to remove all traces of oil and grease. Be careful not to touch the glass **lamp** area with your fingers as this will leave oils on the **lamp**, causing the **lamp** to fail prematurely.

8. Carefully slide the **UV lamp** through the **retainer** and into the **quartz sleeve** making sure that the lamp prongs are at the top (See figure 5).

9. Plug the ballast into the top of the **UV lamp** (See figure 6).

10. Place the **plastic cover** over the **retainer** to protect the top to the **UV lamp**. The **lamp** should be seated low enough in the **sleeve** so that when the **plastic cover** is in place, there is clearance between it and the cabinet top (See figure 7). Plug ballast into properly grounded 110-120 Volt household receptacle.

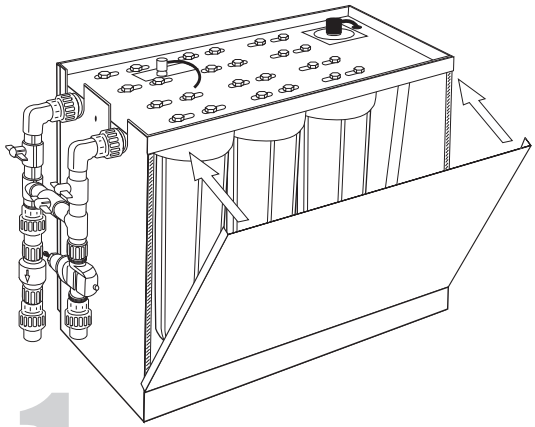
CHARGE THE SYSTEM

Turn on water:

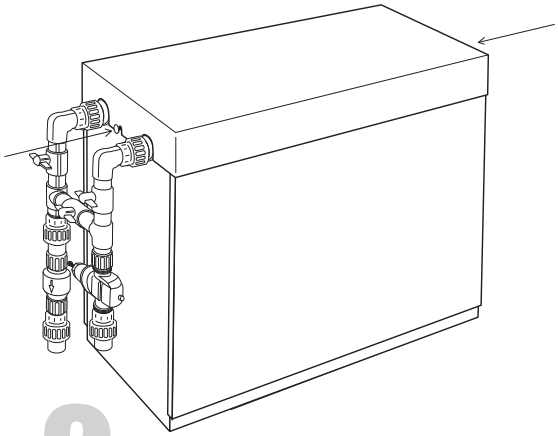
1. Uncoil clear tubing attached to pressure relief valve on top of unit, and place end of tube into bucket or drain. Open pressure relief valve.
2. Gradually turn on water to unit being careful to secure the plastic hose into a bucket or drain.
3. Allow unit to fill until a steady stream of water is flowing from the bypass valve tubing and all air has been purged from the system. Close pressure relief valve.
4. Check unions on valve assembly.
5. Check filter canisters for leaks.
6. Check around the top of UV lamp fittings for leakage.
7. Flush system as per item 19 in section "Replacing Filter Cartridges" (page 11).

If you see any water leaking from any of the mentioned locations, tighten slightly until leak has stopped. Side panels and top cover may be kept off for a period of time in order to watch for any leaking following initial pressurization.

REASSEMBLY



1. Replace side panels with hook & loop tape.



3. Lower cover into place. Tighten thumb screws.

OPERATION AND MAINTENANCE

NOTICE: UNPLUG SYSTEM BEFORE PERFORMING ANY OF THE MAINTENANCE PROCEDURES LISTED!

To open the inlet, outlet, or bypass valve: Turn handle in a counter clockwise direction. To close turn in a clockwise direction.
NOTE: Handle will only rotate 1/4 turn. Bypass valve should be closed when inlet/outlet valves are open for normal operation.

1. UV Diagnostic System: Audible and visual alarm on ballast. Red indicates lamp or electronics system failure.
2. Frequency of maintenance - **NOTE:** Filter and/or life varies depending on quality of water supply. See page 16 for parts ordering information and order numbers.
   - 5-micron filter: Replace annually, check for sediment semiannually.
   - UV lamp: Replace annually.
   - Polyphosphate: Refill semiannually or when crystals have been mostly dissolved.
   - MAZ filter, KDF filter, carbon block, and 1-Micron filter: Check every 6 months and replace if necessary. Filters should be replaced at least once a year to insure proper water treatment.

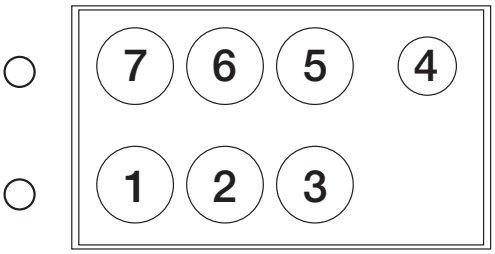
REPLACING FILTER CARTRIDGES

CAUTION - SHOCK HAZARD: BE SURE UNIT IS UNPLUGGED BEFORE PROCEEDING WITH FILTER REPLACEMENT.

Replacing filter cartridges (canisters #1,2,3,5, & 7), ultraviolet light (canister #4), or polyphosphate crystals (canister #6)

1. Remove cover and unit housing following instructions on page 6, Step 2.
2. Uncoil clear tubing attached to pressure relief valve on top of unit and place end of tube into bucket or drain.
3. Open bypass valve (see illustration page 5).
4. Close inlet valve and outlet valve (see illustration page 5).
5. Open pressure relief valve (be sure tube is secured in bucket or drain). Leave pressure relief valve open.
6. Unscrew blue canister counter clockwise using supplied canister wrench.
7. For canisters 1, 2, 3, 5, 6, & 7, remove used cartridge/crystals and discard.
8. **CAUTION: Confirm system is disconnected from power source before proceeding with step 8!**
   On canister #4, pull up on plug cap (see page 9 - figure 1) until lamp is exposed. Unplug lamp, from plug cap. Remove old lamp from chamber and insert new lamp with connectors pointing up. Plug lamp into plug cap and place cap back over top.
10. Rinse out each canister and fill about 1/3 full of water. Add 2 tablespoons of bleach and scrub thoroughly with a fine bristle brush or cloth. Let blue canister remain wetted with bleach solution for 5-10 minutes. Empty canisters and rinse thoroughly.
11. Insert a new cartridge into the canisters or refill polyphosphate crystals as required. EXCEPTION-See #19 below before proceeding.
12. Screw the blue canister into the cap and HAND tighten. Gently snug the canister with the supplied wrench. DO NOT OVER-TIGHTEN.
13. Open inlet valve (see illustration page 5) and be sure tube is secured in bucket or drain.
14. Open outlet valve (see illustration page 5).
15. Close bypass valve (see illustration page 5).
16. Observe tubing to determine that all air has escaped the unit.
17. Close pressure relief valve and coil tubing on top of unit.
18. Check for leaks before leaving installation.
18. Replace unit housing and cover.
19. Some cartridges may contain a small amount of "fines" (very fine black powder). Following the installation of new filter cartridges, the system should be sufficiently flushed to remove these "fines" before using the water. Important: Run one faucet in the home for 20 minutes after the installation of any new filter.
    The 1-micron filter should be left out of canister 7 until the unit has been flushed to prevent pre-mature clogging of the filter.

CAUTION - SHOCK HAZARD: BE SURE AREA IS FREE OF STANDING WATER BEFORE PLUGGING UNIT INTO RECEPTACLE.



Municipal Source Water	
Step 1:	5-Micron, dual-gradient particulate filter
Step 2:	Carbon Block filter
Step 3:	Carbon Block filter
Step 4:	High intensity UV chamber
Step 5:	MAZ filter
Step 6:	Anti-scalent/sequestering agent (polyphosphate)*
Step 7:	1-micron filter (absolute) particulate filter

On Site Well Source Water	
Step 1:	5-Micron, dual-gradient particulate filter
Step 2:	MAZ filter
Step 3:	Carbon Block filter
Step 4:	High intensity UV chamber
Step 5:	KDF Media filter
Step 6:	Anti-scalent/sequestering agent (polyphosphate)*
Step 7:	1-micron filter (absolute) particulate filter

*** Specialty filters are available for treatment of unique contaminants. These are normally installed in place of the sequestering agent in canister #6. Ask your Independent Business Owner for details.**

Sudden or Very Rapid Decrease in Observed Flow Rate

Possible Causes:

1. Substantial Drop in Pressure of Feed Water
2. Inlet or Outlet Valve on SpringHouse Partially Closed
3. Obstruction Within the SpringHouse
4. Blockage in check valve

Actions: (complete in order until problem is isolated)
CAUTION - SHOCK HAZARD: Be sure unit is unplugged before proceeding with any step.

1. Check to make sure that both the inlet and outlet valves on the SpringHouse unit are in the fully opened position.
2. Close inlet and outlet valves to SpringHouse unit. Open bypass valve. Is full flow restored? If yes, problem resides with the SpringHouse, if no, problem resides with the water system supplying the SpringHouse or the back flow check valve on the valve assembly.
3. Remove back flow check valve and check for proper alignment and operation. If unit is operating correctly, problem resides with water system supplying the SpringHouse unit. If back flow check valve is operational and full flow is achieved in bypass mode, proceed to step 4.
4. Turn off the water supply to the SpringHouse, leave the bypass closed and open a faucet. This will bleed off the pressure in the system. Under certain extreme conditions, turbulence in the SpringHouse may mobilize some of the polyphosphate crystals in the outlet of canister #6. These crystals could become lodged in the outlet of the filter. Relieving the pressure on the system would have allowed them to fall back into the bottom of the canister, once again opening the restriction. Repressurize the unit then open the supply line to household plumbing system. If full flow is not restored, proceed to next step.
5. Turn off the water supply to the SpringHouse, leave the bypass closed and relieve pressure using the pressure relief valve on the unit (on those units where the valves are operational) or by opening a faucet. This will bleed off the pressure in the system. Carefully remove canister #6. Inspect for floating debris on the surface of the water PRIOR to emptying the canister. If no debris is evident, SLOWLY pour out the water in the canister while inspecting for presence of any debris. Once emptied of water, set the canister aside. Reach into the outlet side of the canister head (this is the hole in the middle) and probe to identify if the outlet orifice is plugged. If it is, remove material, replace canister and repressurize unit. If full flow is not restored, repeat the procedure with canisters 1, 2, 3, 5, and 7.
6. If full flow is still not restored, it is likely that a filter is clogged or faulty. Refer to page 11 regarding the changing of filters.

Gradual Reduction In Flow Volume or Pressure

Possible Causes:

1. Water pressure to the house from the source has been reduced
2. One or more filter cartridges in the SpringHouse unit are clogging or otherwise reaching the end of their useful life

Actions: (complete in order until problem is isolated)
CAUTION - SHOCK HAZARD: Be sure unit is unplugged before proceeding with any step.

1. Check to make sure that both the inlet and outlet valves on the SpringHouse unit are in the fully opened position.
2. Close inlet and outlet valves to SpringHouse unit. Open bypass valve. Is full flow restored? If yes, problem resides with the SpringHouse, if no, problem resides with the water system supplying the SpringHouse.
3. Turn off the water supply to the SpringHouse, leave the bypass closed. Bleed pressure in the system by opening a faucet or the pressure relief valve on the unit itself. Close the outlet valve. Wash hands. Carefully remove canister #7 and take out the 1-micron filter, placing it in a clean plastic garbage bag. Replace canister #7 WITHOUT the filter, being careful to lubricate the O-rings with a suitable food-grade silicone. Open the outlet valve and then the inlet valve to the SpringHouse allowing the unit to repressurize. Check to determine if full flow through the SpringHouse unit has been restored. If it has, you have isolated the clogged filter and can proceed to install a new one. If flow has not been restored you must check the remaining canisters, each in turn.
4. Canister #6 contains loose polyphosphate crystals. Refer to **"Sudden or Very Rapid Decrease In Observed Flow Rate"** steps 4, 5, and 6 to check this canister.
5. Without returning the filter cartridge to canister #7, repeat the procedure outlined in #3 above for canisters 5, 3, 2, and 1 being sure to check each in turn until the clogged filter is identified. DO NOT MIX UP THE CARTRIDGES AS THOSE THAT ARE NOT CLOGGED MUST BE REINSTALLED IN THEIR ORIGINAL CANISTERS.
6. Once you have identified the clogged filter and replaced it, replace the previously removed filters to their original canisters. Turn on the water supply to the SpringHouse by opening the inlet valve. Leave the bypass closed and open the outlet valve. Open a faucet to bleed the air from the system and check to insure that full flow is restored through the SpringHouse.

INSTALLATION NOTES:

INSTALLATION NOTES:

Limited Two (2) Year Warranty

EcoQuest International warrants to the original purchaser that each SpringHouse will be free from defects in material and workmanship under normal usage for two (2) years from the date of original shipment of the unit. In the event that such defects become evident during the warranty period, EcoQuest will, at its option, replace or repair the product without charge to you. This warranty does not include transportation nor insurance charges for the product. All warranty work must be performed by EcoQuest International or by an authorized service provider. This warranty will not cover repairs performed by other than EcoQuest authorized service providers unless expressly otherwise agreed by EcoQuest, in writing.

Limited One (1) Year Warranty on Filters and Lamps

The filters and ultraviolet lamp which are included with your original purchase are considered replacement items. These items have limited lives and the purchaser understands that they will require periodic replacement. EcoQuest International warrants to the original purchaser that each filter and ultraviolet lamp will be free from defects in material and workmanship under normal usage for a period of one (1) year from the date of original shipment. In the event that such defects become evident during the warranty period, EcoQuest will, at its option, replace or repair the item without charge. The warranty for replacement filters and ultraviolet lamps does not include normal consumption or usage of the filters and lamps.

Warranty Limitation

Installation of this unit on other than a potable water system will immediately and completely void the warranty. The warranty is also voided and provides no coverage where the damage results from improper installation, alterations, abuse, or misuse as determined by EcoQuest International.

ALL WARRANTIES IMPLIED BY STATE LAW INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED IN LIEU OF THE LIMITED WARRANTY SET FORTH ABOVE.

Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS, AND SIMILAR OBLIGATIONS OF THE MANUFACTURER OR SELLER WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PRODUCT OR PARTS, WHETHER EXPRESSED OR IMPLIED.

IN NO EVENT SHALL THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation may not apply to you.

These warranties are given in lieu of any other warranties, expressed or implied. No person, agent, distributor, dealer, service station, or company is authorized to change, modify, or extend the terms of this warranty in any manner whatsoever.

How to Obtain Warranty Service

For warranty service, call 1.800.989.2299 and ask for warranty claims or write to the address provided below. Parts returned to EcoQuest International under this warranty must be shipped to the following address postpaid:

EcoQuest International

310 T. Elmer Cox Drive

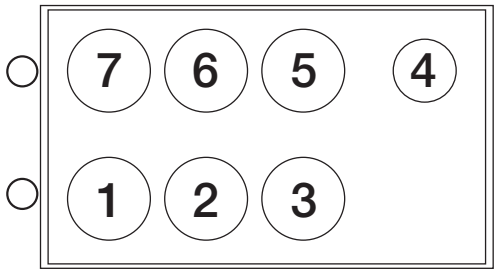
Greeneville, TN 37743

PART NUMBERS

Municipal Source Water	
Step 1:	5-Micron, dual-gradient particulate filter **US70940**
Step 2:	Carbon Block filter **US70793**
Step 3:	Carbon Block filter **US70793**
Step 4:	High intensity UV chamber **US70235**
Step 5:	MAZ filter **US70237**
Step 6:	Anti-scalent/sequestering agent (polyphosphate)* **US70242**
Step 7:	1-micron filter (absolute) particulate filter **US70241**

On Site Well Source Water	
Step 1:	5-Micron, dual-gradient particulate filter **US70940**
Step 2:	MAZ filter **US70237**
Step 3:	Carbon Block filter **US70793**
Step 4:	High intensity UV chamber **US70235**
Step 5:	KDF Media filter **US70238**
Step 6:	Anti-scalent/sequestering agent (polyphosphate)* **US70242**
Step 7:	1-micron filter (absolute) particulate filter **US70241**

*** Specialty filters are available for treatment of unique contaminants. These are normally installed in place of the sequestering agent in canister #6. Ask your Independent Business Owner for details.**



Top view, valve assembly on left.

FCC DECLARATION OF CONFORMITY

Name: EcoQuest

Model: SpringHouse

Manufacturer: EcoQuest Manufacturing

This device complies with Part 18 of the FCC Rules.

RESPONSIBLE PARTY

EcoQuest International
310 T. Elmer Cox Drive
Greeneville, TN 37743

Ph: (800) 989-2299

Signature: _____

Printed Name: Paul Beam

Title: Director of Engineering

Date: 8/8/05

This equipment has been tested and found to comply with the limits for Industrial, Scientific, and Medical Equipment (ISM), pursuant to Part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the Independent Business Owner or an experienced radio/TV technician for help.

EcoQuest INTERNATIONAL "Healthy Living Technologies"

SpringHouse

Whole Home Water Treatment System

65-00008-005
Rev. 0906