



# Introduction

Thank you for purchasing Radiant Life's Biocompatible Water Purification System. Your system will provide you many years of dependable service while its design requires very little maintenance or filter changes compared to other systems.

To make installation and maintenance of your system as easy as possible, it arrives to you mostly assembled. The parts supplied will support nearly all installation situations. However, occasions do arise where unique plumbing or installation locations may dictate the need for an adapter, pressure reducing valve or other devices readily available through a local hardware or plumbing supply store. While we have made every effort to be complete in our instructions, if questions do arise, please call our Water Service Team at (888) 593-9595 (option 2).

Please note that your system has been thoroughly tested and inspected for leaks, product water quality, product water output and all other functions prior to shipment. Therefore, the system may retain a small amount of water. The system should be **kept away from extreme heat or freezing** and should be **installed within 45 days** of receipt to ensure that the deionization purifiers are not affected.

**Note:** Reverse osmosis water can react with certain metals causing leaching. Stainless steel or food grade plastic tubing is ideal to safely dispense purified water. For this reason, we advise confirming that any additional appliances or dispensers being use are "reverse osmosis ready." (i.e., refrigerators, ice makers, hot water dispensers, faucets, etcetera)

Be sure that the system tank is large enough to meet the demands of all connected appliances and dispensers.

We are confident that you will enjoy your water for many years!

## Safety

Exposure of the filters to freezing temperatures (32°F, 0° C) or temperatures exceeding 110°F (37.8° C) may damage the filters and cause the system to malfunction. Always install the filters where the temperature is above freezing and below 110°F (37.8° C).

High water pressure may cause plumbing issues that could damage the filtration system and cause plumbing leaks. The maximum recommended water pressure for the system is 80 psi. If the pressure exceeds 80 psi a pressure reducing valve must be installed.

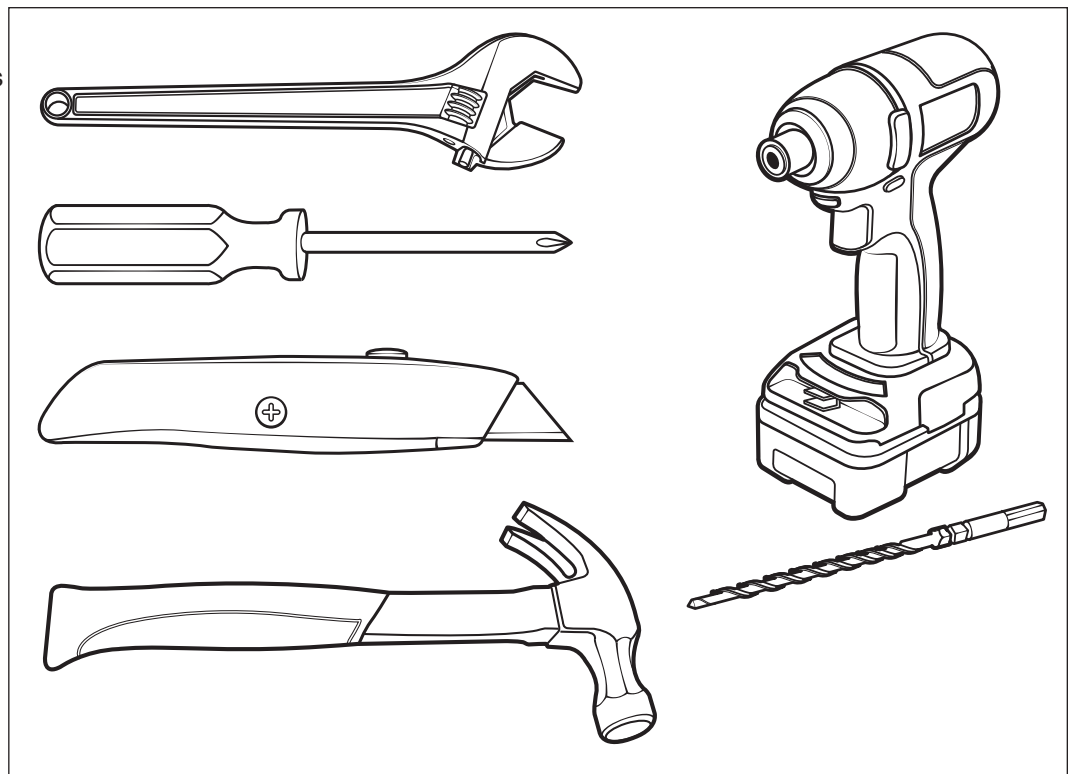
Installation and use of the system must comply with all state and local plumbing codes. If necessary, contact a local plumber for advice or help with installation.

## Required Tools

- Adjustable wrench
- Drill with 1/4" and 1/2" drill bits
- Phillips head screwdriver
- Razor, knife or tube-cutter
- Hammer

**Note:** If your sink assembly does not have a pre-drilled hole for the faucet you will need the following tools:

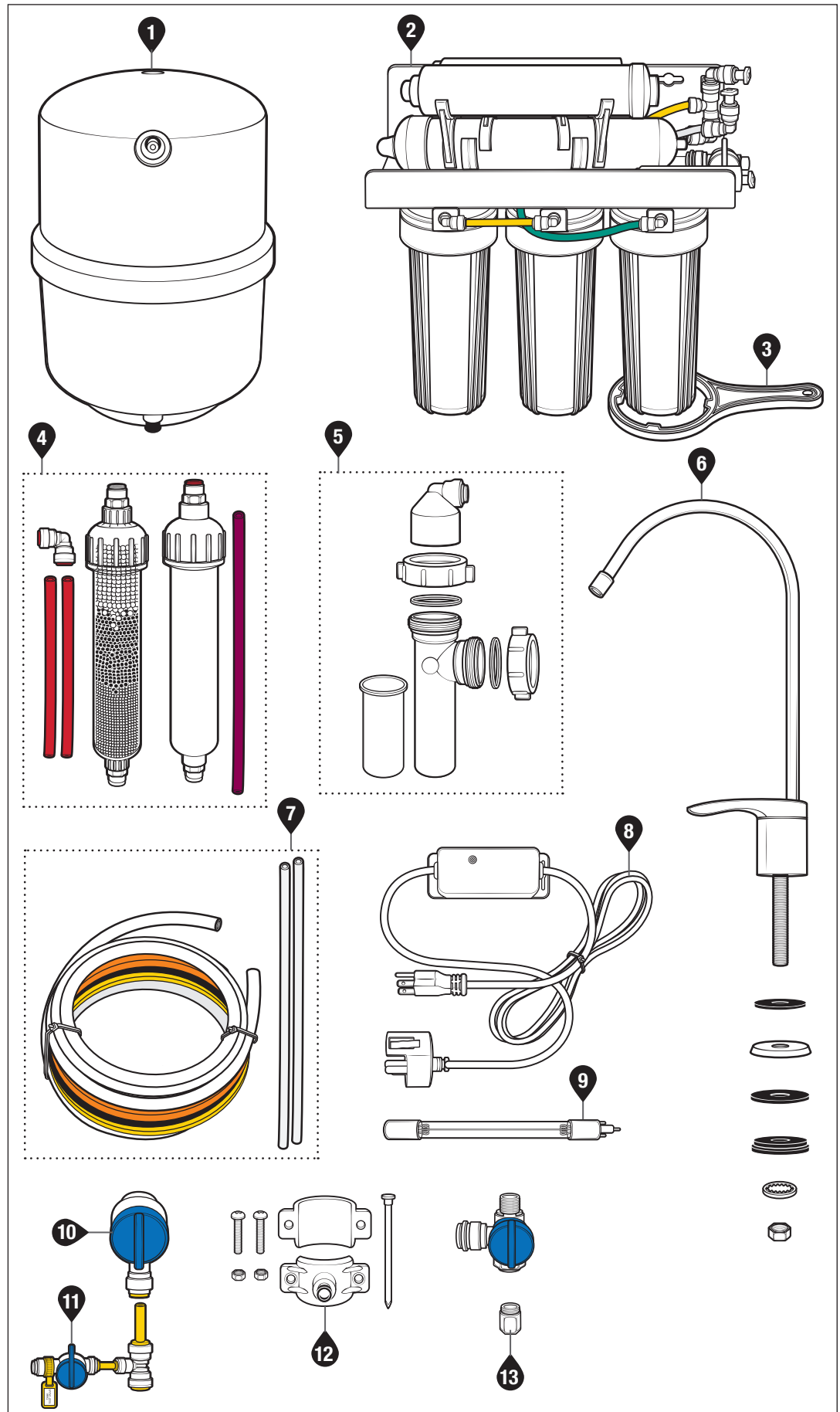
- 1/8", 1/4" and 1/2" drill bit
- File or sandpaper



# Product Components

Check that the following components are included in your package:

1. Tank
2. Water purification unit
3. Housing wrench
4. Remineralizing/restructuring cartridge kit
5. Drain line adapter package
6. Faucet package
7. Hose package
8. UV Power supply and ballast.
9. UV light bulb
10. Tank isolation valve
11. Tank test valve assembly
12. PVC drain saddle
13. Cold water angle kit (3/8" x 1/2")



# Installation

**Important!** Failure to follow these instructions, or use of parts other than genuine Radiant Life components, will void the warranty.

## Step 1 Install the Faucet

**Important!** Drilling a hole through a solid countertop surface such as granite, marble or porcelain and cast-iron sinks may require special tooling such as a diamond tip drill bit. If you are unsure, or uncomfortable, drilling the hole you should have a reputable, experienced person drill the hole.

Follow these steps to install the Faucet:

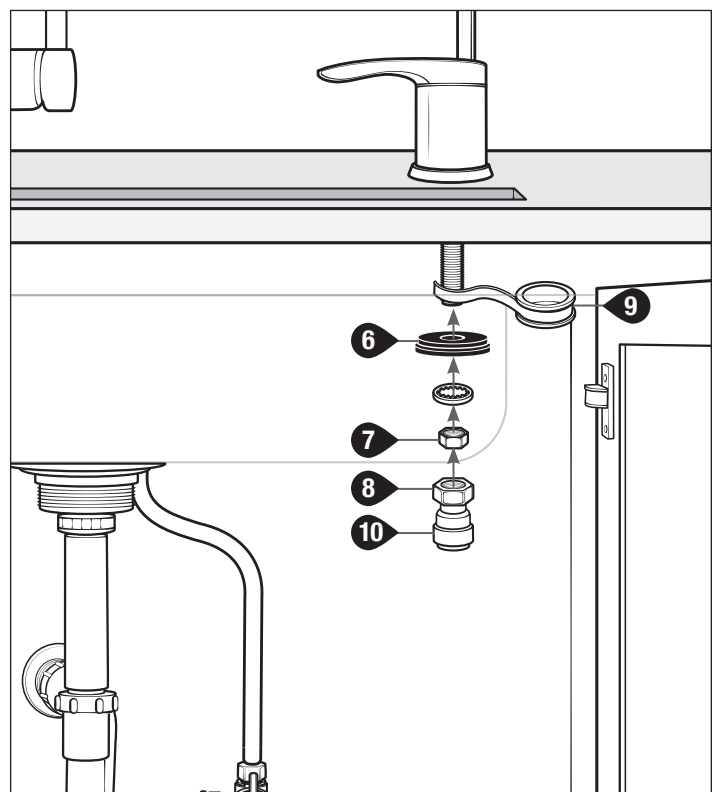
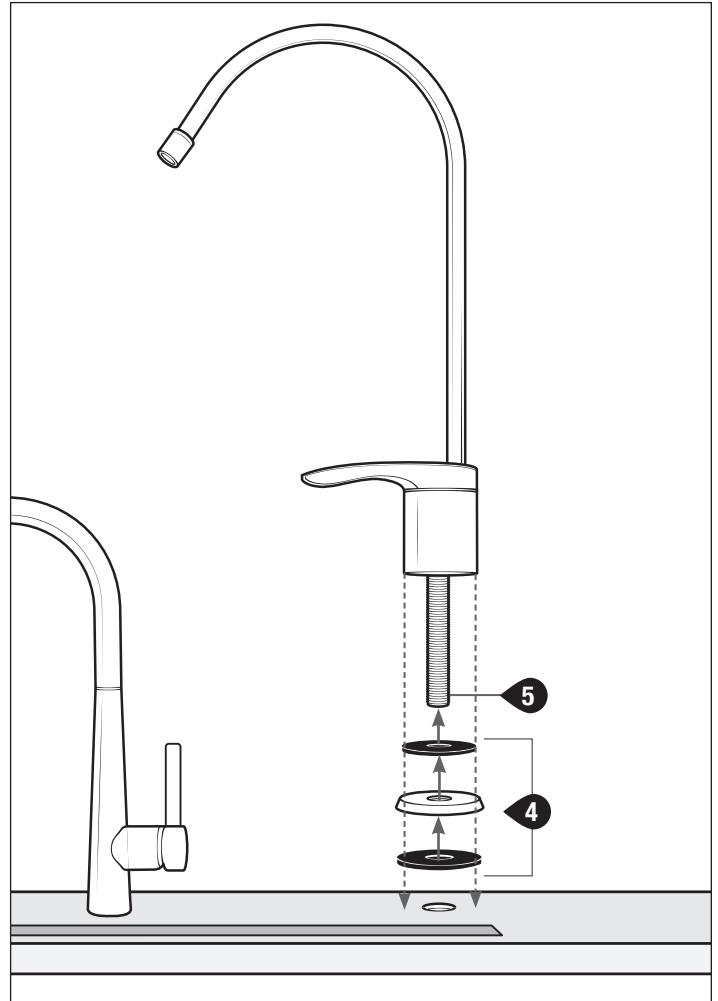
### Drill the Sink Hole

The Faucet requires a 1/2" diameter sink hole. Follow these instructions to drill a sink hole for the Faucet:

1. Drill a pilot hole using a 1/8" or 1/4" drill bit.  
**Note:** If drilling through stainless steel, punch a small dimple on the faucet location before drilling the pilot hole.
2. Create the hole using an 1/2" drill bit.
3. File any rough, sharp edges and clean the area.

### Install the Faucet

4. Place the Small Thin Washer, Hole Cover and Large Thin Washer onto the threaded shaft of the Faucet.
5. Place the threaded shaft of the Faucet through the sink hole.
6. Place the Spacer Washer onto the threaded shaft of the Faucet. **Note:** If the sink hole is 1" diameter, install the Spacer Washer with the small diameter inserted in the 1" diameter hole. If the sink hole is not a 1" diameter then the Spacer Washer can be installed in any direction.
7. Place the Tooth Lock Washer onto the threaded shaft of the Faucet.
8. Thread the Locking Nut onto the threaded shaft of the Faucet and tighten the Faucet down onto the sink surface. **Note:** The spout of the Faucet can rotate 360°. Position the Faucet Handle in the desired direction before tightening the Faucet down onto the sink surface.
9. Wrap Teflon Tape around the threaded shaft of the Faucet (2–3 wraps or 3/4 from the bottom of the shaft).
10. Carefully thread the Faucet Adapter onto the threaded shaft of the Faucet and hand tighten. Do not over-tighten.

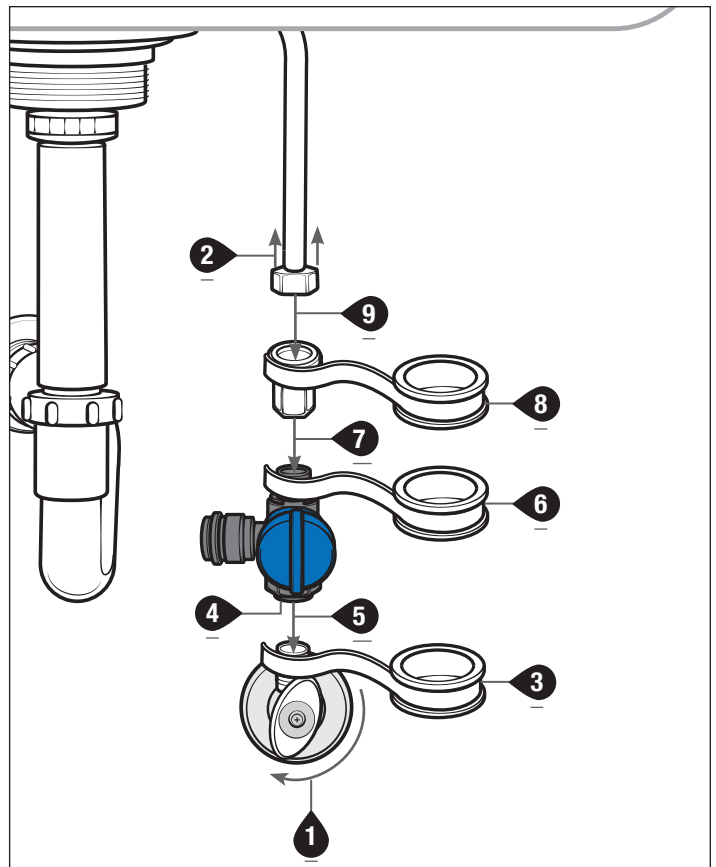


## Step 2 Install the Angle Stop Valve

Before connecting the angle stop valve, determine if you have a 3/8" or 1/2", cold water shut-off valve and hose.

### Installation for a 3/8" Cold-water Shut-off Valve

1. Turn off the cold water shut-off valve by rotating clockwise until completely closed. Check the kitchen sink cold water to confirm it is off.
2. Disconnect the cold-water hose to sink faucet from the cold-water shut-off valve.
3. Wrap Teflon Tape around the male threads on the cold-water shut-off valve.
4. Confirm that the black gasket is inserted into the female threaded end of the Angle Stop Valve Conversion Adapter.
5. Thread the Angle Stop Valve Conversion Adapter onto the cold-water shut-off valve. Do not over-tighten.
6. Wrap Teflon Tape around the male threads on the Angle Stop Valve Conversion Adapter (2 – 3 wraps).
7. Thread the Angle Stop Valve onto the Angle Stop Valve Conversion Adapter. Do not over-tighten.
8. Wrap Teflon Tape around the male threads on the Angle Stop Valve (2 – 3 wraps).
9. Connect the cold-water hose to the Angle Stop Valve.



## Step 3 Installing the Drain Saddle or Drain Line Adapter to a vertical pipe

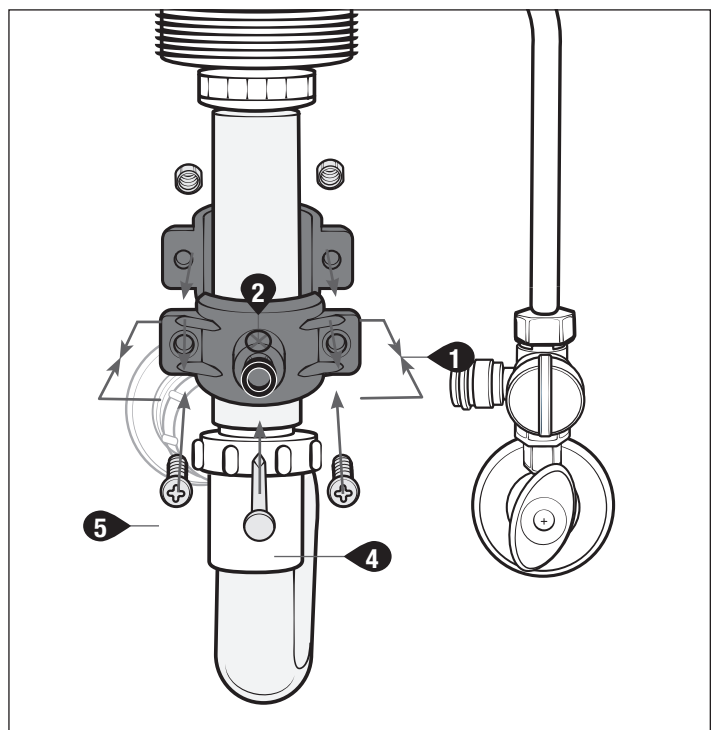
Before proceeding, determine which drain adapter is best suited for your application. **Note:** Before proceeding, determine which drain adapter is best suited for your application. Do not install the drain saddle on a pipe that carries waste from the garbage disposal.

### Installation on a vertical drain pipe attached to a sink.

Follow these steps if you are installing the system directly to the sink. **Note:** The Drain Saddle will fit most 1-1/2" drain diameter pipes. The ideal position is as close to the P-trap as possible. Installing the Drain Saddle too high may cause noise from the system when draining.

1. Place the Drain Saddle around the drain pipe.
2. Determine the position of the Drain Saddle and mark the location of the black collet on the drain pipe. **Note:** The Drain Saddle should be located above the horizontal pipe on the P-trap. Leave enough space to unthread and raise the nut on the P-trap if necessary.
3. Move the Drain Saddle aside and drill a 1/4" diameter hole through **one side** of the drain pipe.
4. Align the black collet on the Drain Saddle with the 1/4" diameter hole by inserting the 2nd nail until it touches the back of the pipe. **Important!** A leak may occur if not properly aligned.

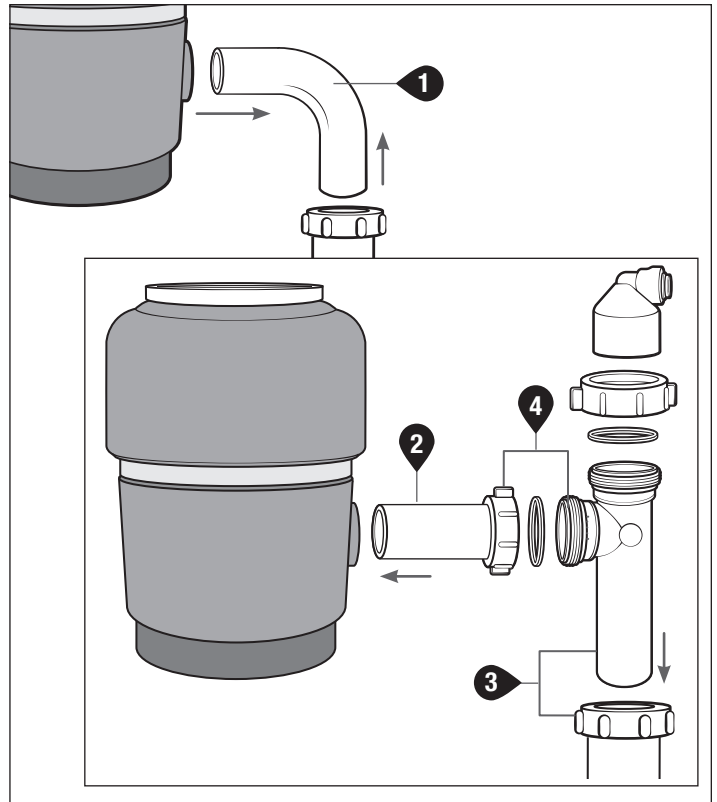
5. Place the Drain Saddle around the pipe and fasten the screws and nuts on the Drain Saddle to secure the saddle to the drain pie. Do not over-tighten.



## Installing the Drain Line Adapter on a garbage disposal

Follow these steps if your installing the system to a garbage disposal. **Note:** Using the Drain Saddle off the garbage disposal pipe may cause clogging of the system drain, damaging the system and voiding the membrane warranty.

1. Remove the garbage disposal elbow pipe from the garbage disposal and drain piping.
2. Install the Drain Line Adapter pipe into the garbage disposal.
3. Install the Drain Line Adapter assembly into the drain piping.
4. Connect the Drain Line Adapter pipe to the Drain Line Adapter assembly. Tighten connectors.



## Step 4 Install the Remineralizing and Restructuring Cartridges

**Important!** Install the Remineralizing Cartridge with the directional flow arrow pointing towards the Faucet. Do not install in the reverse direction.

Follow these steps to install the Remineralizing Cartridge:

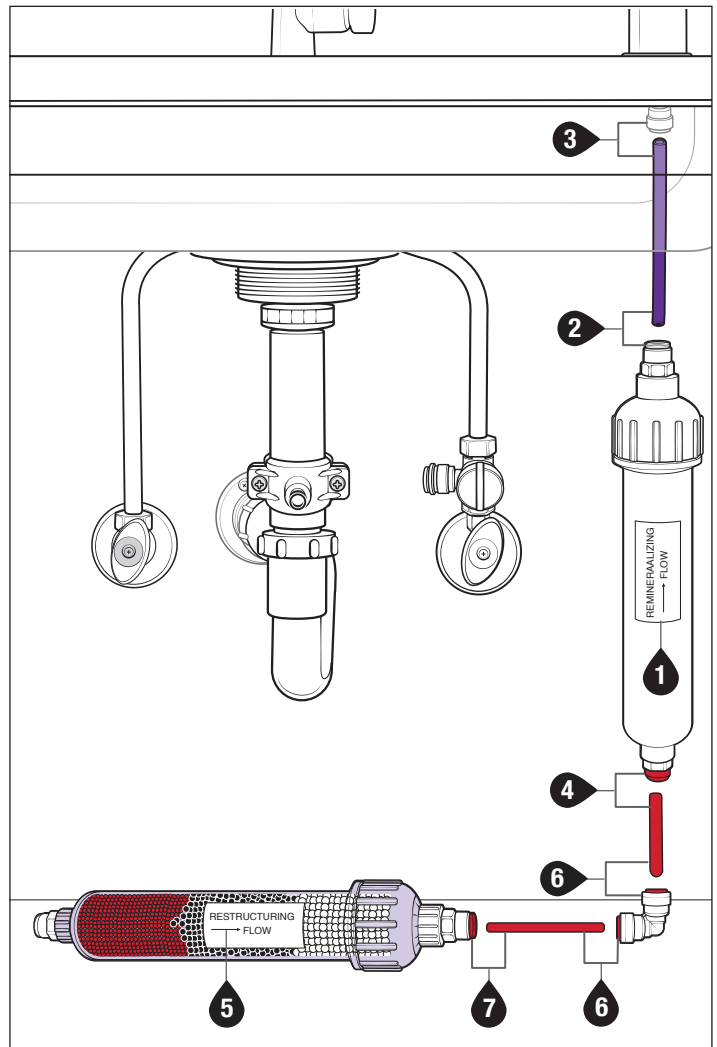
1. Orient the Remineralizing Cartridge with the directional flow arrow pointing up (towards the Faucet).
2. Insert the 3/8" **violet tube** into the cartridges **white outlet fitting**.
3. Connect the opposite end of the **violet tube** to the RO Faucet Adapter that is attached to the installed faucet.
4. Insert a **red tube** in the Remineralizing Cartridge's **red inlet**.

**Important!** Install the Restructuring Cartridge with the arrow pointing towards the Remineralizing Cartridge. Do not install in the reverse direction.

Follow these steps to install the Restructuring Cartridge:

5. Orient the Restructuring Cartridge with the directional flow arrow pointing in the flow direction (towards the Remineralizing Cartridge).
6. Insert both 3/8" **red tubes** into the elbow.
7. Insert a **red tube** into **outlet port** of the Restructuring Cartridge.

**Note:** If necessary, cut one or both of the **red tubes** as necessary so that the Restructuring Cartridge lays flat on the bottom of the cabinet. **Note:** Be sure to leave red tubing long enough that they can be disconnected during maintenance.

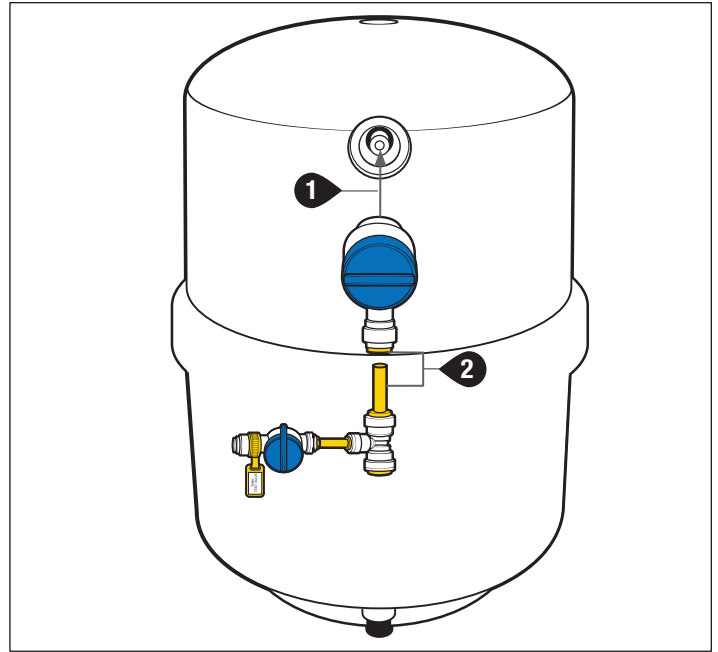




## Step 5 Install the Tank Isolation Valve and Tank Test Valve Assembly

Follow these steps to install the Tank Isolation Valve and Tank Test Valve Assembly:

1. Fasten the Tank Isolation Valve onto the tank turning in a clockwise direction. Do not over-tighten.
2. Insert the **short yellow tube** on the Tank Test Valve Assembly into the Tank Isolation Valve. **Note:** Gently pull on the tube to ensure the tubing is locked into place.



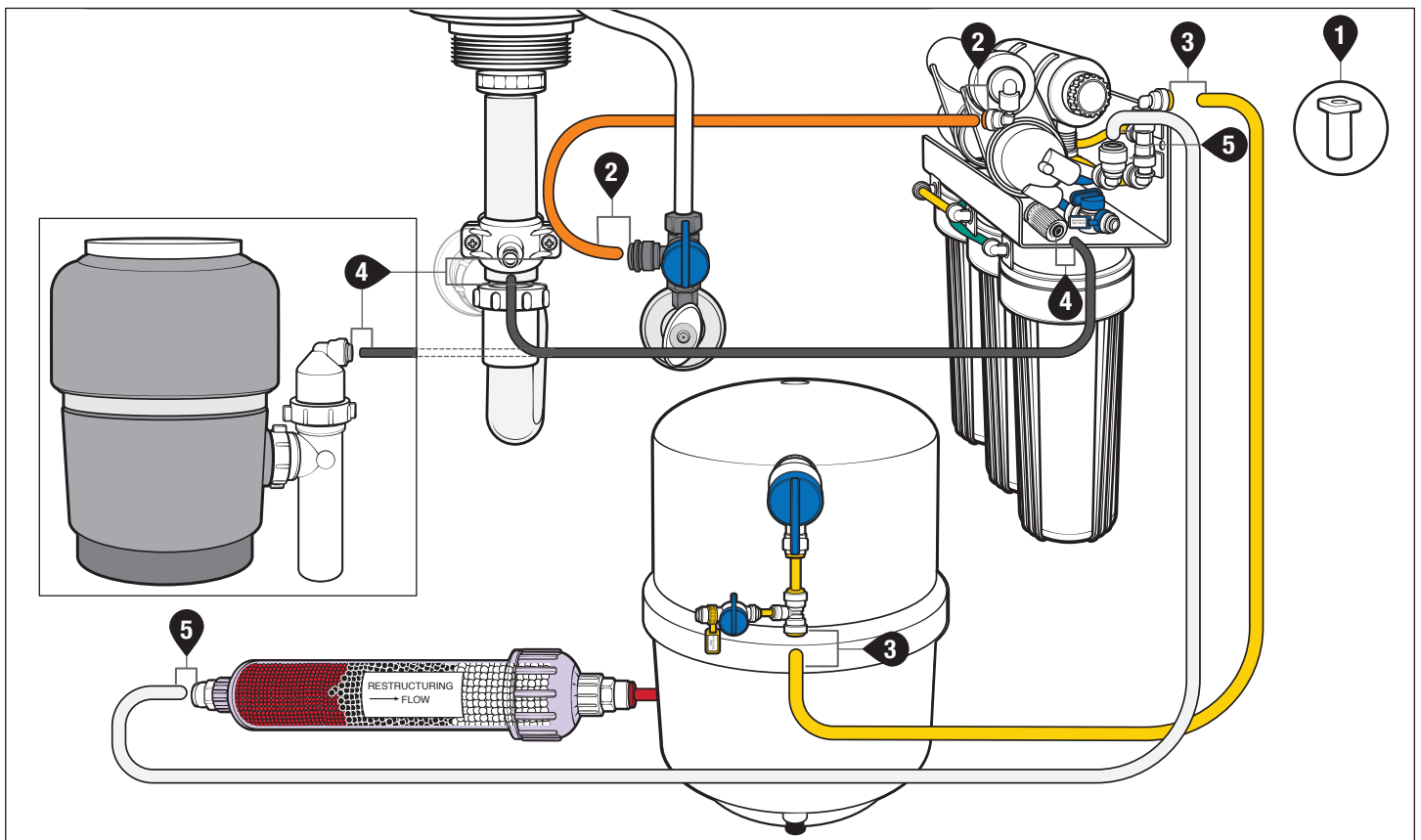
## Step 6 Connect the Tubing to the System Unit

**Important!** Cut the tubing sections to a length that allows removal of the System Unit from its secured location without disconnecting the tubing from the System Unit.

**Note:** The tube connection fittings on the parts being connected are color coded.

Follow these steps to connect the tubing:

1. Remove all the sealing plugs from the System Unit.
2. Connect the 1/4" **orange tube** to the Cold Water Angle Stop Valve and the Micron Pre-Filter.
3. Connect the 3/8" **yellow tube** to the Tank Test Valve Assembly and the "periscope" fitting located on the System Unit.
4. Connect the 1/4" **black tube** to the Flow Restrictor located on the System Unit to the Drain Saddle on the vertical pipe to the sink **or** the Drain Line Adapter installed on a garbage disposal.
5. Connect the 3/8" **white tube** to the Restructuring Cartridge and the UV Light located on the System Unit.



## Step 7 Install the UV Light Bulb

### WARNING!

Fingerprints or smudges on the UV light bulb may result in the bulb exploding when turned on and cause personal injury. Clean the bulb with a paper towel if the bulb has fingerprints or smudges on it. If possible, use soft gloves when installing the bulb.

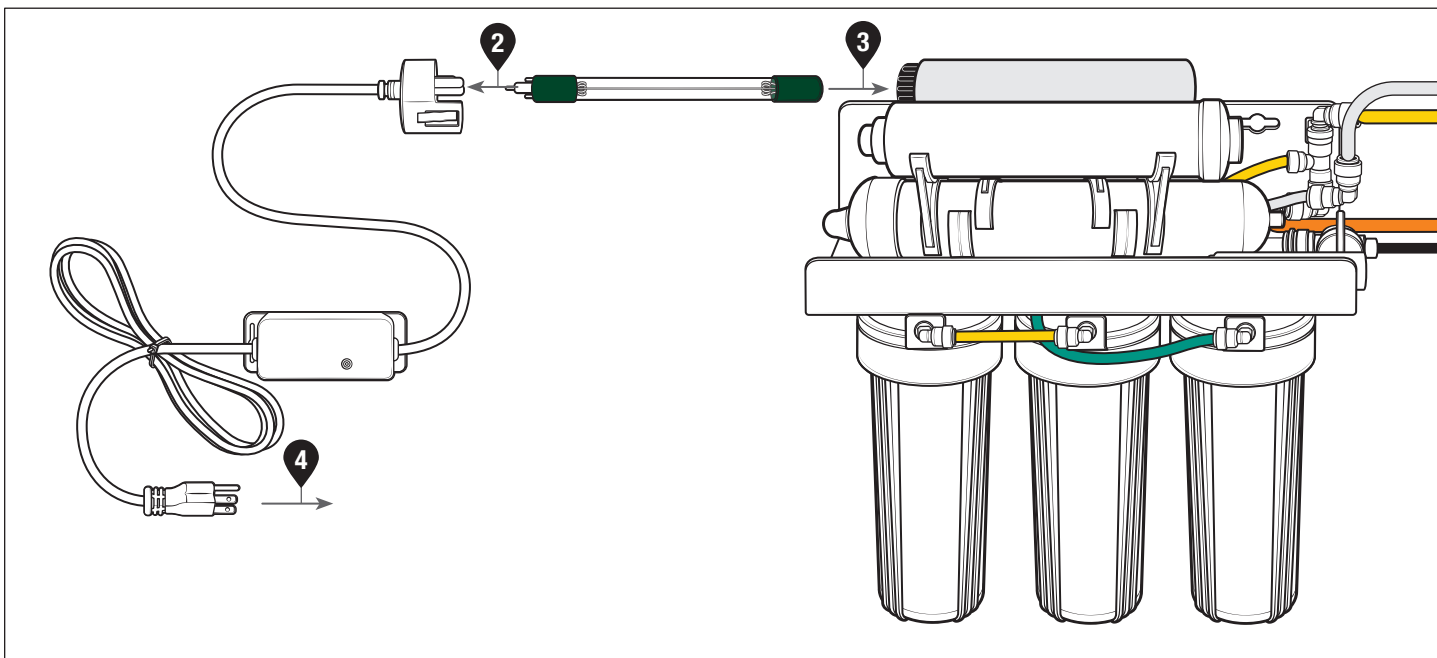
### NOTICE

Damage to the UV light bulb will result in an inoperable system. Do not operate the water purification system with a damaged UV light bulb.

Follow these steps to install the UV light bulb:

1. Pick up the UV light bulb by the ceramic ends. Inspect the bulb and wipe off any fingerprints and/or smudges.
2. Carefully insert the UV light bulb into the UV Power Supply and Ballast.
3. Carefully slide the UV light bulb into the UV Housing on the System Unit until you hear an audible click.
4. Plug the UV Power Supply into a standard 110V outlet.

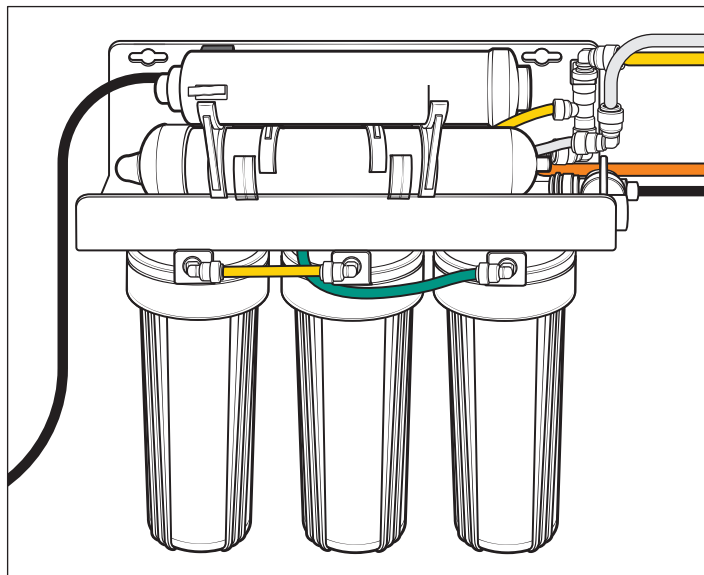
**Note:** Ensure the power outlet doesn't require a switch to turn on the UV light bulb. Once plugged in, a blue light will appear on the UV Power Supply and remain on.



## Step 8 Securing the System Unit to the Cabinet

The following are important considerations when choosing the location:

- The System Unit can be mounted to an interior wall or rest on the cabinet floor. If you do not wish to mount the System Unit to the interior walls simply place the System Unit in the desired location on the cabinet floor.  
**Important!** The System Unit *must* remain in the vertical position. Tip-over may result in leakage.
- Allow sufficient space to access the unit for maintenance.
- Ensure the Housing assembly or tubing will not interfere with the cabinet door.
- Position the System Unit so the tubing fits comfortably (i.e.: no pinching, kinks or over stretched) between the System Unit and connected parts.



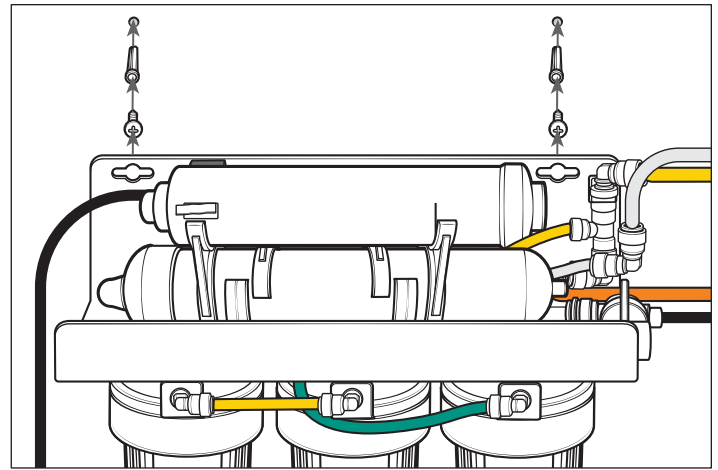


**Important!** Ensure there is sufficient space to change the Filter when mounting to the wall. There must be a minimum of 3 inches of clearance between the bottom of the System Unit and the floor.

Follow these steps to secure the System Unit.

**Note:** Mounting hardware not supplied.

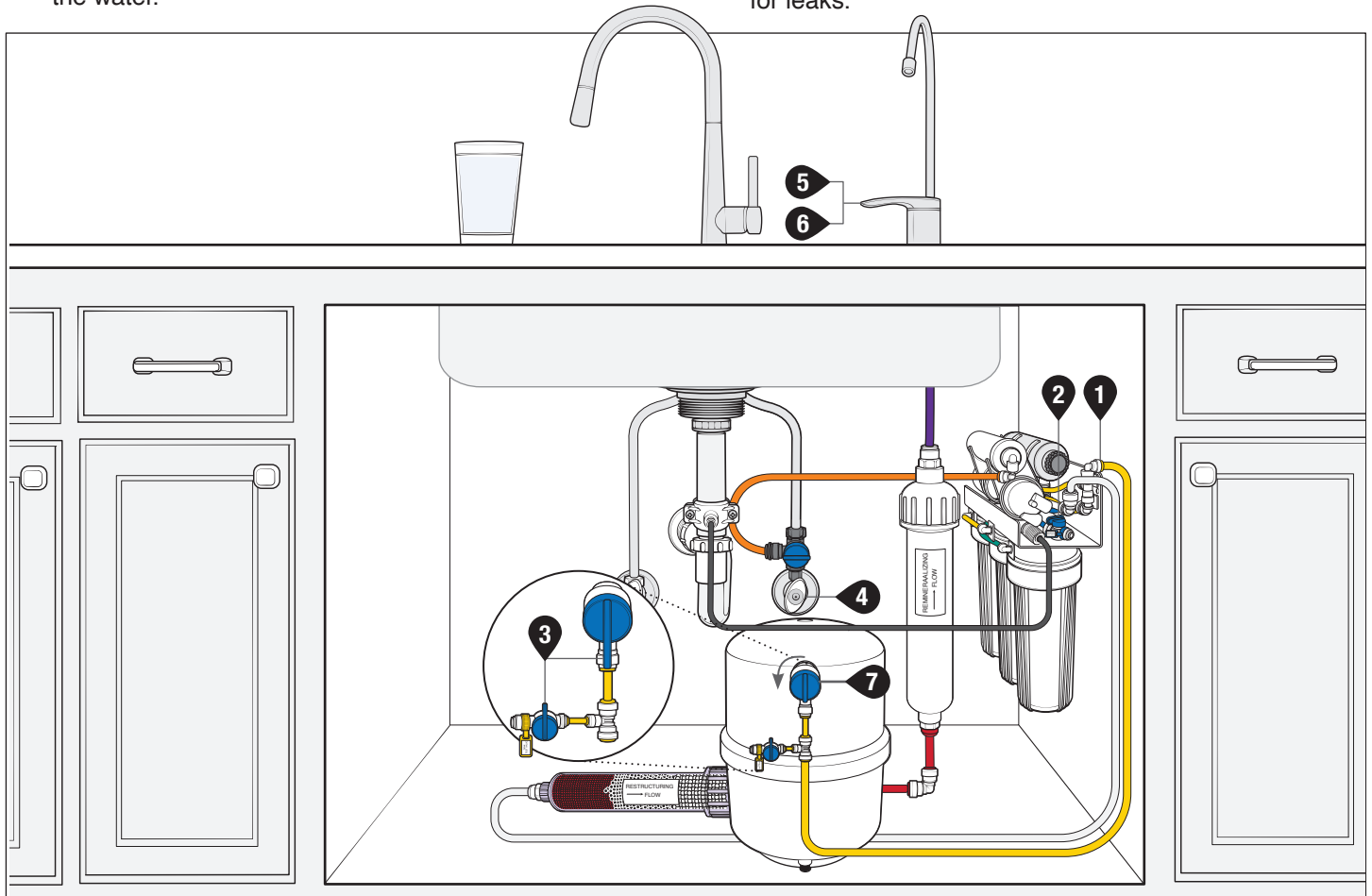
1. Position the System Unit in the desired location and mark the mounting hole locations.
2. Drill a 3/16" pilot hole at the mounting hole locations, inserting wall anchors in each hole.
3. Fasten the System Unit to the wall with the Mounting Screws.



## Step 9 Starting the System

Follow these steps to start the system:

1. Check that all tube connections are secure.  
**Note:** To test, push the tube in completely (approx. 1/4") and gently pull to secure.
2. Check that the Tank Test Valve and Membrane Test Valve (on the right side of the System Unit) are in the **closed** position.
3. Turn the Tank Isolation Valve to the **closed** position.
4. Turn on the water supply and move the Angle Stop Valve to the **open** position (i.e.: in line with the orange tube). Water will begin to fill the system and purify the water.
5. Open the Faucet to purge air from the system. Keep it open until a slow, steady stream of water begins to flow from the Faucet. It will take 15 to 20 minutes for the system to begin dispensing water at the Faucet.
6. Close the Faucet.
7. Move the Tank Isolation Valve to the **open** position. The purified water is now being directed to the Tank. This will begin the flushing process noted on the next page.
8. Monitor the system plumbing and tube connections for leaks.



## System Start-up

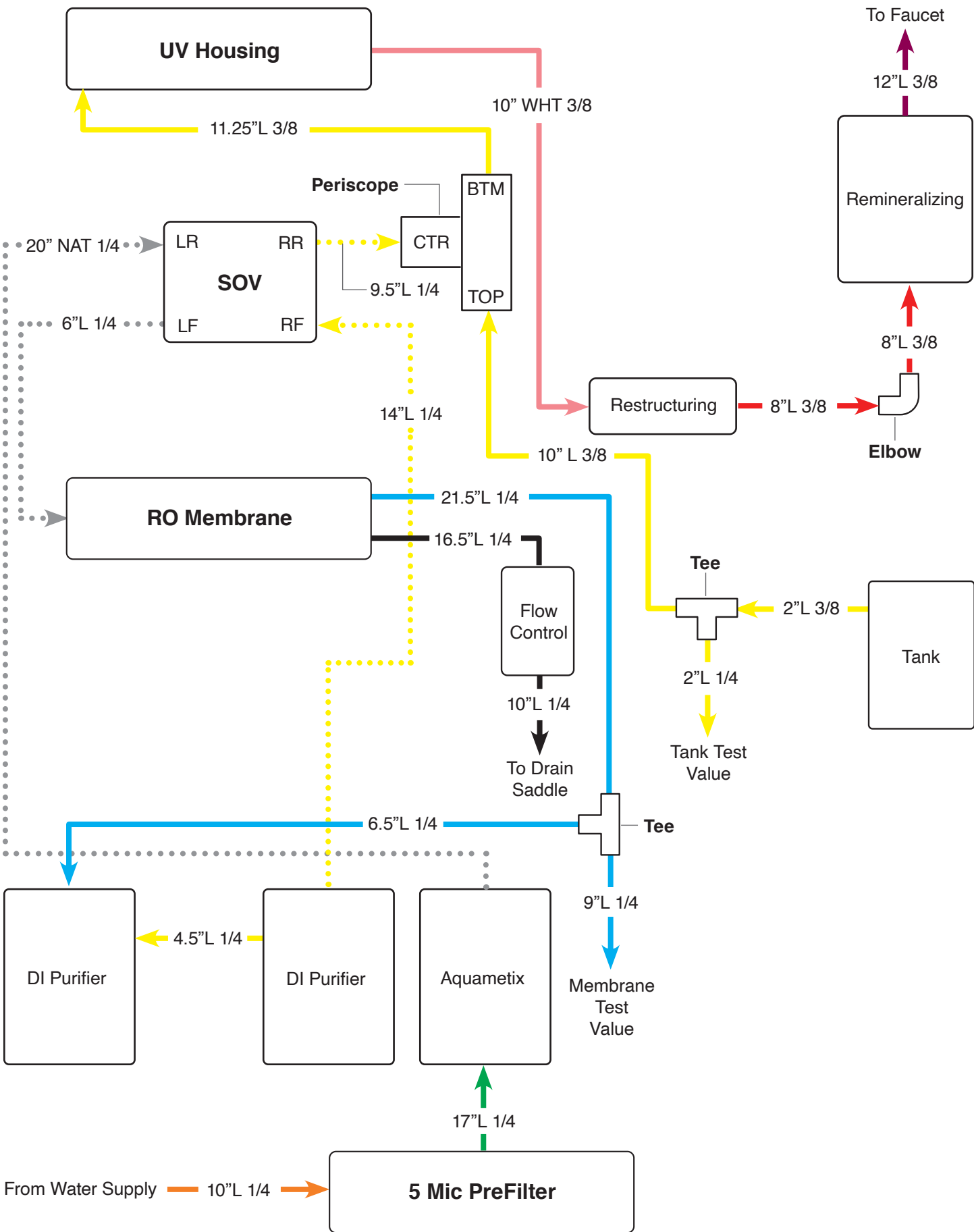
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- Water may be heard traveling through the black drain line. This is perfectly normal while the system is purifying water. This water cleanses the RO Membrane of contaminants, expelling them from the system into the sink drain. When the system is not purifying water, the drain line will not run.
- The Reverse Osmosis purification is NOT on demand and requires a storage tank. Under perfect conditions, the system can purify a maximum of 50 gallons of water per day. (Incoming water quality, temperatures and pressures are contributing factors).
- Estimated time to fill a tank is as follows:
  - 4 gallon: 2 - 3 hours (3.2 gallon max capacity)\*
  - 9 gallon: 5 - 6 hours (5.5 gallon max capacity)\*
  - 14 gallon: 9 - 10 hours (9 gallon max capacity)\*
  - \* Capacity not guaranteed
- The first TWO full tanks of water should be disposed of by opening the RO Faucet until the tank is completely empty. A small trickle of water will continue to flow from the RO faucet, this is the system making water and the RO Faucet can be closed to refill the tank.

Scan the QR code to see our 14 Stage Biocompatible Water Purification System FAQs, technical information and support.



# System Flow Chart



# Warranty

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## Warranty Scope

Radiant Life warranties to the original purchaser of the 14 Stage Biocompatible Reverse Osmosis water purification system will be free from defects in materials or workmanship in manufacturing for one (1) year from the original date of purchase, 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. This warranty does not cover labor.

## Warranty Conditions

- The product was installed and operated within the operating conditions specified in the installation/owner's manual.
- The individual invoking the warranty is the original purchaser of the 14 Stage Purification System.
- The system has been properly maintained. The replaceable filters and membrane are changed and maintained on a regular basis as directed in the Instruction and Owner's Manual. In some areas, the numbers and amounts of impurities present in the local water supply may require that the filters and membrane be replaced on a more frequent basis.

## What is not Covered

No warranty is given as to the service life of any filter cartridge or membrane as this will vary depending on local water conditions and water input.

This warranty does not cover filter cartridges 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:

- Clogging (water conditions)
- Incidental or consequential damages caused by failure of the product
- Labor costs to install or replace the filters 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, filters, faucets, and fittings/valves.

## 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](mailto:waterservice@radiantlife.com). Be prepared to provide account details, purchase date, and describe the problem to the representative, who will verify the warranty. At this time, it will be determined if a new part or system will be replaced at no cost to you.

## Customer Service

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



Scan the QR code to see our 14 Stage Biocompatible Water Purification System FAQs, technical information and support.

