



UNITED
WATER FILTERS



Owner's Manual

Whole House Water Filter/Conditioner
Models: RW10 & PS15

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Product Operation and Specifications

Specification Description	RW10	PS15
Max Flow Rate	10 GPM	15 GPM
Minimum Working Pressure	25 PSI	
Maximum Working Pressure	80 PSI	
Maximum Vacuum	5 inch/127 mm Hg	
Operating Temperatures	36°F – 120°F	
pH Range	6 – 11	

Important Information

- Read these instructions carefully and determine the location of all system components before beginning installation.
- Check all applicable plumbing, building, and electrical codes for installation compliance.
- Install the system on the main water supply.
- Systems that contain electronic components cannot be installed outside in uncovered areas.

WARNING:

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 a bypass consisting of the same material as the existing plumbing, or a grounded "jumper wire" bridging the equipment and re-establishing the contiguous conductive nature of the plumbing system must be installed prior to your systems use.

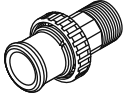
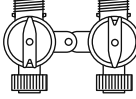
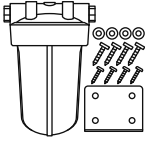
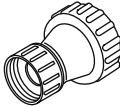
CAUTION:

When adding a filtration/softening system to homes/buildings supplied by well water, the system should be installed following the pressure tank. **DO NOT USE this system for pneumatic or hydro pneumatic applications. If you are using a booster pump, then install this system following the booster pump.** If you have questions, please call technical support at 844-663-3078.

Complete Parts List

Note: Enviro Water Solutions supplies the parts below to accommodate a variety of water supply lines.

Table 1: Parts List

Part	Description	Qty.	Part	Description	Qty.
	1" Plastic Male NPT Assembly: 1" Plastic Male NPT Assembly (2): O-Rings (2), Split Rings (2), and Connectors (2)	1		Bypass Valve: In/Out Bypass Valve with Red Arrow Handles	1
	Sediment Filter System: Big Blue Sediment Filter Housing, Mounting Bracket, Phillips Head Screws (4), Bolt Head Screws (4), and Washers (4)	1		Hose Bib Assembly	1
	Sediment Filter: 5 Micron Poly-Spun Sediment Filter	1		Whole House Water Filter/Conditioner	1
	Sediment Filter Wrench	1			

Note: Drawings are not to scale.

Additional fittings will be needed to adapt to your plumbing.

Installation Overview

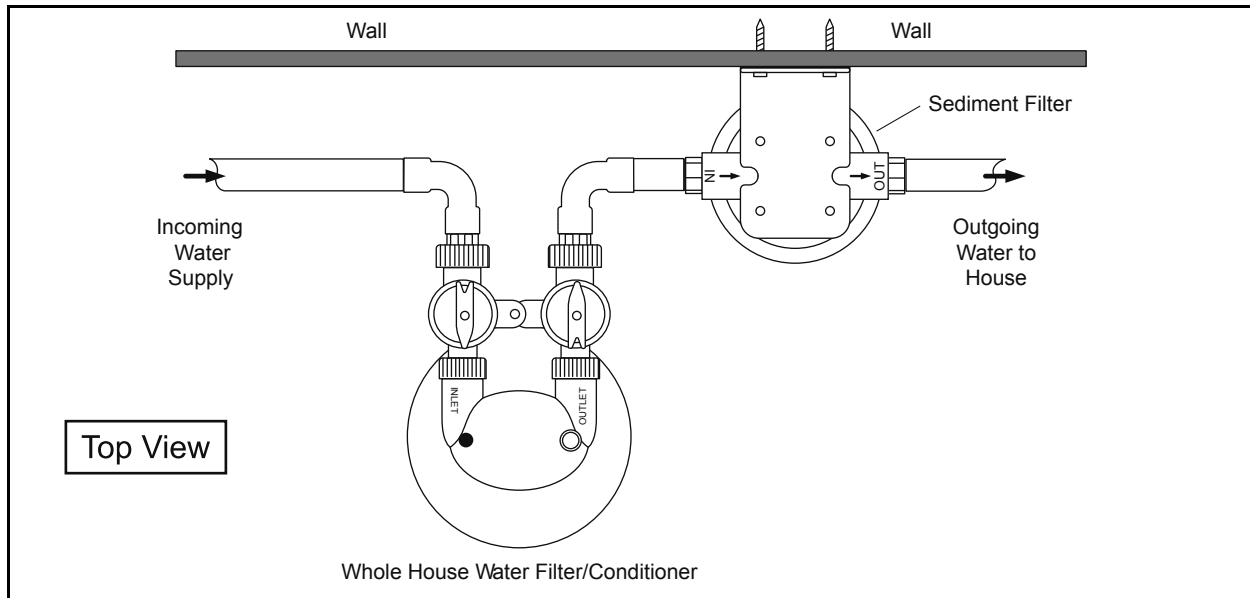


Figure 1

Pre-Installation

Bypass Valve Installation

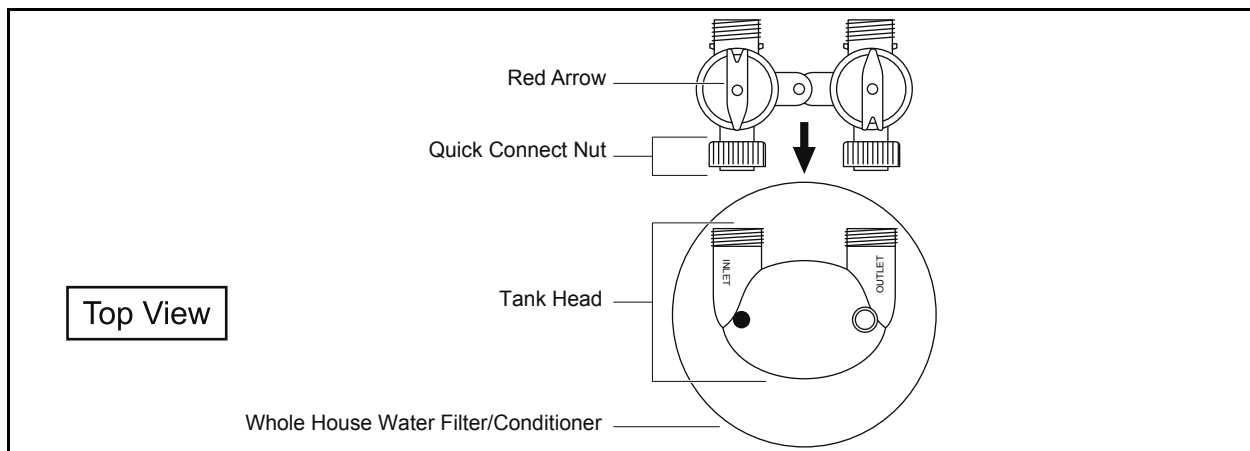


Figure 2

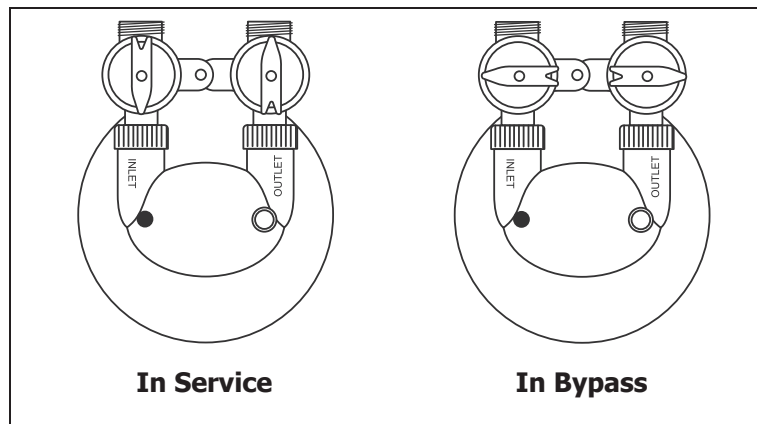
The Bypass Valve comes pre-assembled and ready to install with the O-Rings, Split Rings, and Quick Connect Nuts. Push the Bypass Valve into the head of the Whole House Water Filter/Conditioner with the unthreaded ends oriented toward the tank and hand-tighten the Quick Connect Nuts.



Notice:

The bypass valve(s) included with this system are designed for multiple water systems. This may result in the arrows on the bypass valve(s) pointing differently than shown. If the arrows on your bypass valve(s) do not match the diagram, remove the red arrows by pulling them straight up, turn them 180° to match the drawing, and push them back down onto the stem.

Bypass Operation



Carbon Soak

!!IMPORTANT!!

Your system will not be ready for use for a minimum of 48 hours while the Carbon Soak process takes place. Please plan your installation accordingly.



Notice:

Water will flow out of the outlet side of the Bypass Valve during this process. Be sure you perform this series of steps in a location suitable for water flow.

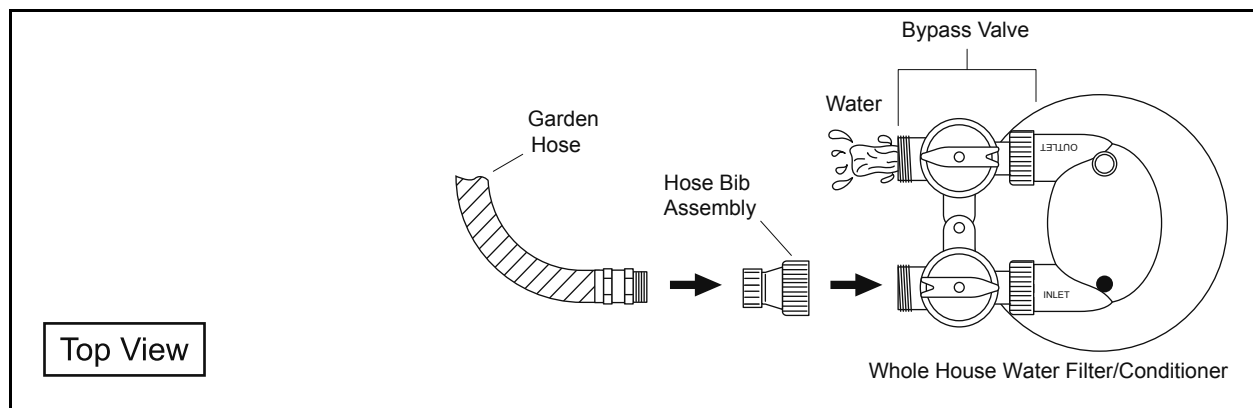


Figure 3

1. Attach a garden hose to the Hose Bib Assembly.
2. Connect the Hose Bib Assembly to the inlet side of the Bypass Valve and hand tighten.
3. Fill the Whole House Water Filter/Conditioner Tank full until water comes out of the outlet side of the Bypass Valve.
4. Turn the water off.
5. Remove the garden hose from the Hose Bib Assembly. Do not remove the fitting.
6. Allow the tank to soak for a minimum 48 hours prior to installation.

Carbon Flush

!IMPORTANT!

Do not perform the Carbon Flush until the Carbon Soak process is complete.



Notice:

Water will flow out of the outlet side of the Bypass Valve during this process. Be sure you perform this series of steps in a location suitable for water flow.

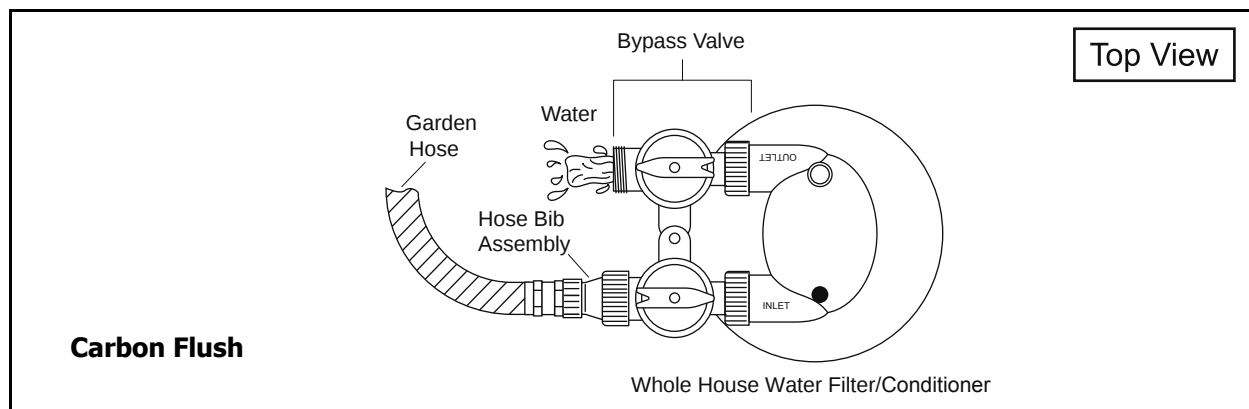


Figure 4

1. Reattach the garden hose to the Hose Bib Assembly.
2. Slowly turn on the water less than a 1/4 turn on the hose spigot for this entire process.
3. Run water through the inlet side of the Bypass Valve for 30 minutes to expel the carbon fines.
4. Turn off the water.
5. Remove the Hose Bib Assembly from the inlet side and attach it to the outlet side of the Bypass Valve.
6. Slowly, fully open the hose spigot.
7. Run the water through the outlet side for 3 minutes to reset the carbon.
8. Turn off the water.
9. Remove the Hose Bib Assembly from the Bypass Valve and disconnect the garden hose.

Note: Please save the Hose Bib Assembly as this will be used in the future for the carbon replacement.

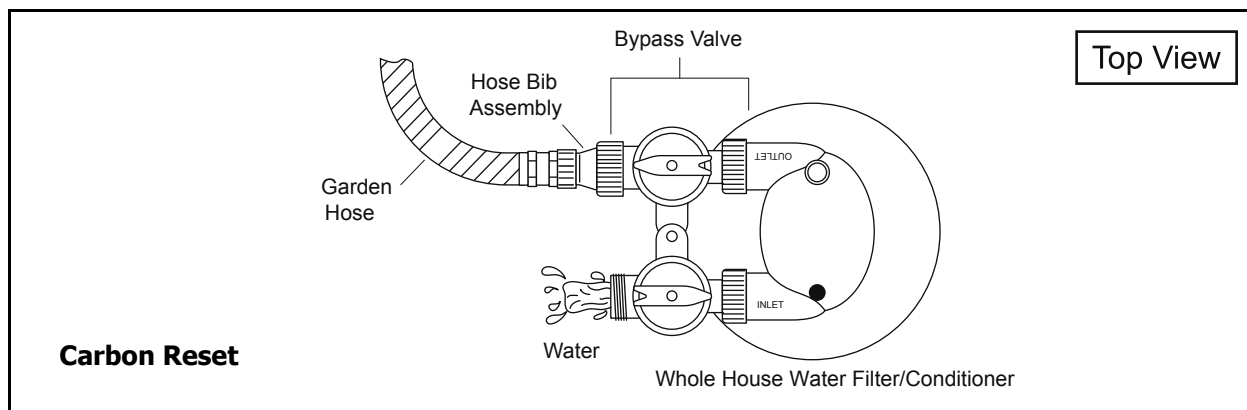


Figure 5

Installation

Whole House Water Filter/Conditioner Installation

1. Level the Whole House Water Filter/Conditioner.



Notice:

If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.

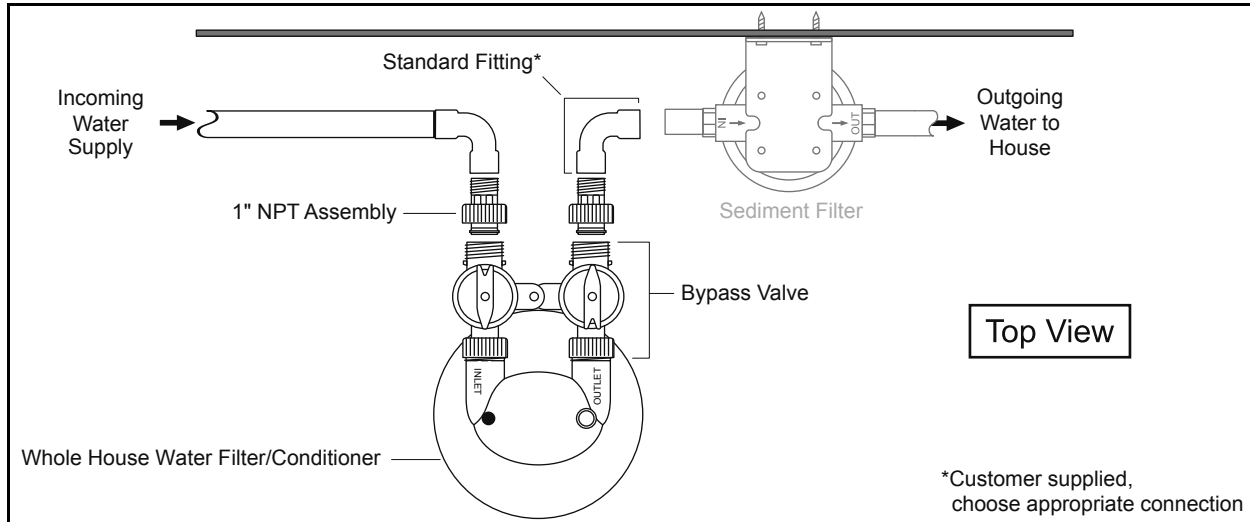


Figure 6

2. Determine the size and material of your incoming water supply line and choose the appropriate plumbing required to adapt to the 1" Male NPT Assembly.

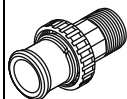


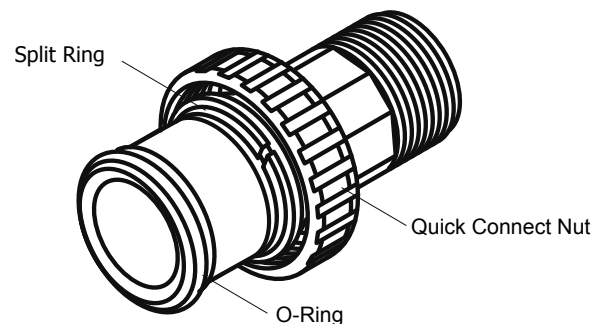
CAUTION:

Do not over-tighten any of the fittings during installation.

Table 2: Bypass Valve Fittings

Note: The fitting below is designed with a ¼" give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

Part	Description	Qty.
	1" Plastic Male NPT Assembly: V3007-04 WS1 Fitting 1" Plastic Male NPT Assembly (2): O-Rings (2), Split Rings (2), and Connectors (2)	1 bag



3. Install the fitting into the inlet and outlet sides of the Bypass Valve. Follow the diagram supplied with the fitting.
4. Shut off main water supply
5. Connect the incoming water supply to the fitting on the inlet side of the Bypass Valve.
6. Connect the outgoing water supply to the outlet side of the Bypass Valve.

Sediment Filter Assembly

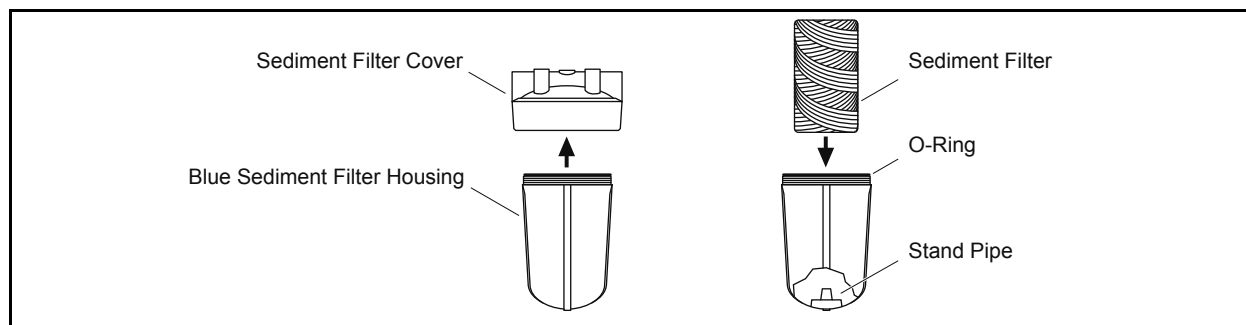


Figure 7

1. Unscrew the cover from the Blue Sediment Filter Housing.
2. Remove the plastic covering from the Sediment Filter.
3. Place the Sediment Filter onto the Stand Pipe in the Blue Sediment Filter Housing.
4. Lube the O-Ring with clean silicone grease before attaching the cover onto the housing.
5. Screw the cover onto the Blue Sediment Filter Housing until hand-tight.

Sediment Filter Installation

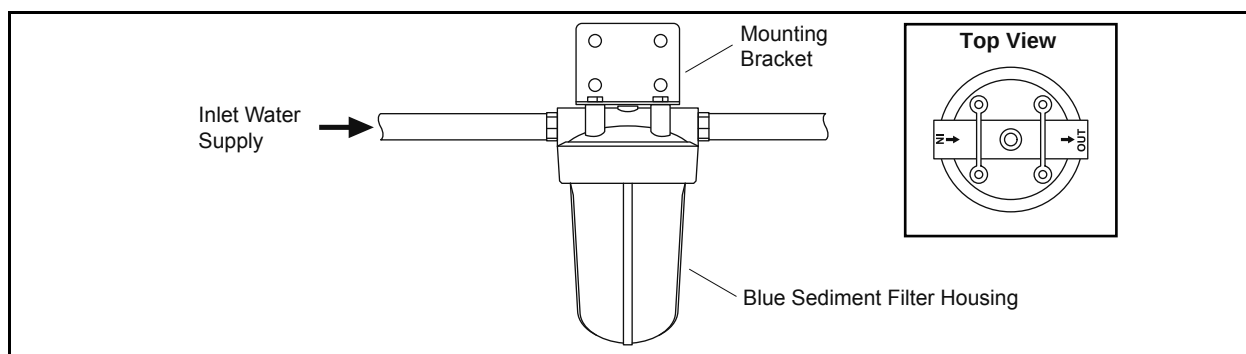


Figure 8

1. Attach the Mounting Bracket to the wall using the supplied Phillips Head Screws.
2. Attach the Sediment Filter System to the Mounting Bracket using the supplied Bolt Head Screws and washers.
3. Lightly tighten the Blue Sediment Filter Housing using the supplied Sediment Filter Wrench (counter clockwise, do not over-tighten).
4. Connect outgoing water supply from the Filter/Conditioner to the inlet of the Sediment Filter system.
5. Connect the outgoing water supply to the home to the outlet side of the Sediment Filter system.

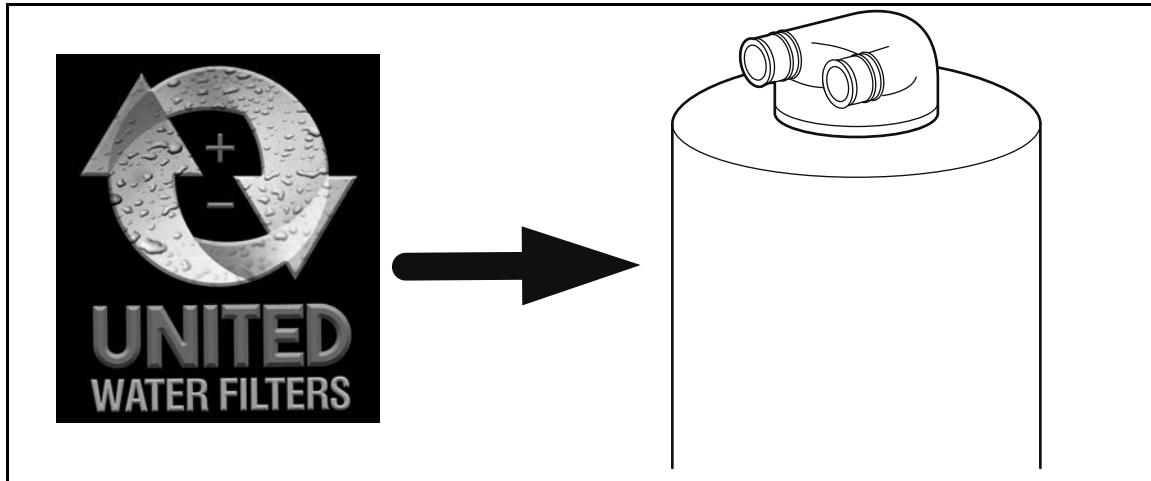


Notice:

The Sediment Filter Housing comes with a 1" threaded female inlet/outlet and will require additional fittings to adapt to your plumbing. A shut-off valve is recommended prior to the Sediment Filter System.

Complete the Installation

1. Turn on the main water supply.
2. Check for leaks.
3. Add the logo sticker in the desired location on the tank.



⚠ CAUTION:

Avoid high flow rates such as bathtub, utility sinks, hose bibs, multi-headed showers, body sprayers, or anything that is considered high flow for the first 72 hours to avoid flow restrictions caused by carbon blockage of the top basket inside the tank.

⚠ CAUTION:

Carbon dust may be released into the water lines of the house/building during the first few days of water use after tank installation. The carbon dust is harmless, but may give the water a gray appearance that should diminish within a week or 10 days depending on water use.

What to Expect with your New Whole House Filter/Conditioner

If you have never had a water conditioner:

- **Reduced softness of the water.** This will be particularly evident when using hot water. The water can pick up more than ten grains of mineral content per gallon between the system and the faucet as it travels through the water heater and the plumbing due to the de-scaling effect.
- **Mineral silt in the water.** Since the existing limestone scale is softened and dissolved as part of the de-scaling effect, it will detach in small chunks ranging in size from very fine silt to pieces larger than a grain of sand. The larger pieces may be big enough to build up in the aerator screens of your fixture. Considerable silt-like accumulations may be visible on the shower heads, so clean them weekly for the first four weeks. Higher flow rates will shear off more of the existing scale than will lower flow rates. De-scaling activity will be most obvious in bathtubs, which have high flow and hot water. You may see milky water with sand-like grit, and possible sediment or iron in the bath tub. The water line supplying fixtures which experience the most use will be cleaned the quickest and will be the first to return to providing you the full benefits you experienced immediately following installation; rarely used fixtures will take longer.
- **The water does not feel as soft.** The absence of the calcium and the presence of sodium bicarbonate makes the water feel slick and slimy. If you miss the slick feeling, add some baking soda (sodium bicarbonate) to your bath.
- **The water spots are more visible.** A water softener replaces calcium with sodium. The water spotting that a traditional water softener leaves behind is a salt haze that wipes off very easily and is far less noticeable than spots caused by minerals. The treatment results in reduced spotting compared to untreated water, but more visible spots than produced by traditional, chemically treated softened water. The mineral spots are much easier to clean than spots from untreated water.
- **Soap curd forms with certain products.** Oil-based soaps like Ivory will react with calcium minerals to form a sticky film. Detergent-based cleaners like shampoos, shower gels, dish soaps, and laundry detergents will react very slightly or not at all. All detergent will work better with treated water, but you will notice very little improvement when using regular bar soap or oil-based products since the minerals are largely still able to react with the fats in the soap to form the curd.
- **There is some mineral silt in the bathtub.** Depending on the water chemistry of your water supply, you may still have some scale deposits in your plumbing system.

If you have a dishwasher:

Generally, the system alters mineral hardness from solution; it does not physically remove the natural minerals from the water. Harsh chemicals, specifically acidic (low pH) detergents or rinse agents, can affect these conditioned minerals. This reduces the desired effect. Also, dishwashers are supplied by the hot water side of a building's plumbing system, so for the first few weeks, the water hardness inside the dishwasher will be higher than normal. For both of these reasons, you will have to adjust the combination and amounts of detergents and rinse agents. Gel packs offer a great alternative since they contain detergents and rinse agents in just the right amounts. This dishwasher detergent has received rave reviews from our customers:

- Lemi-Shine Rinse Agent

Maintenance

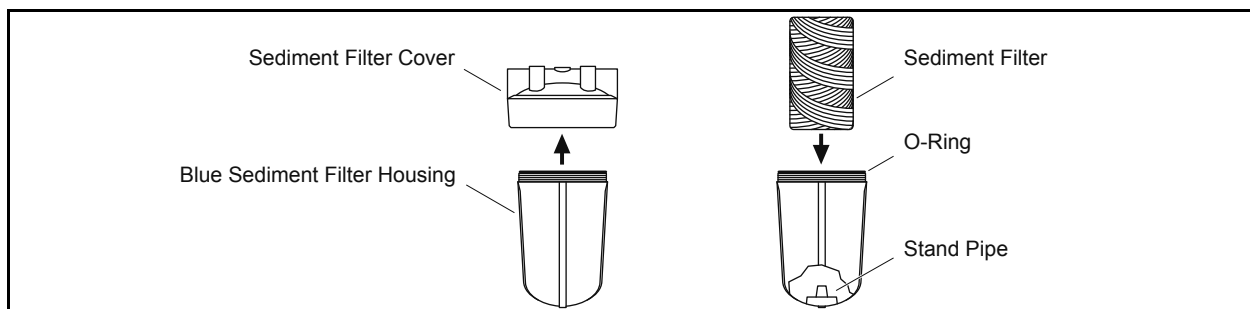
Whole House Water Filter/Conditioner

Your RW10/PS15 Whole House Water Filter/Conditioner requires maintenance after a period of 5 years. Replacement carbon media and instructions can be ordered by calling (844) 663-3078.

Sediment Filter

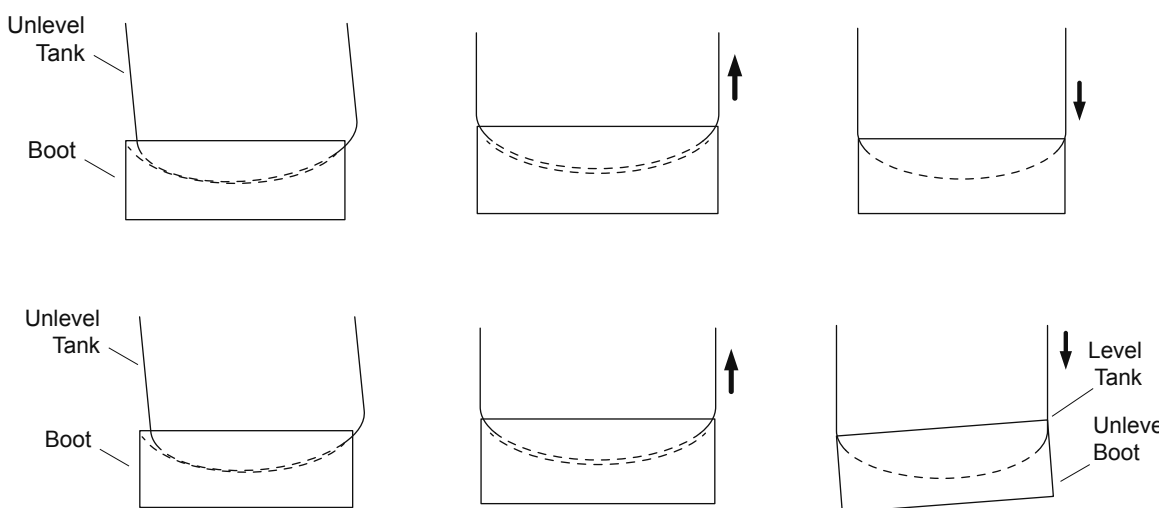
It is recommended that the Sediment Filter be replaced every 6-9 months depending on the amount of sediment present in the water supply. If the system has been working properly and the pressure is slowing, it may be time to change the Sediment Filter. Check the Sediment Filter and replace if necessary.

Replacing the Sediment Filter



1. Turn off the main water supply to the Sediment Filter System and bypass all tanks.
 2. Run a faucet (cold water) inside the house to relieve the pressure. (Leave faucet on)
 3. Unscrew the Blue Sediment Filter Housing clockwise using the supplied Sediment Filter Wrench.
 4. Remove the existing Sediment Filter and discard.
 5. Remove the O-Ring and wipe the groove clean. Lubricate a new O-Ring with a coating of clean silicone grease. Replace O-Ring and press the O-Ring down into the groove with two fingers.
- Note:** This step is important to ensure the proper filter seal. Make sure the O-Ring is seated level in the groove. If the O-Ring appears damaged it should be replaced.
6. Place a new Sediment Filter onto the Stand Pipe in the Blue Sediment Filter Housing.
 7. Screw the Blue Sediment Filter Housing onto the Sediment Filter Cover.
 8. Turn on main water supply slowly to allow the Sediment Filter System to fill with water and relieve air from the plumbing.
 9. Put tanks back in service, out of bypass and close faucet.
 10. Check for leaks.

Troubleshooting

Problem	Solution
Water leaking at the top of the tank around the head.	You may need to turn the head to tighten it. The tank head is pre-installed hand-tight, do not overtighten the head (just turn it snug).
The tank leans to one side or is not level.	If the tank is not level, lift the tank straight up 6 inches and tap it on the ground until the tank stands vertical. The bottom of the tank is round and the boot allows the tank to stand upright.
	
Water pressure is slowing.	It is recommended that the Sediment Filter be replaced every 6-9 months depending on the amount of sediment present in the water supply. If the system has been working properly and the pressure is slowing, it may be time to change the Sediment Filter. Check the Sediment Filter and replace if necessary.
Water appears grey or cloudy.	Water may appear grey or cloudy for the first seven to ten days after installation due to extra carbon dust.
Water pressure is slowing immediately after installation.	High flow rates such as bathtubs, utility sinks, hose bibs, multi-headed showers, body sprayers, or anything that is considered high flow for the first 72 hours should be avoided. If you suspect a carbon blockage of the top basket due to a high-flow situation within the first 72 hours of installation, turn off any running water for at least 10 minutes. This will clear the blockage and you can resume using water at low or normal flow rates.

Warranty

5 Year Limited Warranty

Enviro Water Solutions warrants to the end user ("customer") that its tanks (13" & smaller), valves, in/out heads, bypass's, fittings, and housings ("Covered Items") will be free from defects in material and workmanship under normal use and service for a period of five years. Enviro Water Solutions warrants to the end user ("customer") that its retention tanks and solid-state electronic heads ("Covered Items") will be free from defects in material and workmanship under normal use and service for a period of 5 years. No warranty is made with respect to defects or damaged due to neglect, misuse, alterations, accident, misapplication, physical damage, installation on water quality outside guidelines for system or damaged caused by fire, acts of God, or freezing.**

Limitations and Responsibilities

Enviro Water Solutions obligation to the customer under these warranties shall be limited, at its option, to replacement or repair of Covered Items by these warranties, labor is not covered. Prior to return or repair of Covered Items, the customer must obtain a return goods authorization number from the company and at the company's option, return the Covered Items freight prepaid. Any Covered Item repaired or replaced under these warranties will be returned prepaid standard freight to the original point of shipment. Expedited freight options are available at customer expense.

No warranty is made with respect to defects or damaged due to neglect, misuse, alterations, accident, misapplication, physical damage, or damaged caused by fire, acts of God, or freezing. These warranties apply only to the original registered owner so long as the owner owns the home in which the unit was originally installed. Customer must register their system with Enviro Water Solutions within 90 days of purchase* in order to obtain a warranty. Warranty will discontinue after the unit is removed from the location where it was originally installed. Warranty begins on the date of delivery of product to the customer. Improper maintenance of system (i.e. not replacing filters or media) on time will be considered "neglect". Installation of any system on water conditions outside of or beyond the recommended specs of any system voids any warranty.

Enviro Water Solutions Water Solution gives this warranty to the customer in lieu of all other warranties, express or implied, including without limitation any implied warranties of merchantability or fitness for a particular purpose or treatment of certain water and hereby expressly disclaims all other such warranties. Enviro Water Solutions liability hereunder shall not exceed the cost of the product. Under no circumstances will the company be liable for any incidental or consequential damages or for any other loss, damage or expense of any kind, including loss of use, arising in connection with the installation or use or inability to use the Covered Items or any water treatment system the Covered Items are incorporated into. These warranties are governed by the laws of the state of Florida and may change at any time without notice.

*Failure by California and Quebec residents to complete the product registration form does not diminish their warranty rights.

**For all orders placed on or after June 3rd, 2011.

Manufacturer's Performance Guarantee

The RW10 Whole House Water Filter/Conditioner is guaranteed to perform for 600,000 gallons or (5) years whichever comes first. The PS15 Whole House Water Filter/Conditioner is guaranteed to perform for 1,000,000 gallons or (5) years whichever comes first. The authorized dealers shall be responsible for the repair or replacement of defective media only, labor to replace the media is the responsibility of the purchaser.

Warranty Registration Form

Send in this Warranty Registration Form to validate your warranty.

Warranty Registration Form

Date Item(s) were Received:	Order ID#:	Model:
_____	_____	_____
Dealer Purchased From:		

Model/Serial Number:		

Name: _____		
Address: _____		
City: _____	State: _____	Zip: _____
Email: _____		

Send To:

Enviro Water Solutions
3060 Performance Circle, Suite 2
DeLand, FL 32724
Phone: 1-(844) 663-3078

Plumber's Information (optional)

We like to recommend good plumbers throughout the USA and if you were happy with your installer please give us their information so we can pass it on as a courtesy. Thank you for your time.

Name of Plumbing Company used to install system: _____

Phone #: (_____-_____-_____) of the Plumbing installer

!!IMPORTANT!

Do not use where water is microbiologically unsafe or with water of unknown quality without proper disinfection before or after the filter/softener system.

Product Certifications

	Clack V3007-xx Bypass Fittings – WWQA Gold Seal Certified to NSF/ANSI Standard 44 for material safety and structural integrity only
	U.S. Green Building Council