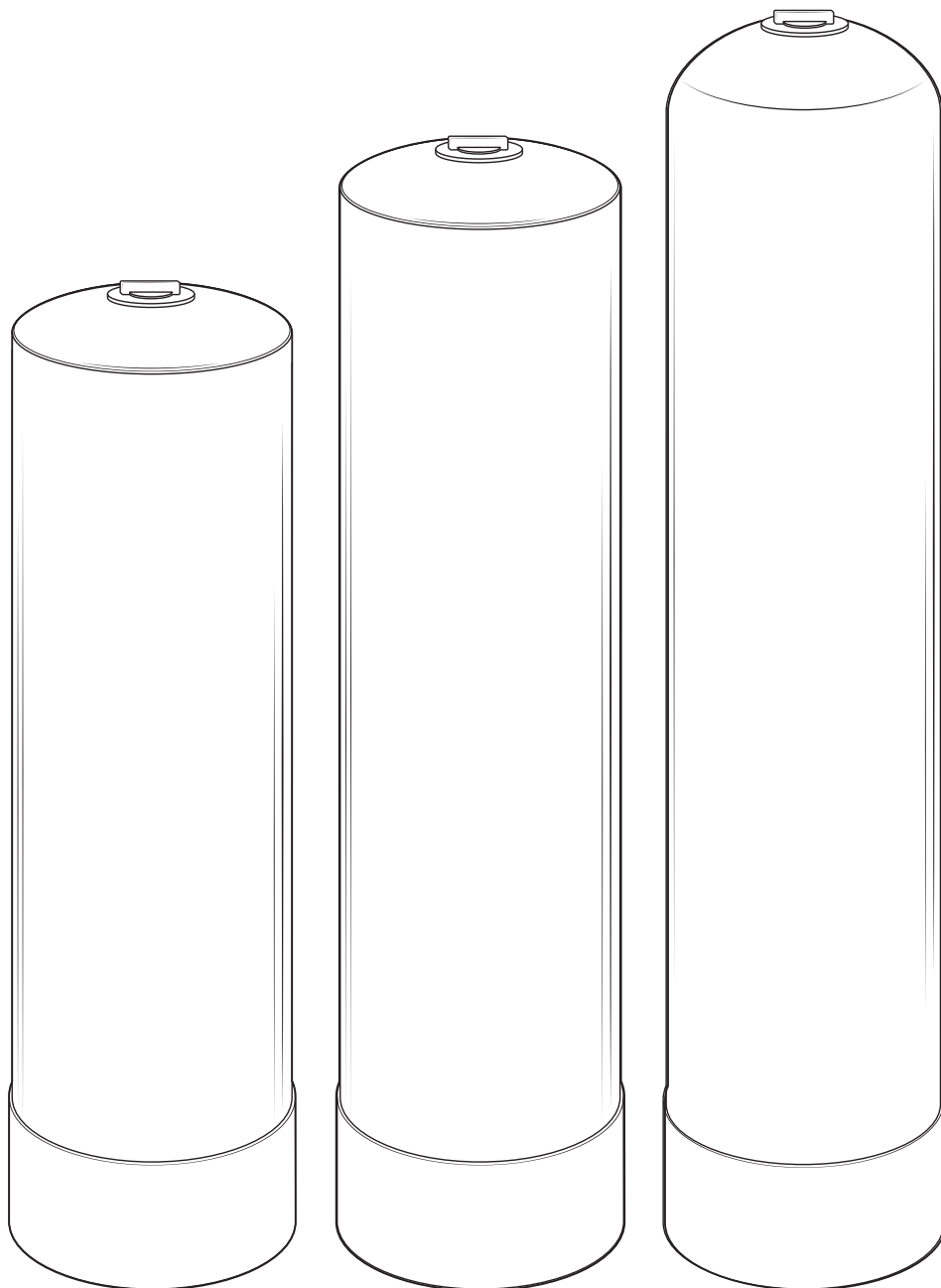




Whole House Water Conditioning Systems



Models: K150-021, K150-022, K150-023

Introduction

Thank you for your purchase of the Radiant Life Water Conditioning System. We highly recommend opening all packages of the shipment and verifying that all required parts have arrived and are inspected for damage **before** contacting an installer and scheduling an appointment. This manual covers the installation and operating instructions for the following models:

- K150-021 (10 GPM)
- K150-022 (12 GPM)
- K150-023 (15 GPM)

We recommend contacting our Water Service Department (888-593-9595 option 2) once you have scheduled an installation appointment so that we can ensure one of our technicians are available if needed.

Overview

Our Whole House Conditioning Systems are designed to provide years of protection from scale build up and reduce or remove existing scale resulting from hard water supplies. This unit is not a water softener. Our conditioners prevent and reduce existing scale by creating microscopic sized crystal structures that calcium and magnesium ions attach to and subsequently will not adhere to pipework, plumbing fixtures or water using appliances.

Unlike water softeners which require salt to periodically “regenerate” or clean the filtration media, our conditioners require no additives or chemicals to keep the unit functioning. The conditioner will not remove calcium or magnesium minerals from your water. The water in your home will still contain these beneficial and essential minerals and is safe to drink.

Paired with our Whole House Water Filtration Systems (i.e.: Series 2, 4 or 6), the conditioner should be installed at the point of entry (POE) where the water enters your home whereby it can treat your entire home for both hot and cold water.

Note: Refer to the Whole House Water Filtration System manual for installation instructions before installing the conditioner.

We recommend using phosphate free cleaning products to achieve maximum benefit from this system when doing laundry and washing dishes. Many new products are now available at local grocery chain food stores in your area.

Benefits of a Salt Free Conditioner System

- No salt
- No chemicals
- Minimal maintenance
- Retains essential minerals
- Protects water using appliances
- Simple installation
- Takes very limited space
- Compatible with all On-site/community waste water treatment systems
- Water quality is enhanced

Important Safety and Installation Information

Exposure of the filters to freezing temperatures (32°F, 0° C) or temperatures exceeding 110°F (37.8° C) may damage the tank and cause the system to malfunction. Always install the tank where the temperature is above freezing and below 110°F (37.8° C). **Insulate the system and plumbing when installed outdoors or in extreme climates. It is imperative that the tank not be exposed to extreme temperature swings that can cause expansion and contraction, which may result in cracks in the tank. If left unprotected, it may affect the validity of your warranty.**

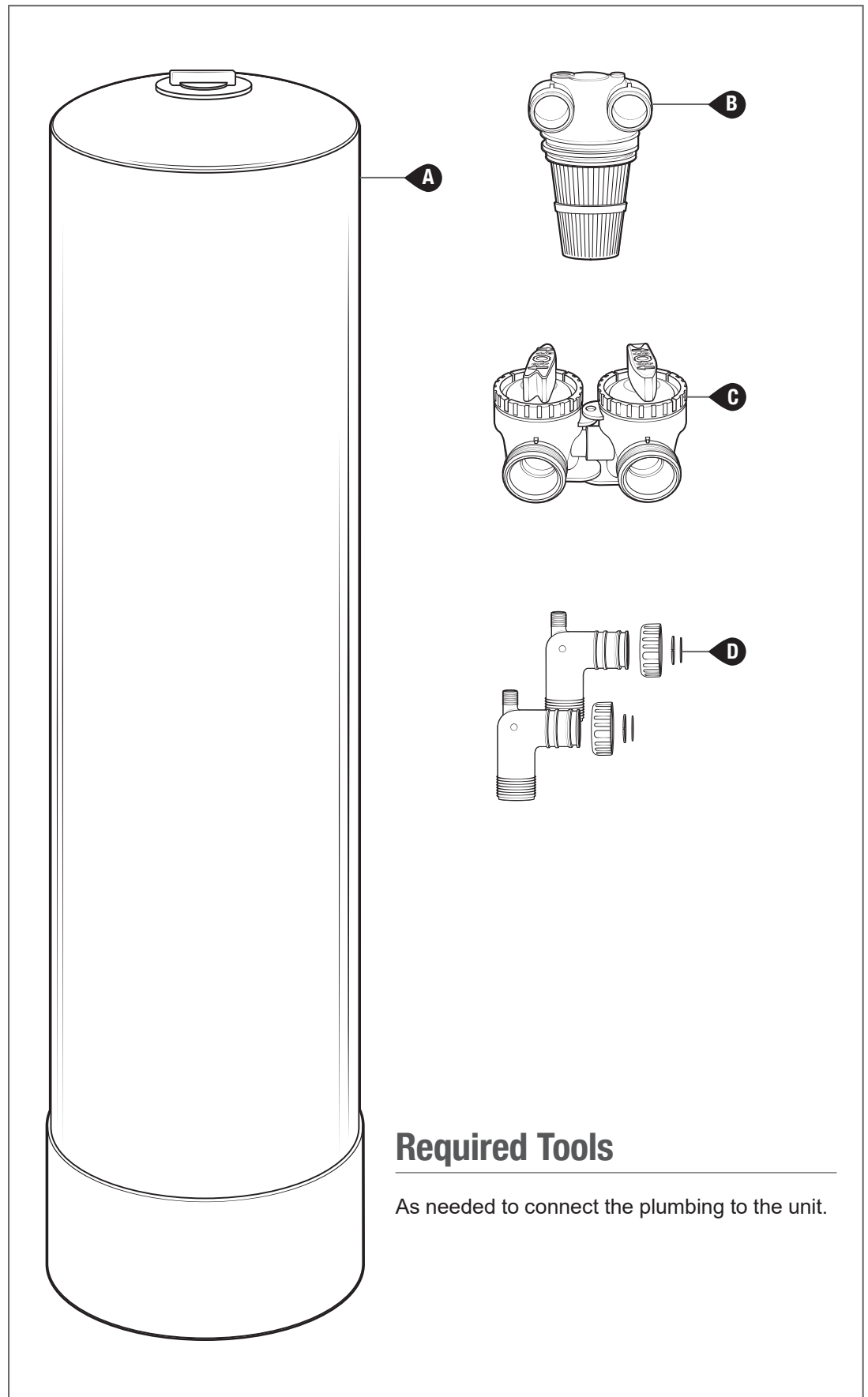
High water pressure may cause plumbing leaks and potentially damage the Water Filtration System. The maximum recommended water pressure is 80 psi. If the pressure exceeds 80 psi a pressure reducing valve must be installed.

Installation and use of the system must comply with all state and local plumbing codes. If necessary, contact a local plumber for advice or help with installation.

Product Components

Check that the following parts are included in your package(s). Inspect all parts for damage.

- A.** Pre-loaded water filter tank with cap
- B.** Tank head with upper basket
- C.** Bypass valve
- D.** Installation elbows



Required Tools

As needed to connect the plumbing to the unit.

Installation

Important! Failure to follow these instructions, or use of parts other than genuine Radiant Life components, will void the warranty. The Water Conditioning System media is adversely affected by chlorine. If you have purchased a Radiant Life Whole House Water Filter System, you **must** have the filter installed in front of the Water Conditioning System to remove chlorine. Failure to remove chlorine will void the warranty.

Note: Due to the amount of area inside the tank required for fluidization, this tank contains the required amount of media based on water hardness and flow requirements. It is partially filled with media and contains approximately 0.5 gallons of water inside the unit to protect the media from drying out during the shipment and storage of the system prior to use. This also alleviates pre-soaking the media prior to placing the system into service, eliminating the need for a lengthy installation process.

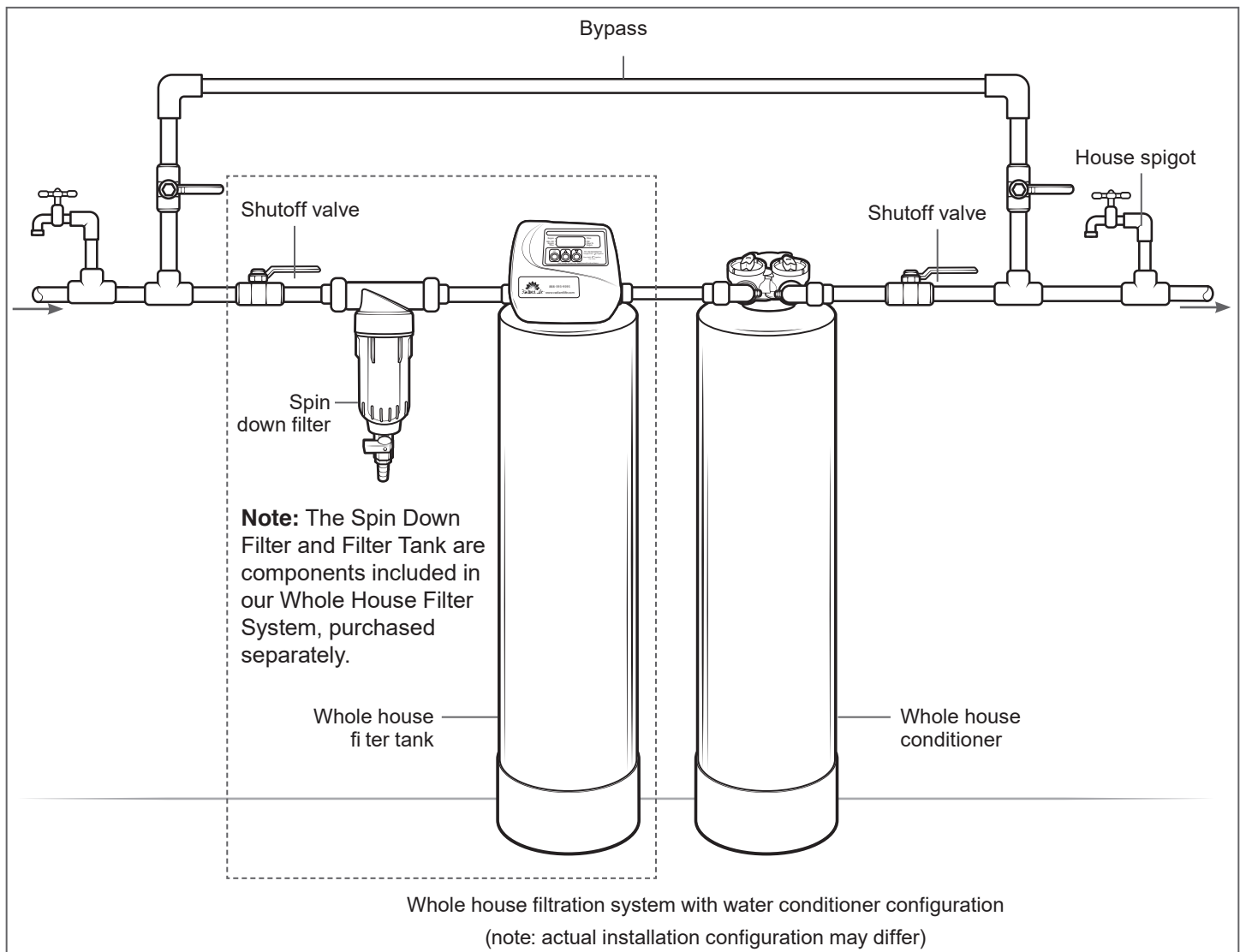
Step 1 Pre-Installation

1. Open all the packages and verify the parts against parts shown in the Parts section.
2. Inspect all parts for damage.

Note: If you purchased the Conditioner along with one of our Whole House Water Filtration Systems, the Conditioner is installed **after** the Spin Down Filter and Filter Tank included with the Whole House Water Filtration System.

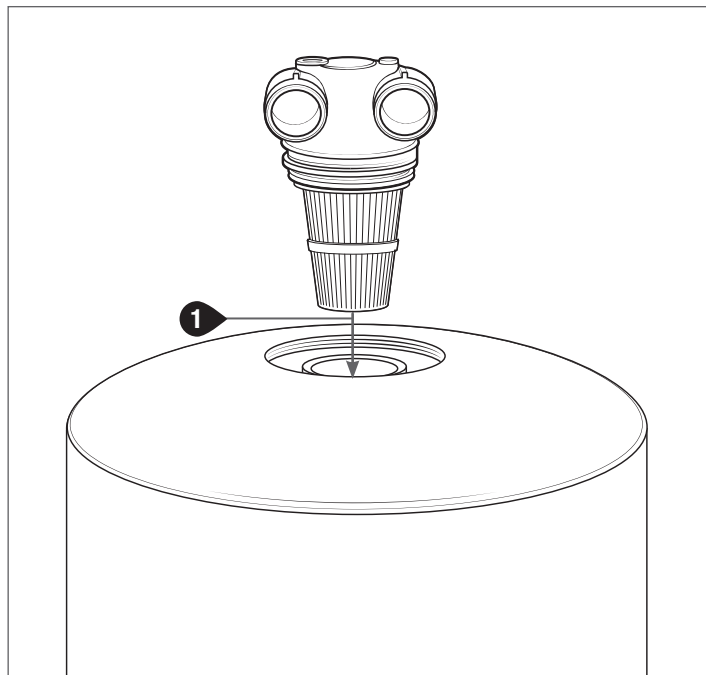
We also recommend having your installer use some type of bypass set up in case maintenance/repair is needed on the system.

3. Turn off the water supply to the house.



Step 2 Attach the Tank Head to the Filter Tank

1. Place the Tank Head (with Upper Basket) over the Riser Tube in the Filter Tank.
2. If necessary, gently tap on the Tank Head until the male threads on the Tank Head meet the female threads on the Filter Tank.
3. Attached the Tank Head to the Filter Tank by rotating it clockwise. Firmly, hand tighten the Tank Head to the Filter Tank until completely sealed. **Note:** If “hand tight” does not completely seal the joint between the tank and Tank Head, watch the following video showing one method to secure the Tank Head to the Filter Tank: <https://youtu.be/ZGgVOWJem6k>

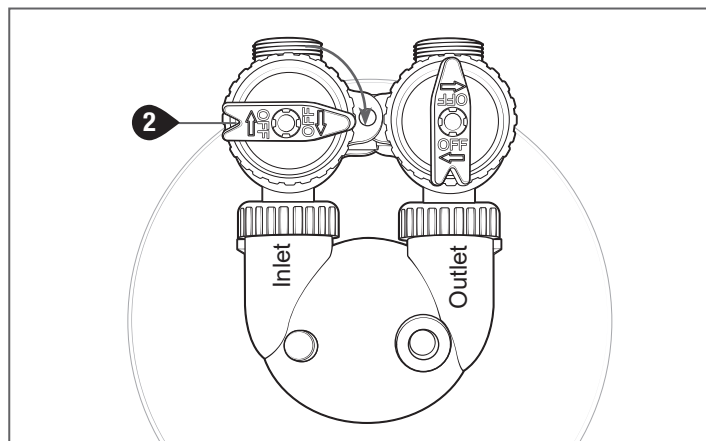
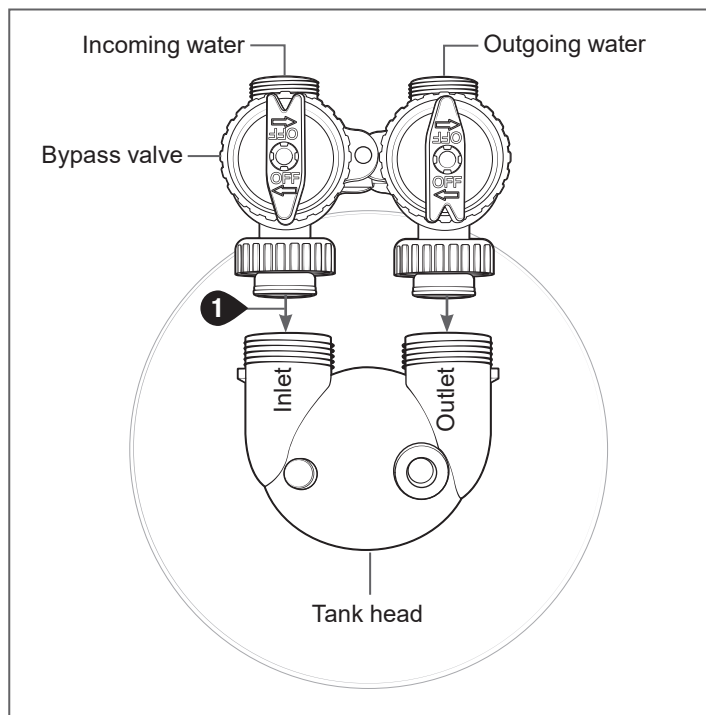


Step 3 Attach the Bypass Valve to the Conditioner

1. Push the Bypass Valve into the head on the conditioner. Fasten using the attached knurled nuts.

Note: The Bypass Valve will only connect to the system in one direction. The system is designed to operate in a **UPFLOW** configuration. It is most important for proper installation that the incoming water supply is connected to the **INLET** labeled side on the unit and the outgoing water supply to the home is connected to the **OUTLET** labeled side on the unit.

2. Place the Bypass Valve in the **SHUT OFF** position.

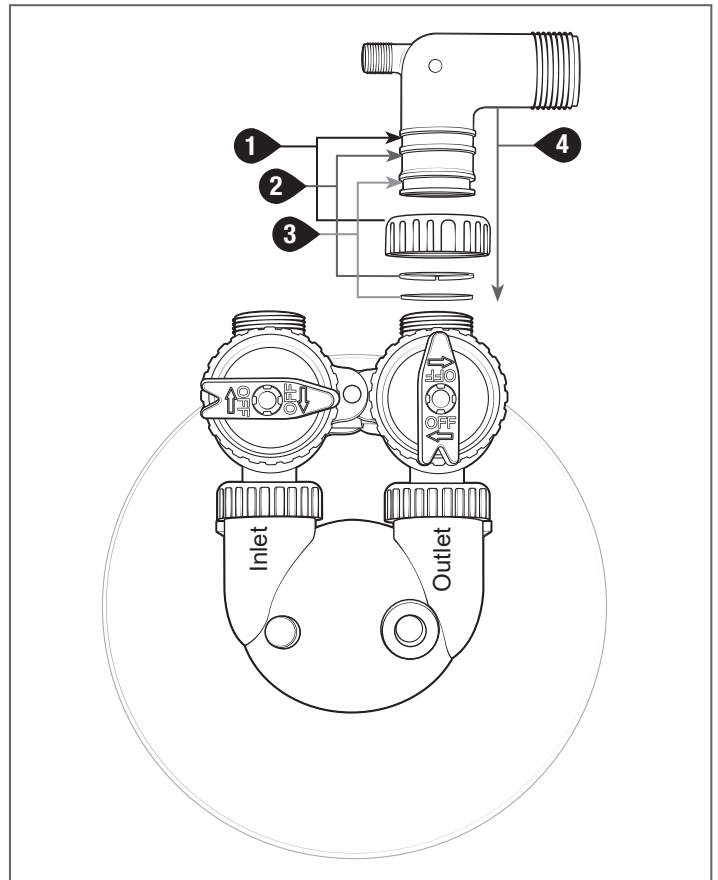


Step 4 Attach the Installation Elbows

1. Place the knurled nut onto the Installation Elbow.
2. Place the white snap-ring onto the Installation Elbow.
3. Place the black o-ring onto the Installation Elbow.
4. Insert the Installation Elbow assembly into the inlet port on the Bypass Valve. Fasten the Installation Elbow to the Bypass Valve using the knurled nut.

Note: The Installation Elbow can be rotated in any direction for ease of installation.

5. Repeat steps 1–4 for the inlet port.

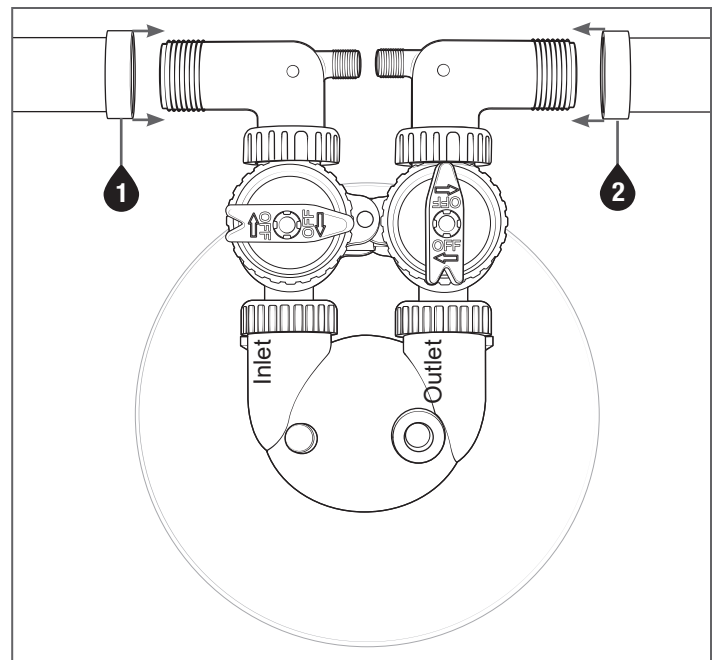


Step 5 Connect the Water Supply

Important! If you are installing the Conditioner with our Whole House Water Filter System, ensure that the filter tank has been thoroughly flushed **before** connecting the outlet of the filter tank to the inlet of the conditioner tank.

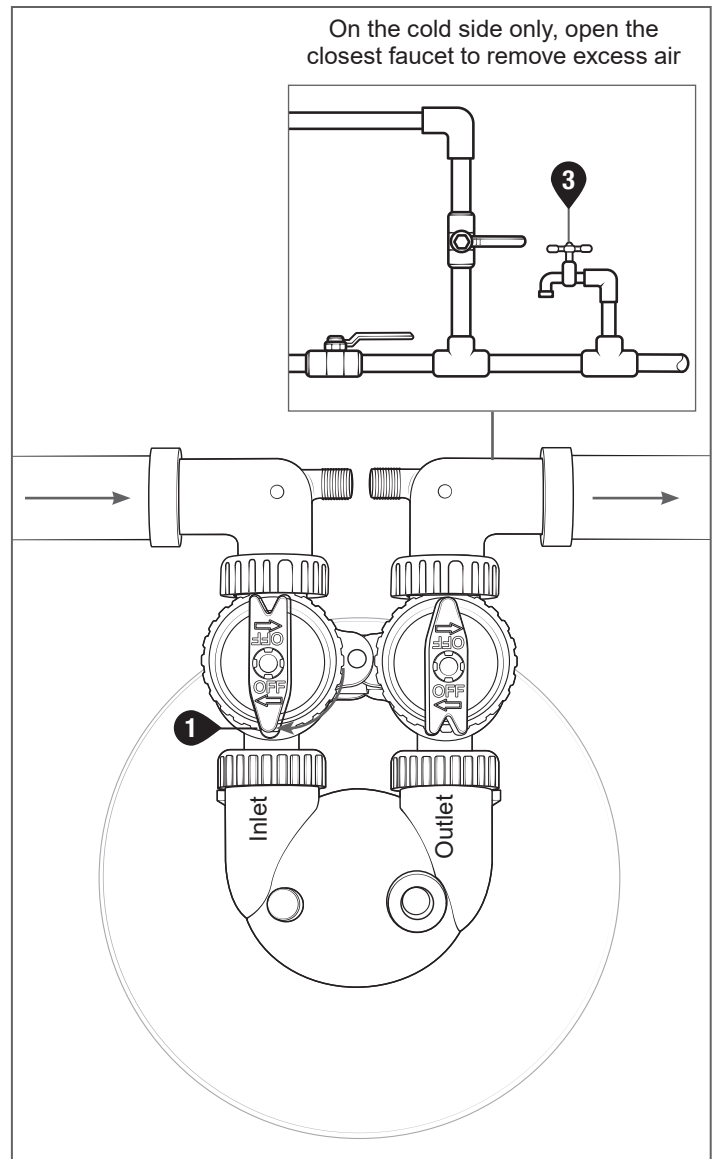
Ensure that the conditioner head is securely tightened to the tank prior to attaching to the water supply. If not secure, leaking may occur between the tank and conditioner head.

1. Connect the plumbing to the inlet side of the system.
2. Connect the plumbing to the outlet side of the system.



Step 6 Activate the System

1. Turn on the water supply to the house.
2. Slowly turn the inlet side of the Bypass Valve to the NORMAL OPERATION position.
3. Open the closest faucet to the system COLD SIDE ONLY to expel the air in the system.
4. Check for leaks and repair as necessary.



Bypass Valve Operation

The bypass valve is typically used to isolate the control valve from the plumbing system's water pressure in order to perform control valve repairs or maintenance. The WS1 bypass valve is particularly unique in the water treatment industry due to its versatility and state of the art design features. The 1" full flow bypass valve incorporates four positions including a diagnostic position that allows service personnel to work on a pressurized system while still providing untreated bypass water to the facility or residence. It's completely non-metallic, all plastic (Food Grade/BPA Free) design allows for easy access and serviceability without the need for tools.

The bypass body and rotors are glass filled Noryl and the nuts and caps are glass filled polypropylene. All seals are self-lubricating EPDM to help prevent seizing after long periods of non-use. Internal O-rings can easily be replaced if service is required.

The bypass consists of two interchangeable plug valves that are operated independently by red arrow shaped

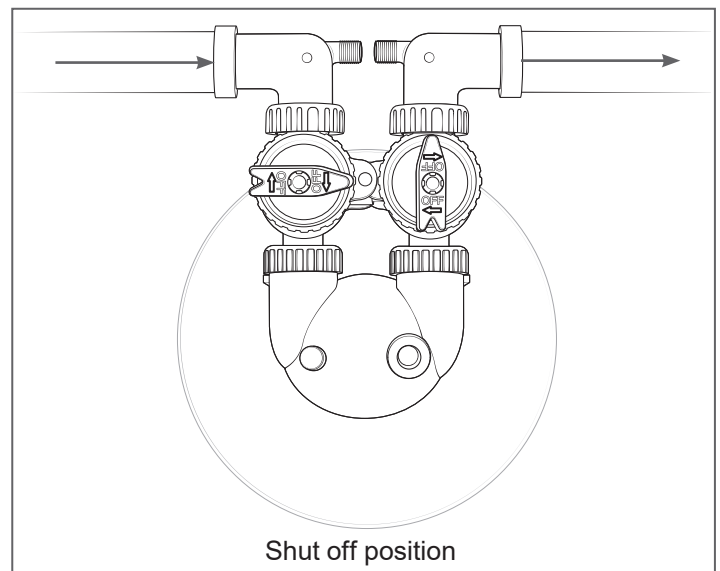
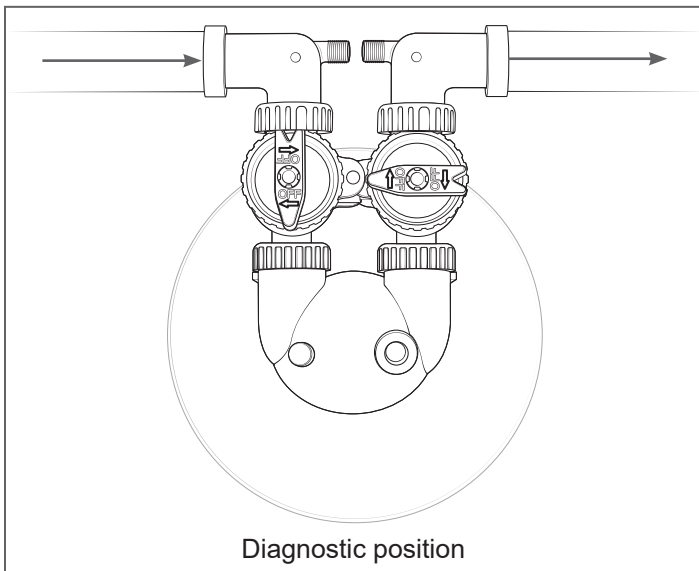
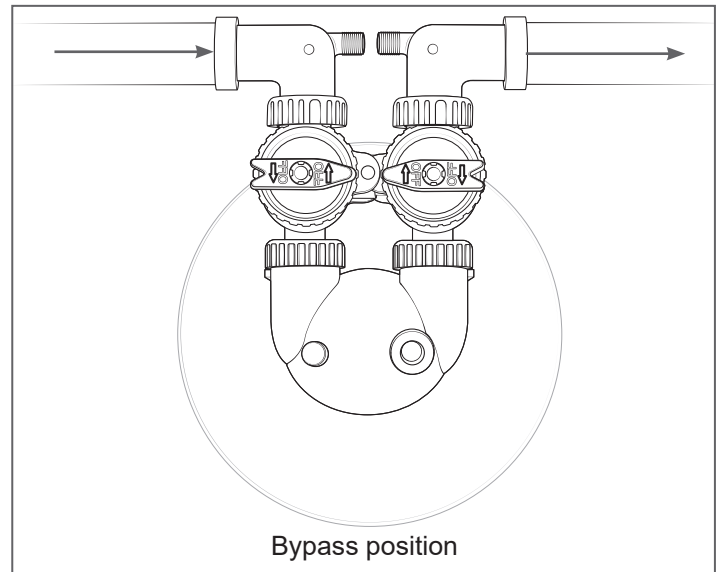
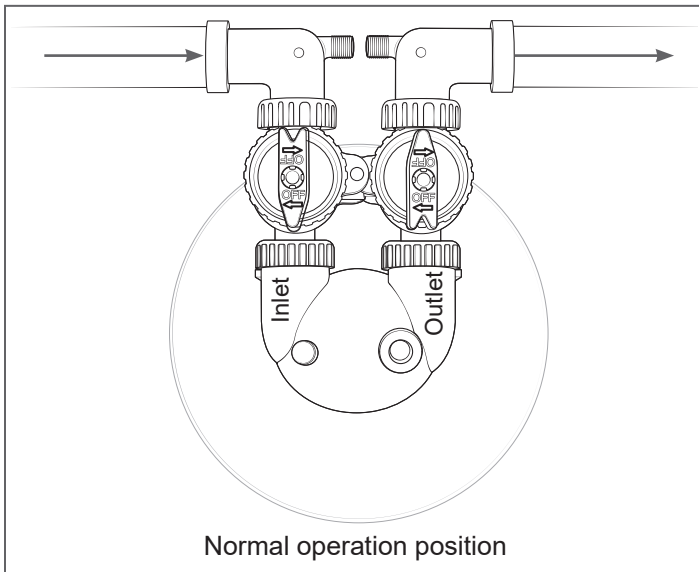
handles. The handles identify the flow direction of the water. The plug valves enable the bypass valve to operate in four positions.

Normal Operation Position: The inlet and outlet handles point in the direction of flow indicated by the engraved arrows on the control valve.

Bypass Position: The inlet and outlet handles point to the center of the bypass, the tank is isolated from the water pressure contained in the plumbing system. Untreated water is supplied to the plumbing system.

Diagnostic Position: The inlet handle points in the direction of flow and the outlet handle points to the center of bypass valve, system water pressure is allowed to the tank and the plumbing system while not allowing water to exit from the tank to the plumbing.

Shut Off Position: The inlet handle points to the center of the bypass valve and the outlet points to the direction of flow, the water is shut off to the plumbing system.



What to Expect, Maintenance, and Tips

Once installed and in use, the Water Conditioning System will begin to slowly break free existing scale buildup in the plumbing and fixtures, which can result in a noticeable white residue. This residue is easily removed when wiped with a wet cloth or sponge. Aerators/screens on sink faucets, shower heads, and appliances may need to be removed periodically to clear particles that are too large to pass through them. There is no predictable timeframe to descale existing pipes and fixtures. This will depend on the age of the plumbing and water conditions.

Hot Water Heater

After one week of use, we highly recommend draining the hot water heater to remove any loosened deposits. After another 30-60 days of operation, drain the water heater again to remove any scale deposits that may be resting in the base of the tank. Depending on water conditions, annual draining of the hot water heater may be necessary. Refer to the manufacturer's recommendations for hot water heater maintenance.

Dishwashers

Phosphate based detergents may cause a white film on glassware. If this occurs, switching to a non-phosphate based detergent such as LemiShine™ or Seventh Generation® may eliminate this problem.

Note: Use the highest heat selection for the water temperature and turn off the heat drying operation to prevent residue from adhering to and possibly damaging cookware or the appliance.

Sinks and Fixtures

Water that is allowed to evaporate on surfaces may cause visible spots. These spots are easily removed when wiping with a wet cloth or sponge. No chemicals or scouring agents will be necessary.

Glass Shower Doors

This Water Conditioning System will not remove pre-existing water spots from glass. Hard water when left on glass will etch and damage the glass surface, leaving a white spot that will need to be removed with special calcium and lime removers. We suggest cleaning the glass with CLR® until all spots are removed. Then apply a coat of RainX® to the glass doors. RainX® will fill the open pores of the glass to assist in preventing further damage and cleaning.

Bathing

Soaps and shampoos lather well in conditioned water. As a result, less soap may be needed. Modern liquid-based soaps offer the best results over traditional bar soaps. Consumers who have switched from a salt-based system to a salt-free system will see similar results in laundry benefits and soap lathering effects. The conditioned water will not produce the smooth, film-like texture on your skin that traditional salt-based water softeners create.

Media Replacement

The Conditioning media is typically changed every 3-5 years, but can last longer. Change intervals will depend on the incoming water conditions and volume treated. Please contact Radiant Life technical support to obtain replacement options.

Warranty

Warranty Scope

Radiant Life warranties to the original purchaser that the Water Conditioning System will be free from defects in materials or workmanship in manufacturing except as noted below. During the Warranty Period and subject to the limitations and exclusions set forth below, Radiant Life will, at its option, replace the product or refund the product purchase price if the product fails to satisfy this Limited Product Warranty. No labor to install, test or replace components is covered under this warranty.

Warranty Conditions

The product was installed and operated within the operating conditions specified in the installation manual. The individual invoking the warranty is the original purchaser of the Water Conditioning System.

The system has been properly maintained, according to the Instruction and Owner's Manual. The amounts of impurities present in the local water supply may require that the media be replaced on a more frequent basis.

What is not Covered

No warranty is given as to the service life of any filter or media as this will vary depending on incoming water quality and volume of water treated.

This warranty does not cover filters that were not installed according to the instructions provided with your system, operated incorrectly, abused, or improperly maintained.

This warranty also does not cover the following items:

- Performance due to water conditions
- Incidental or consequential damages caused by failure of the product
- Labor costs to install or replace the filters, media, or system
- Damages caused by fire, flood or acts of God
- Damage from non-potable water supplies
- Damages caused by any person

This warranty is voided if the product is not installed with genuine Radiant Life components and in accordance with the provided instructions. This includes, but is not limited to, media, filters, valves, and tanks.

Limitations and Exclusions

Except as otherwise expressly provided above, Radiant Life makes no warranties, expressed or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose, to any person. This Limited Product Warranty may not be altered, varied or extended except by written instrument executed by Radiant Life. The remedies of replacement or refund of the Product purchase price are exclusive and are the sole obligations of Radiant Life under this Limited Product Warranty. Radiant Life will not be liable for any loss or damage arising from installation and use of the Product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

How to get service

To receive assistance with your water system and warranty, contact the Water Service Team at 888-593-9595 Opt. #2 or email waterservice@radiantlife.com. Be prepared to provide account details, purchase date, and describe the problem to the representative. Pictures or testing may be required to verify the warranty. Once the warranty is approved, it will be determined if a new part or system will be replaced at no cost to you.

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Customer Service

Contact the Radiant Life Water Service Team for instructions and authorization number for returning the defective part or product.

Radiant Life

Address: 5277 Aero Dr. • Santa Rosa, Ca 95403

Phone: (888) 593-9595 Option 2

Fax: (707) 433-8898

Email: waterservice@radiantlife.com

