



Chanson Water USA, INC.

Installation Guide for SCF-3000/SCF-6000

Water Dove Systems will not be ready for full use for 48-72 hours after install. Please plan you installation accordingly.

Product Spec

Specification Description	SCF-3000	SCF-6000
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	7 - 11	

Important Installation Information:

Read these instructions carefully and determine the location of all system components before beginning installation. Check all applicable plumbing for installing the water system. Systems with electronic components cannot be installed outside in uncovered areas.

Water Conditions for Operation

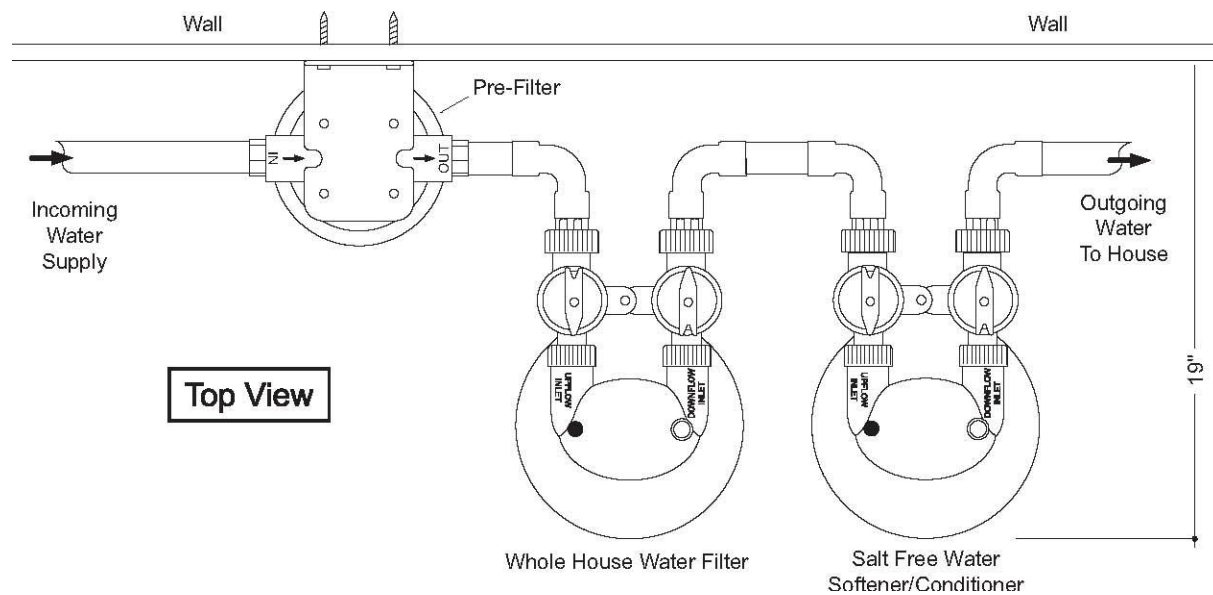
The water should be free of hydrogen sulfide, a dissolved gas with characteristic of smell of rotten eggs hydrocarbons, oils, lubricants, and Phosphates. If this chemical is present it can coat the catalytic surface of the media and interfere with the absorption process. The will need to be removed through pre-treatment.

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. Older homes may have been built in accordance with building codes from decades ago, some of 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.

Included Parts:



Installation Over View:



Pre-Installation

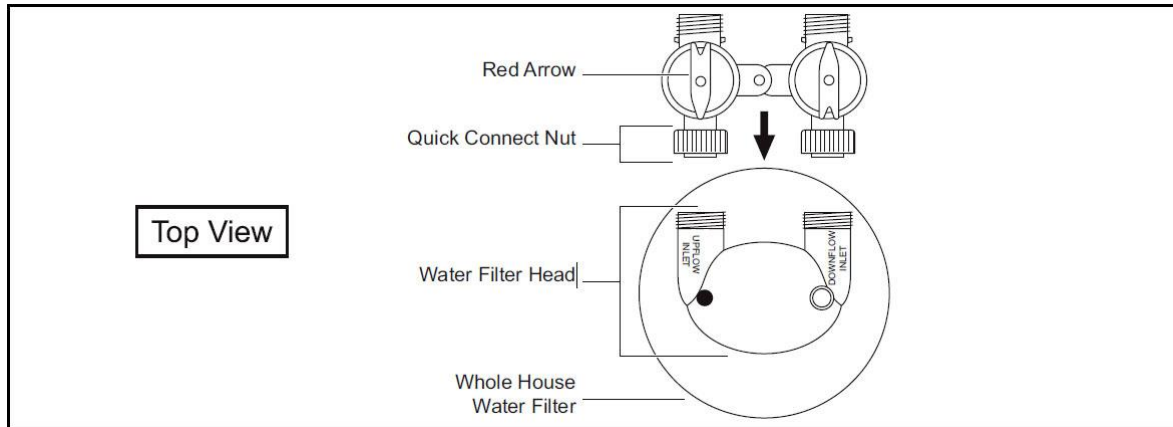
Hose Bib Assembly



Figure 2

Attach the PVC Reducer to the PVC Female Hose Adapter, and attach the PVC Hose Bib to the PVC Reducer.

Bypass Valve Installation:



Chanson Water has completed this step for you. We include these steps in the manual so you are familiar with how to reinstall the tank valves after you have changed the media.

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 both the Chanson Water Dove Whole House Water Filter and Salt Free Water Softener/Conditioner with the unthreaded ends oriented toward the tanks and hand-tighten the Quick Connect Nuts.

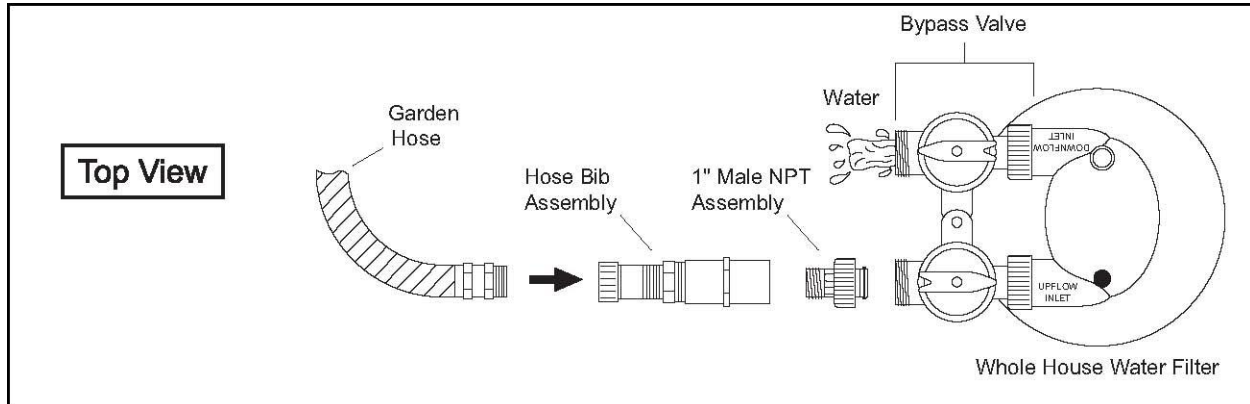
The bypass valve(s) included with this system are designed for multiple Chanson Water water systems. This may result in the arrows on the bypass valve(s) pointing differently than shown. If the arrows on your bypass valve(s) do not match the diagram, remove the red arrows by pulling them straight up,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

Carbon Tank Soak

Important:

Your tank will not be ready for use for a minimum of 48 hours while the carbon soak process takes place. Please plan your installation accordingly.

During flush water will flow out of the “down flow inlet” please perform process in area where water can flow.



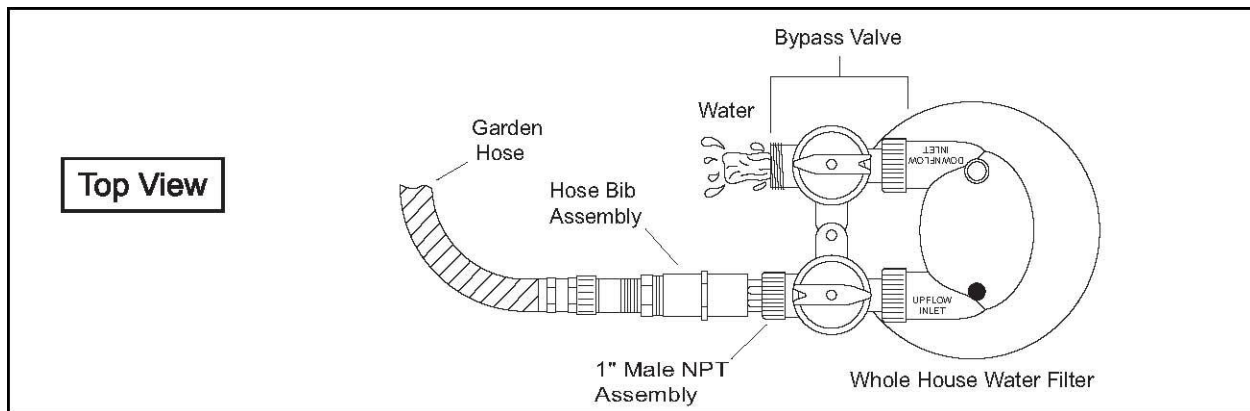
1. Attach garden hose to hose bib assembly.
2. Connect 1" male NPT into hose bib assembly
3. Connect the 1" male NPT assembly to the upflow inlet side of the bypass valve and hand tighten
4. Fill the Water Dove Carbon tank full until water comes out of “down flow inlet” side of bypass valve.
5. Turn off water
6. Remove garden hose from hose bib assembly
7. Allow carbon to soak for 48 hours before full installation

Carbon Tank Wash

Important:

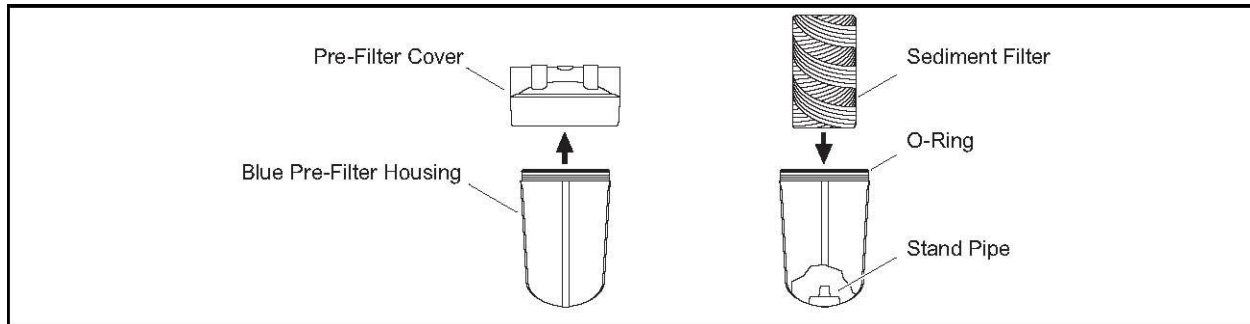
Do not perform carbon tank wash until 48 hour soak period is complete.

During flush water will flow out of the “down flow inlet” please perform process in area where water can flow freely.



1. Attach garden hose to hose bib assembly.
2. Slowly turn on the water 1/4 turn for the entire wash procedure
3. Run water thru the “upflow inlet” side of the bypass valve for 15-30 minutes or until the water flowing from the “downflow inlet” is clear
4. Turn off water
5. Remove the hose bib assembly and the male 1” NPT assembly from the upflow inlet side and attach to the “downflow” inlet side of the of the bypass valve.
6. Run the water thru the “downflow” inlet until it runs clear (at least one minute)
7. Turn off water
8. Remove hose bib assembly and the male 1” NPT assembly from the bypass valve and disconnect the garden hose.

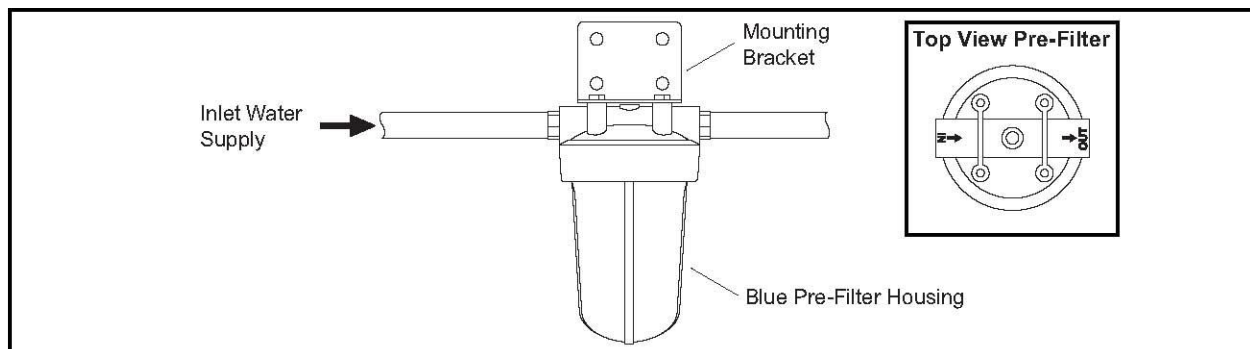
Installation of 5 micron pre-filter assembly



1. Unscrew black cap from blue pre-filter housing
2. Remove wrapping from 5 micron sediment filter (sometimes filters come unwrapped)
3. Place filter onto extruding "stand pipe" at the bottom of the housing
4. Screw together big blue filter housing and black cap until hand tight

In most cases this has been done for you. Chanson water will load the pre-filter as a courtesy to your customers. The above directions can be followed when changing out the pre-filter annually.

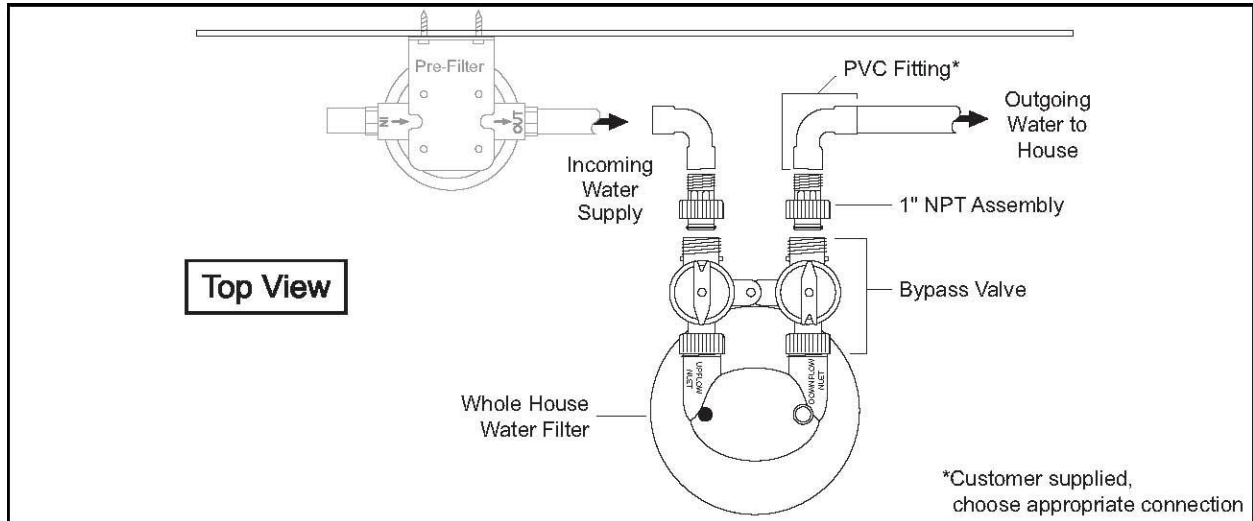
Pre-filter Installation



1. Shut-off the main water line.
2. Attach the white mounting bracket (installed on the black pre-filter cap) to the desired place on the wall. Remove the bracket from the black pre-filter cap before installing on the wall.
3. After white bracket is installed re-attach water dove 5 micron pre-filter to the white bracket utilizing the supplied washers and bolts.
4. If you must disassemble the black cap from the blue housing please make sure to lubricate the housing o-ring before re-installing. Plumbers grease can be utilized as well as petroleum jelly or olive oil. If filter still leaks take apart and re-lube, do not over-tighten
5. Determine the size of your inlet water supply line. PVC reducers may be needed to fit the 1" pre-filter system. A shut-off valve is recommended for installation.

Whole House Water Filter Tank Installation

Please make sure that the tank is standing vertical. If tank is not vertical please lift up 4-8" and tap on the ground until the tank stands vertical.

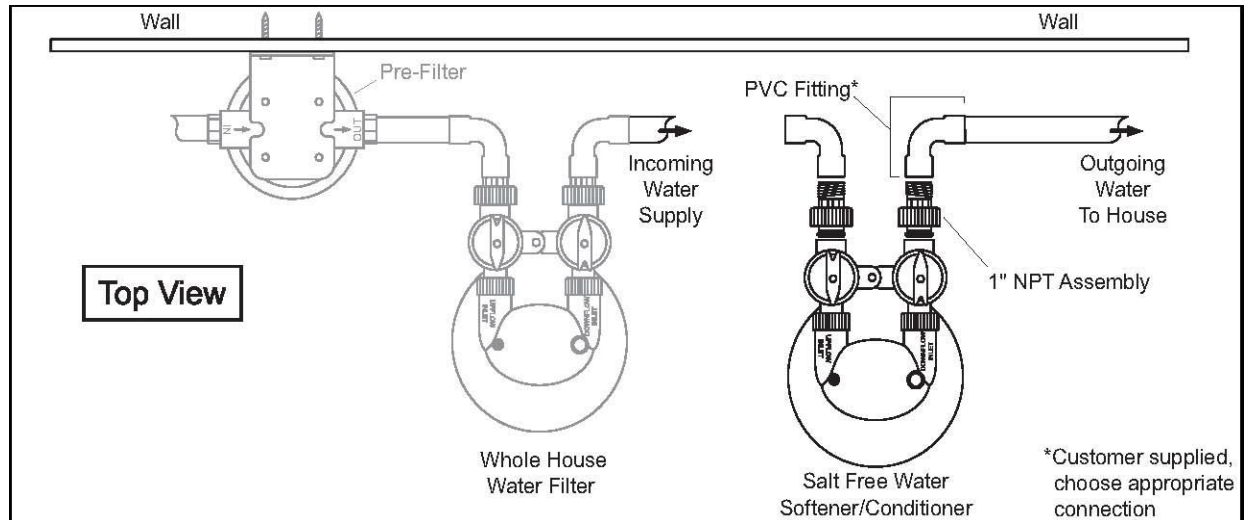


1. Determine the appropriate plumbing size for your home's deliver system and use the proper fittings to adapt the 1" fittings that come with the system
2. Do not over tighten any pieces during installation process. The pieces are made to seal completely with minimal tightening.
3. The 1" NPT fitting is designed with a 1/4" give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

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1. Install the elbow fitting onto the upflow and downflow inlet sides of the Bypass Valve.
 2. Connect the incoming water supply from the Pre-Filter System to the fitting on the upflow inlet side of the Bypass Valve.
 3. Connect the outgoing water supply to the downflow inlet side of the Bypass Valve.

Whole House Salt-Free Conditioner

Please make sure that the tank is standing vertical. If tank is not vertical please lift up 4-8" and tap on the ground until the tank stands vertical.



1. Determine the size and material of your incoming water supply line from the Whole House Water Filter and choose the appropriate fittings required to connect it to the Bypass Valve.
2. Do not over tighten any pieces during installation process. The pieces are made to seal completely with minimal tightening.
3. The 1" NPT fitting is designed with a $\frac{1}{4}$ " give to allow for proper pipe alignment. It will not leak and is intended to have some flexibility.

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1. Install the fitting onto the upflow and downflow inlet sides of the Bypass Valve. Follow the diagrams supplied with the fitting.
 2. Connect the incoming water supply from the Pre-Filter System to the fitting on the upflow inlet side of the Bypass Valve.
 3. Connect the outgoing water supply to the downflow inlet side of the Bypass Valve.

Soaking the Salt-Free Conditioner Media

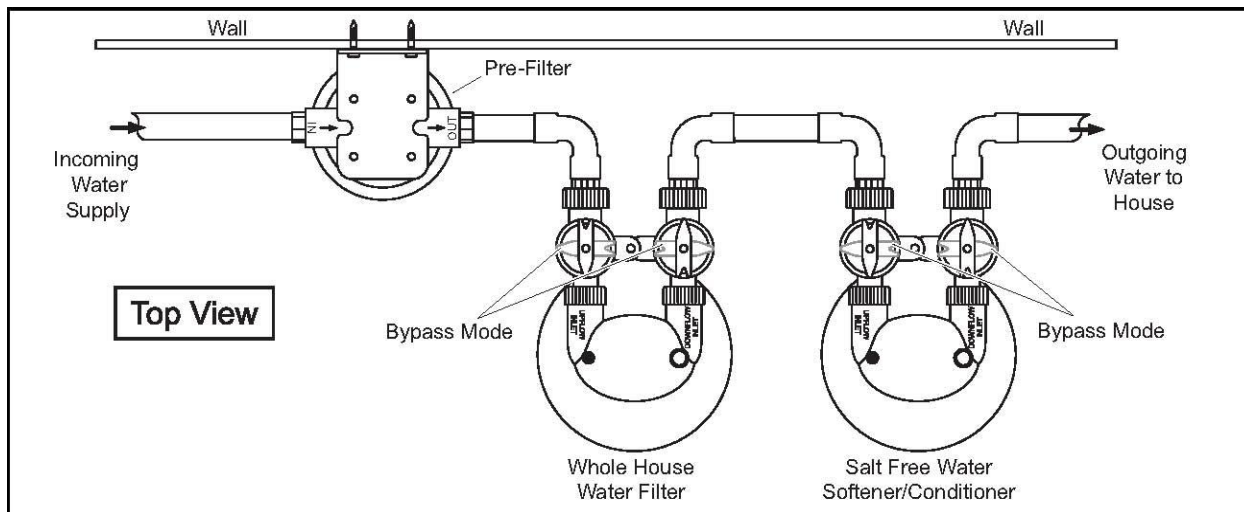


Figure 10

The Water Dove Carbon system must be in bypass mode the entire flush time.

1. Open the closest water faucet to the Dove salt-free conditioner.
2. Turn on the water at the main shut-off valve for your home, allowing the tank to fill with water. Any air in the system will be pushed out to the open faucet from step #1.
3. Turn the valves/ handles on the valves in "bypass" mode. This will allow water to be restored to the rest of the home and allow the media to soak.
4. Allow media to soak for at least 60 minutes

Media Flush and Condition

1. After conditioning media has soaked for 60 minutes
2. Turn on the main water supply if you have turned off, or turn the valves from bypass mode back to their original position "on"
3. Flush the system by opening every faucet in your home or by turning on your bathtub. Leave open for 5 minutes.
4. Your water may have a milky appearance to it. This is ok as the calcium carbonate sediment will be flushing.
5. Rinse the system by closing all of the faucets and/or bathtubs. Turn on only one faucet 1/4 turn about 1/2 gallon per minute. Let run for 60 minutes.
6. Turn whole house water filter valves from by pass to the "on" position

To complete Installation:

1. Check for leaks around plumbing and tanks
2. For the next 72 hours avoid high flow rates of water. High flow rates can clog the carbon screen
3. Water may have slight grayish appearance for 10 days to 2 weeks. This is a result of the fine carbon sediment passing through the system. This normal and will dissipate over time.
4. It is recommended that you remove any faucet aerators in your house for the next 72 hours after install because they can become clogged with sediment.

What you should expect with your new salt-free water conditioner

1. This is the first water softener/ conditioner ever installed at this location.

You will notice the benefits of soft water for the first few days. As the S-3000/6000 starts to work it will begin to break down the mineral deposits on your existing pipes. As a result you will notice the effects of "soft" water dissipating. What is happening is the system is cleaning out your water delivery systems so you will actually get hard water. During the first two weeks after installation you will notice:

- A. **Reduced effects of soft water.** This maybe particularly evident when hot water is dispensed. The hot water heater will also be experiencing cleaning as well.
- B. **Mineral Flakes:** Depending on how much build-up has attached to the inside of your plumbing you may notice rather large flakes accumulating in the aerators and screens on your home appliances. During the first few weeks of the Water Dove's installation you may have to clean these areas regularly. You will also see silt like sediment in bathtubs and in sinks.

2. A salt or potassium chloride softener was installed previous to the Water Dove system being installed

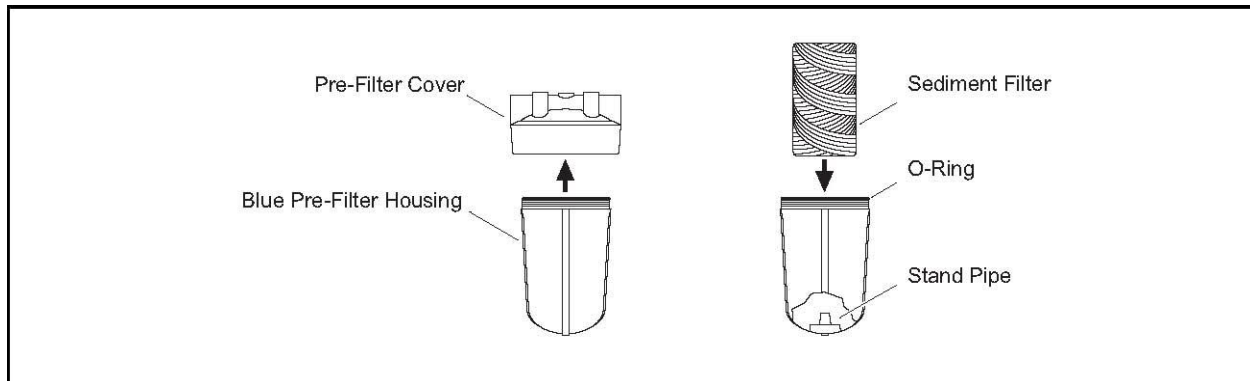
Salt water systems perform something called and "ion exchange" where they trade out the calcium and magnesium in the water with salt or potassium chloride. Our Water Dove System changes the hard water mineral in the water so that they can no longer stick.

- A. The water may not feel as soft or slimy. This feel is the absence of calcium and the addition of salt. You will get used to the new "softness".
- B. Water spots are more visible. Again, because with a traditional salt system the minerals are being removed completely you will only notice a small amount of spotting a result of the remaining salt present in the water. With the Chanson Dove system the minerals are still present they just will not stick. So you will notice spotting, but it will wipe away with a soft cloth.
- C. If you have a dish washer you may notice more build-up and spotting on your dishes in the beginning. This is because the Water Dove system is cleaning out the pipes and water delivery systems in your home. You may notice large chunks of Calcium in your dishwasher, do not be alarmed this is one of the positive effects of using the Dove system. It is cleaning Calcium out of the lines
- D. Clear glass shower doors. Years of hard water build-up on shower doors can damage the glass, We recommend cleaning the doors with CLR or Limeaway to clean any build-up off of the doors then using Rain-X to fill any pitting or damage. This will also help the water bead and slide down the door.

Maintenance and Care of your Water Dove System:

The Chanson Water SCF-3000 and SCF-6000 medias will last 5 years. After this time they will need to be replaced. The Chanson sediment pre-filter will need to be replaced every 9-12 months depending on your water supply.

These can be purchased from www.chansonwater.com they are sold in packs of 4 for \$59.99.



When changing out the sediment pre-filter please be sure to lubricate the sealing o-ring. You can use plumbers grease, petroleum jelly, or olive oil.

1. Turn off the col water supply to the Water Dove system, and turn the tank valves in bypass mode.
2. To relieve water pressure turn on a nearby water faucet.
3. Using the black wrench included with your system unscrew the blue housing from black cap. Save the o-ring we do not provide these unless the original has torn or ruptured.
4. Remove the o-ring and wipe clean. Lubircate o-ring once more and reinstall onto blue housing.
5. Rinse any remaining sediment from the inside of the big blue housing that may have collected.
6. Place new sediment filter onto extrouding stand at the bottom of the housing.
7. Screw the blue housing back onto the black pre-filter cap. Tighten until snug
8. Turn on main water supply
9. Check for leaks

Troubleshooting

1. Pressure is dropping during carbon wash.

Turn off water for 30-60 minutes to let the carbon settle to the bottom of the tank and off of the screen. Turn system back on slowly if low pressure continues put tank into bypass mode and let sit for 72 hours. There is air trapped in the tank that needs to be released. After 72 hours have passed continue carbon washing by slowly opening the valves and letting water return to the tanks.

2. Water leak at the top of the tank. Around the head.

Make sure that tank valve is screwed securely onto the head of the leaking tank. The valves come pre-installed on the Water Dove systems, but we always recommend checking before installation because of possible loosening during shipping.

3. The water dispensing from the tank is gray

This is not cause for concern. The carbon sediment from the whole house water filter can continue to find its way into the water for about 2 weeks after installation and will subside relatively quickly.

4. Water pressure is slowing

We recommend that that 5 micron sediment filter be changed every 9-12 months. If you are noticing slowing pressure please check your sediment filter.

We have tried to cover all of the major questions or concerns in this installation guide. We recommend that a licensed plumber install any Chanson Water Dove whole house system product. For any questions or concerns please contact Chanson Water.

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