

## REQUIRED TOOLS & MATERIALS

- Basic plumbing knowledge
- $\frac{1}{8}$ " &  $\frac{7}{32}$ " Drill Bits/Drill
- Pencil
- Tape Measure
- Adjustable Wrench
- Masking Tape
- Utility Knife
- Bleach
- Pan or Bucket
- Screwdriver (Phillips)
- Safety Glasses



## WHAT'S INCLUDED

- |   |                               |                                |
|---|-------------------------------|--------------------------------|
| A System Manifold   | H Water Storage Tank          | P Tubing $\frac{1}{4}$ " White |
| B Carbon Filter Sump  | I Eye Dropper                 | Q Tubing $\frac{3}{8}$ " White |
| C Membrane Filter Sump                                      | J Tank Connector              | R Tubing $\frac{3}{8}$ " Red   |
| D Claryum Filter Sump                                       | K Plumber's Tape              | S Screws + Bracket             |
| E Remineralizer   | L Drain Connector             | T Brass Tee                    |
| F Faucet  | M Nuts & Bolts                | U Carbon Filter Cartridge      |
| G Gasket, Nut, Washer, Spacer, Quick Connector (for faucet) | N Foam Seal                   | V Claryum Filter Cartridge     |
|   | O Flow Restrictor & 90° Elbow |                                |

## ⚠ WARNING: Using a qualified installer is recommended.

- ⚠ Proper installation is the responsibility of the installer.
- ⚠ Product failure due to improper installation is not covered under the warranty.

NOTE: Keep these instructions for future reference

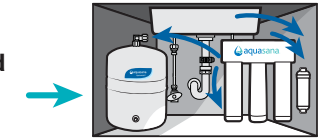
## PLAN FOR INSTALLATION

Prior to installation, we recommend you read the entire manual to familiarize yourself with the system, and help you determine the best location for installation. Please check and comply with all local plumbing codes.

## PREPARE SITE FOR INSTALLATION

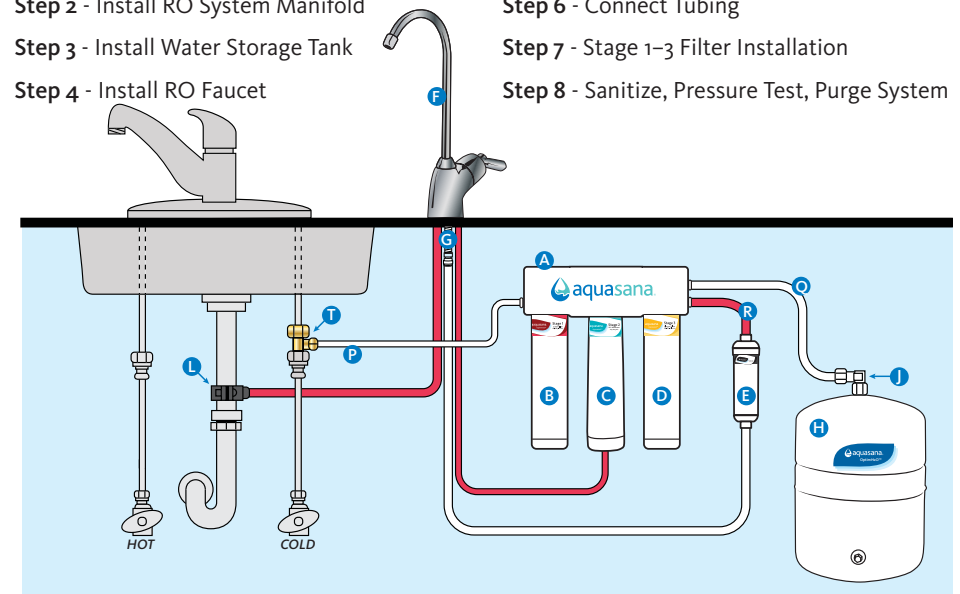
NOTE: If you have metal drain pipes, consult a plumber for installation of drain connection.

- Prior to installation, close the cold water shut-off valve.
- Temporarily place system manifold, remineralizer, and tank into the under sink cabinet or desired location to ensure adequate space and proper positioning.
- $\frac{3}{8}$ " white tubing will be used to connect manifold to tank, and from faucet stem to remineralizer. Measure out  $\frac{3}{8}$ " white tubing from the top of the tank to the outlet side of the system manifold and mark  $\frac{3}{8}$ " tubing. Then measure remaining length of  $\frac{3}{8}$ " tubing from the remineralizer to the desired location of the faucet hole to ensure there will be enough  $\frac{3}{8}$ " tubing available for both connections. Wait to cut tubing and follow instructions below.
- Remove system, remineralizer, and tank from under your sink to begin installation.



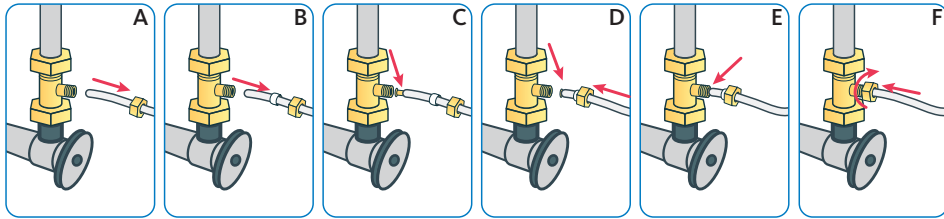
## INSTALLATION OVERVIEW

- |                                     |  |
|-------------------------------------|--|
| Step 1 - Install Brass Tee Fitting  | Step 5 - Install RO Drain Connector            |
| Step 2 - Install RO System Manifold | Step 6 - Connect Tubing                        |
| Step 3 - Install Water Storage Tank | Step 7 - Stage 1-3 Filter Installation         |
| Step 4 - Install RO Faucet          | Step 8 - Sanitize, Pressure Test, Purge System |



## 1 — INSTALL BRASS TEE FITTING

- 1 Turn off the cold water supply to the sink.
- 2 Turn on the kitchen faucet to release pressure and allow water to drain from the line.
- 3 Disconnect the cold water line from the ½" threaded stem on the bottom of the kitchen faucet. Attach threaded ends of supplied brass tee to the cold water supply line and shut-off valve; tighten using an adjustable wrench.
- 4 Attach ¼" white tube to the brass tee:



- A. Slide the compression nut onto the white tubing.
  - B. Slide the plastic sleeve onto the white tube.
  - C. Place brass insert into the opening of white tube.
  - D. Push the tip of the white tubing into the opening of the brass tee.
  - E. Slide the compression nut onto the threads of the brass tee.
  - F. While holding the white tube in place, tighten the compression nut to compress the plastic sleeve and create a seal. **NOTE: Use a wrench to ensure complete seal. Avoid over tightening.**
- 5 Do not connect the other end at this time.

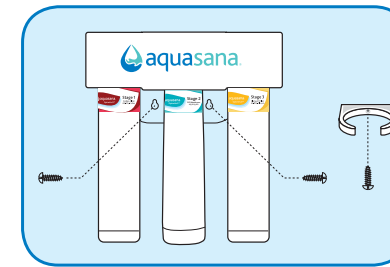
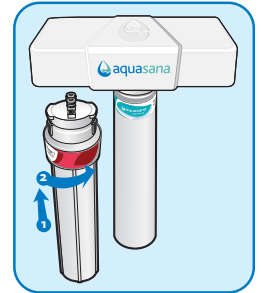
## 3 — INSTALL WATER STORAGE TANK



- 1 On the nipple on top of the tank, apply plumber's tape 4 or 5 times clockwise around in the same direction as the threads.
- 2 Hand tighten the tank connector onto the tank nipple until secure. **NOTE: Do not cross thread or over tighten.**
- 3 Using mount stand, place tank near the system manifold. Measure ¾" white tubing to the outlet side of the system manifold and ensure you have enough tubing to connect tank and system manifold as well as enough left to attach faucet stem and remineralizer. Cut ¾" white tubing.

## 2 — INSTALL SYSTEM MANIFOLD

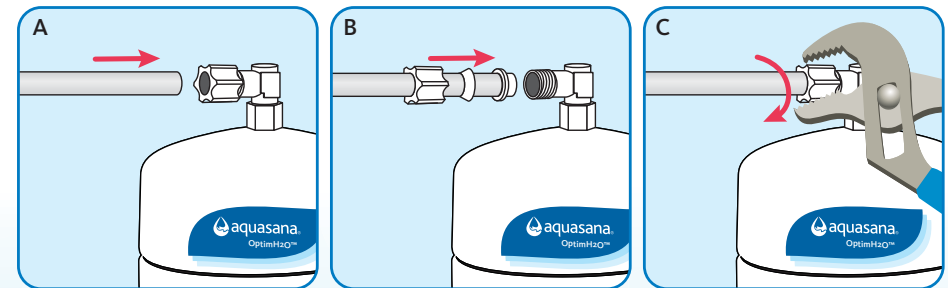
- 1 Select an easily accessible area under the sink to mount system manifold and remineralizer holder. You want to allow at least a 4 to 6 inch clearance below the filters to the floor to allow ample space for filter changes. To help gauge the right location for your system manifold, insert first and third stage filter sumps into manifold. Insert sumps by aligning top connection points and push up and to the right until sumps are locked in.



- 2 Mark wall placement for mounting screws using built-in bracket on back of manifold. Make sure holes are as level as possible. Mark screw placement of the remineralizer holder 1 or 2 inches from the third stage sump to the right of the manifold.
- 3 Drill two pilot holes for mounting brackets using ⅛" drill bit for the system manifold. **NOTE: Use caution not to drill into anything beyond the cabinet wall.**
- 4 Insert mounting screws into the wall leaving approximately ⅜" of each screw exposed.
- 5 Remove first and third filter sumps from manifold by turning each sump to the left and pulling down before hanging manifold on wall. Mount manifold on wall and screw in. Be careful not to over tighten.
- 6 Screw in remineralizer holder onto wall.

- 4 Install the ¾" white tubing to the tank:

- A. Push the tubing through the nut, collar and sleeve into the connector.
- B. Unscrew the compression nut from the tank connector to ensure that the tubing is connected all the way through the collar and sleeve.
- C. Slide the nut to the threads and tighten with a wrench. Avoid over tightening.

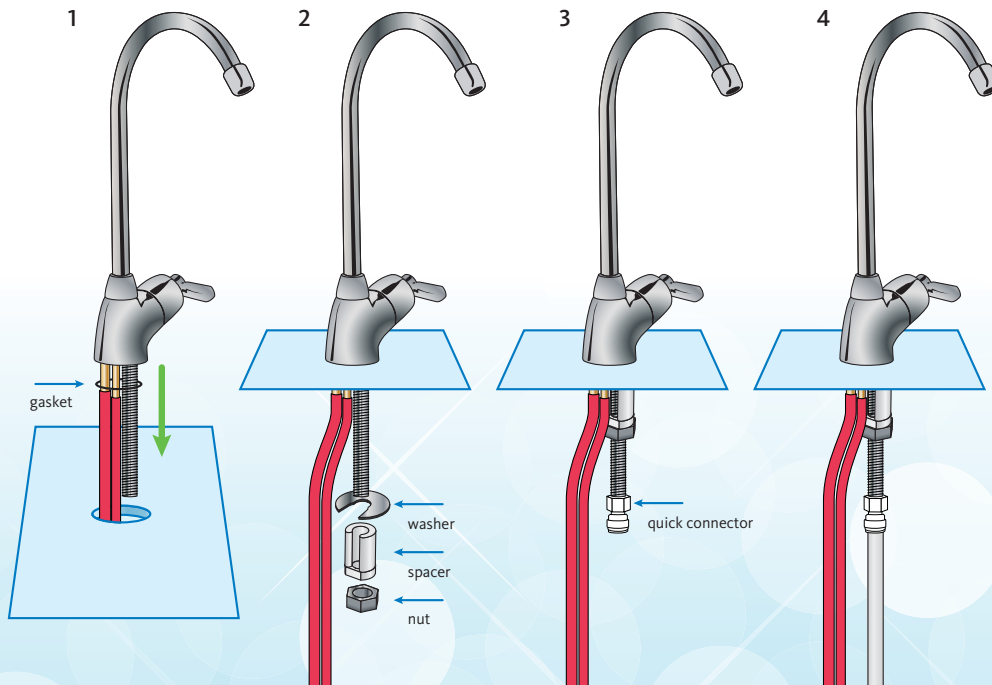


## 4 — INSTALL RO FAUCET

You will need a sink top hole 1" in diameter. If drilling a new hole, ensure faucet body will mount flat against surface and that there is sufficient tubing between faucet body and system manifold. **NOTE:** Drilling holes into solid surfaces or surfaces made of stone should only be performed by a qualified and certified installer.

- 1 Place the black rubber gasket into the groove of the faucet base and feed the tubing and faucet threads through the countertop hole.
- 2 Underneath counter, slide on the slotted washer, spacer and nut. Tighten with wrench.
- 3 Tighten the white quick connector onto the base of the faucet threads.
- 4 Attach  $\frac{3}{8}$ " white tubing by inserting into quick connector approximately  $\frac{5}{8}$ " until it stops. Gently tug on the tubing to ensure it is firmly seated in fitting.

**NOTE:** Do not connect  $\frac{3}{8}$ " white tubing from tank to faucet.



## 5 — INSTALL RO DRAIN CONNECTOR



### ⚠ WARNING

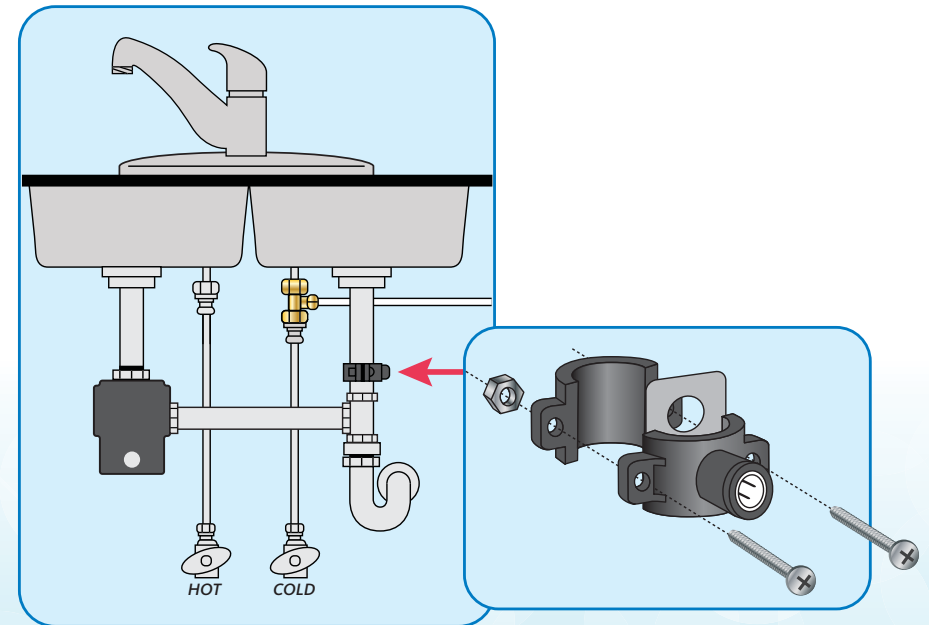
Be sure that all electrical appliances and outlets are turned off at the circuit breaker before working in the cabinet area.



### ⚠ CAUTION

Please wear safety glasses to protect eyes when drilling.

- 1 Identify drain outlet location. Do NOT install the drain connector onto the same drain pipe as the garbage disposal whenever possible.
- 2 Remove protective cover from back of foam seal.
- 3 Knock center hole out, align holes, and attach to front plate of drain connector.
- 4 Allowing room for drilling, position the drain connector on sink drain pipe above drain trap.
- 5 Securely tighten nuts and screws.
- 6 Using the drain connector port as a drill guide, drill a  $\frac{7}{32}$ " hole into the drain pipe. Be sure not to penetrate opposite side of pipe, or to damage side of the drain port fitting.

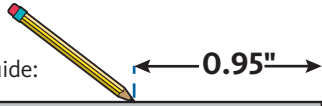


### Pro Tip

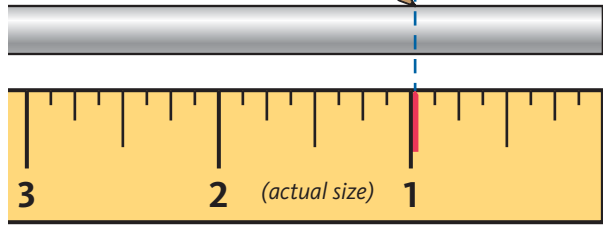
If there is leakage from the drain bracket, loosen the bolts and slide the bracket up so the drilled hole is at the bottom of the drain connector port.

## 6 — CONNECT TUBING

Tube Marking Guide:



0.95"



### Tubing Do's

Insert tubing **ALL THE WAY IN** to prevent leaking. In most cases, up to nearly a full inch. Wet end of tubing to more easily insert into all inlets and outlets.

Cut excess tubing in order to prevent crimping, kinks, loops or folds.

### Tubing Dont's

DO NOT cut tubing too short. Always double check measurements before cutting.

DO NOT bend or crimp or kink tubing.

DO NOT discard excess tubing.

### I: Brass Tee to Manifold "INLET" (1/4" white tubing)

- 1 Take the white tubing leading from the brass tee and insert it into the manifold port labeled "INLET". Remember to push it all the way in until it stops.

### II: Manifold to Remineralizer (3/8" red tubing included in packaging)

- 1 Insert one end into the manifold port labeled "FAUCET".
- 2 Insert the other end into the remineralizer port labeled "INLET".

### III: Remineralizer to Faucet (3/8" white tubing already attached to faucet)

- 1 Insert the 3/8" white tubing (that was installed in step 4) from the faucet into the remineralizer port labeled "OUTLET".

### IV: Manifold to Tank (3/8" white tubing already attached to tank)

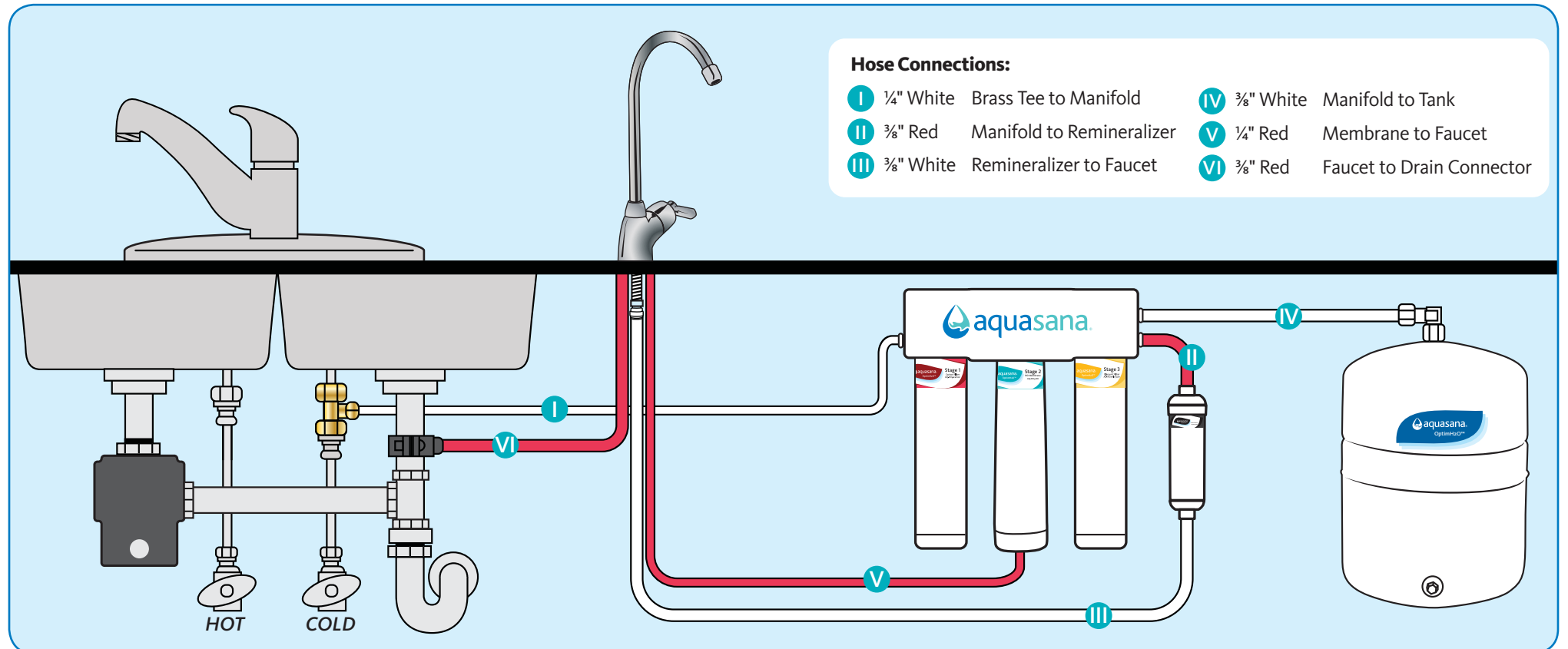
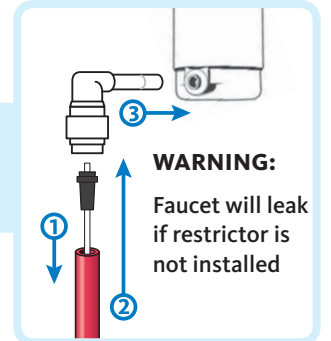
- 1 Take the white tubing leading from the storage tank and insert it into the manifold port labeled "TANK". Remember to push it all the way in until it stops.

### V: Air Gap to RO Membrane (1/4" red tubing from faucet)

- 1 Insert restrictor into the end of the red tubing.
- 2 Attach 1/4" red tubing to the 90° elbow until it stops.
- 3 Attach 1/4" 90° elbow to the membrane drain port.

### VI: Faucet to Drain Connector (3/8" red tubing from faucet)

- 1 Take the 3/8" red tubing from faucet and insert it all the way into the drain connector.

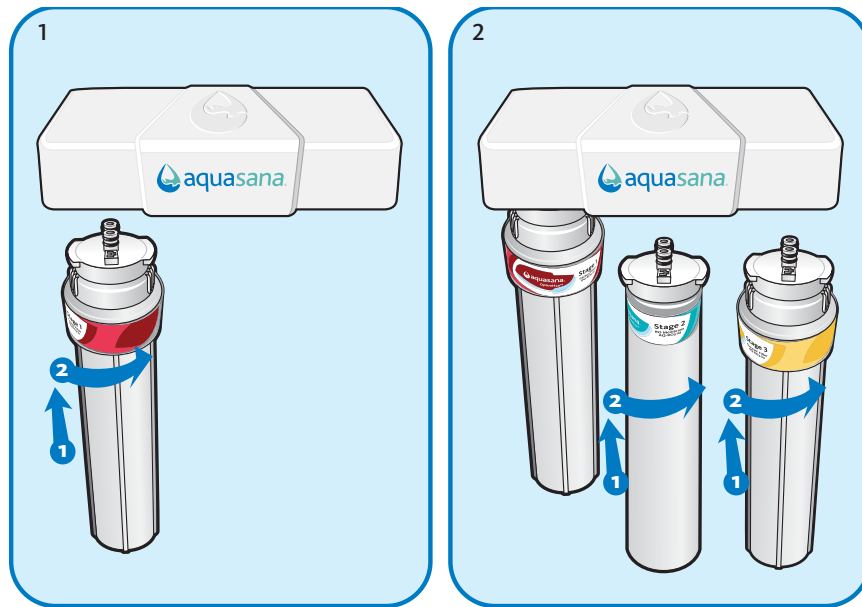


## 7 — STEP 1-3 FILTER INSTALLATION

Before you begin: make sure the cold water valve is shut off and there is no pressure in the system. Carbon (red) and Claryum (yellow) filter cartridges will come pre-installed in their cartridge sumps.

- 1 Attach red carbon sump to the 1st stage position on the inlet side of the system manifold. Make sure all connection points are aligned and push the top of the sump up and into the system manifold. Turn it towards the right until it locks in.
- 2 Repeat step 1 for the 2nd Stage RO membrane that goes in the center, and for the yellow Claryum cartridge in the 3rd stage position on the outlet side of the system manifold.

Be sure to turn 2nd stage RO membrane all the way to the right, until drain port on cartridge is facing the rear of the system.

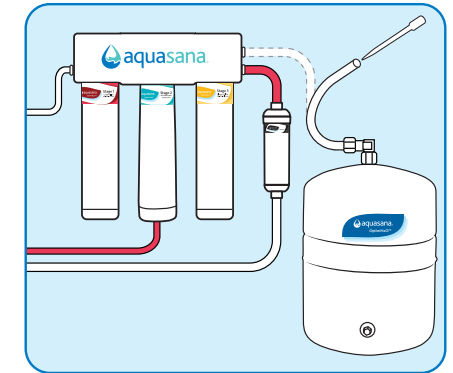


## 8 — SANITIZE, TEST & PURGE

### Sanitize

**Note:** Sanitization is recommended immediately after RO Filter System installation and any inner-part servicing. The person sanitizing should have clean hands during this process.

- 1 Shut off water supply to RO system.
- 2 Open faucet. If tank is not empty, allow to drain until empty.
- 3 With included eyedropper and household bleach (5.25%), disconnect white tubing from the manifold outlet labeled "TANK".  
**Note:** Bleach needs to be handled according to manufacturer's instructions.
- 4 Add 3ml bleach into open end of tank white tubing.
- 5 Reconnect the tank from the tube into the manifold outlet labeled "TANK". Be sure to push tubing in all the way.
- 6 Sanitization will be completed during the following pressure test and purge. Important: Bleach must be completely removed from system before drinking water. See Purge instructions below.



### Pressure Test

**Important:** Complete sanitization prior to pressure test.

- 1 Open cold water supply valve to RO Filter System.
- 2 To purge air from the plumbing system, open kitchen faucet. Close faucet when water runs smooth.
- 3 Confirm RO faucet is closed.
- 4 Within approximately 2 hours, pressure will start to build in the RO Filter System. Carefully inspect all connections and fittings while this pressure buildup occurs.
- 5 Check for leaks. If leaks are found, fix by ensuring all tubing is cut squarely and fully inserted. Also confirm there are no scratches, dents or notches at tubing end. If there are, squarely cut 1" off and re-insert.

**Note:** When RO Filter System is first pressurized, water may project from faucet air gap hole until air is passed from RO Filter System.

### Purge

- 1 Open RO faucet and let water flow through system for 24 hours.  
**Note:** Flow rate will be slow during this time.

- 2 Close RO faucet after purge is complete.

**Note:** Your RO Filter System is ready for use when purge is complete, however, you will not have filtered water immediately. It takes 1-3 hours to completely fill the tank. The flow rate will be less than your kitchen faucet. Water will run to the drain while the RO Filter System is filtering water – even when not in use. This is normal. Water going to drain will stop automatically when tank is at capacity.