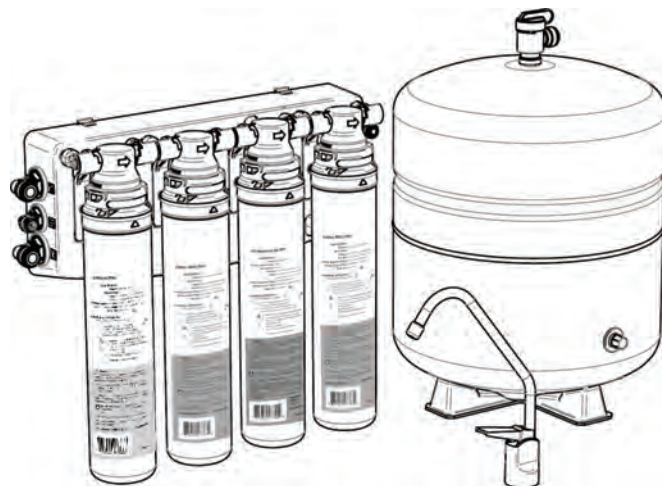


AQUA FLO®

Quick Change Reverse Osmosis Drinking Water System

Models: QCR04V-50
QCR04V-50-PL
QCR04V-75
QCR04V-75-PL



QCR04V-50 system certified by IAPMO R&T to NSF/ANSI 58 and CSA B483.1 for the reduction of the following substances, as verified and substantiated by test data: Barium, Cadmium, Copper, Fluoride, Hexavalent Chromium, Lead, Arsenic (V) (less than 300 ppb reduction), Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbidity, and PFOA/PFOS.

- Please read carefully before proceeding with installation. Your failure to follow any attached instructions or operating parameters may lead to the product's failure. Keep this Manual for future reference.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- If you are unsure about installing QCRO units, please contact your dealer.
- Test the water periodically to verify that the system is performing satisfactorily.
- Discard small parts remaining after the installation.
- Failure to install the system correctly voids the warranty.
- Handle all components of the system with care. Do not drop, drag or turn components upside down.
- Be sure the floor under the water filter system is clean, level and strong enough to support the unit.

BRAND: AQUA FLO® MODELS: QCR04V-50, QCR04V-50-PL, QCR04V-75, QCR04V-75-PL

Canature WaterGroup Canada Inc.
855 Park St., Unit 1
Regina, SK, S4N 6M1
Toll Free: (877) 288-9888

Canature WaterGroup U.S.A. Inc.
6353 Commerce Drive
Whitestown, IN, 46075
Toll Free: (877) 288-9888

Attention Customer:

This system is intended for use on potable water supplies or disinfected water containing cysts. Do not use where water is microbiologically unsafe or with water of unknown quality. If bacterial contamination is present, a recognized method of water disinfection is required.

Check with your public works department for applicable local plumbing and sanitation codes. Follow your local codes if they differ from the standards used in this manual.

The Quick Change Drinking Water System contains a replaceable reverse osmosis membrane filter which is critical for the effective reduction of Total Dissolved Solids. The filtered water should be tested periodically to verify that the system is performing properly.

Safe Practices

Throughout this manual there are paragraphs set off by special headings.

NOTE: Note is used to emphasize installation, operation or maintenance information which is important, but does not present any hazard.

Example:

NOTE
The nipple must extend no more than 1 inch above the cover plate.

CAUTION!: Caution is used when failure to follow directions could result in damage to equipment or property. Example:

 CAUTION!
Disassembly while under water pressure can result in flooding

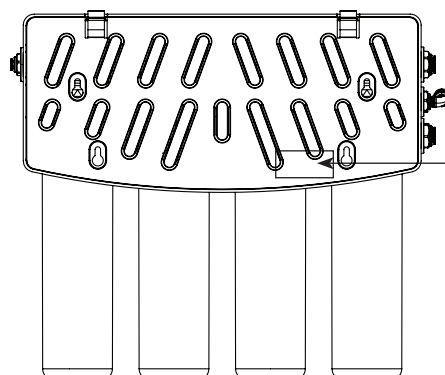
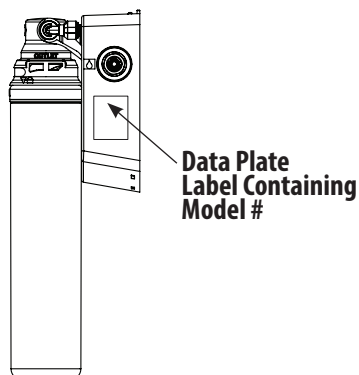
WARNING!: Warning is used to indicate a hazard which could cause injury or death if ignored. Example:

 WARNING!
Electrical shock hazard! Unplug the unit before removing the timer mechanism or cover plates!

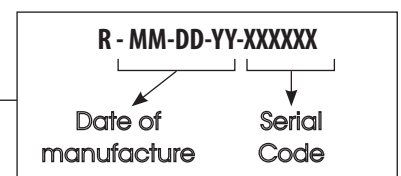
Serial Number

The serial number is located on the rear of the R.O. manifold housing. Record this number on the warranty page located at the end of this manual.

NOTE
Do not remove or destroy the serial number. It must be referenced on requests for warranty repair or replacement.



Serial Number Label



This publication is based on information available when approved for printing. Continuing design refinement could cause changes that may not be included in this publication.


 WARNING!
If incorrectly installed, operated or maintained, this product can cause severe injury. Those who install, operate, or maintain this product should be trained in its proper use, warned of its dangers, and should read the entire manual before attempting to install, operate or maintain this product.

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SPECIFICATIONS AND PERFORMANCE DATA SHEET



QCRO4V-50 system certified by **IAPMO R&T to NSF/ANSI 58 and CSA B483.1** for the reduction of the following substances, as verified and substantiated by test data: Barium, Cadmium, Copper, Fluoride, Hexavalent Chromium, Lead, Arsenic (V) (less than 300 ppb reduction), Radium 226/228, Selenium, TDS, Trivalent Chromium, Turbidity, and PFOA/PFOS.

Model #	Part #	Stage 1	Stage 2	Stage 3	Stage 4	Storage Tank	Faucet
QCR04V-50	1340302-60	Sediment Filter	Activated Carbon Filter	Reverse Osmosis Membrane	Activated Carbon Filter	Metal Tank - 3.2 Gallons	Chrome - AirGap or Standard
*QCR04V-50-PL	1340302-60-PL					Plastic Tank - 3.8 Gallons	
*QCR04V-75	1340303-60					Metal Tank - 3.2 Gallons	
*QCR04V-75-PL	1340303-60-PL					Plastic Tank - 3.8 Gallons	

*These models have not been tested or evaluated by IAPMO

Daily Production Rate* L/day (G/day)..... 76.8 (20.3)

Efficiency Rating% 12%**

Recovery Rating* 21%**

Average Reduction** %..... 85%**

Typical System Flow Sequence Sediment Filter → Activated Carbon Prefilter → Reverse Osmosis Membrane → Storage Tank → Activated Carbon Postfilter → Dispensing Faucet

Sediment Filter (Stage 1)..... 5 Micron

Activated Carbon Prefilter (Stage 2) Carbon Block 5 Micron

Reverse Osmosis Membrane (Stage 3) Thin Film Composite

Polishing Filter (Stage 4)..... Granular Activated Carbon or Carbon Block

Specialty Cartridges Available..... pH Booster; "Scaleless" Scale Reduction

Production Rate¹	QCR04-50	36.5 gpd (138 L/day)
	QCR04-75	55 gpd (284 L/day)

Ratio of Product to Flush Flow²..... Standard Applications 1:3 - 1:5

Storage Capacity Metal – Capacity 3.2 Gallon (12 Liters)
 Plastic - Capacity 3.8 Gallons (14.36 Liters)

¹ Rating at 50 psi, 77°F, 750 mg/L TDS influent, without storage tank. ² May vary with pressure.

* The daily production rate is the volume of product water produced by the system per day and is determined by testing in accordance with the procedure outlined in NSF/ANSI Standard 58.

** System's Efficiency rating as verified by testing in accordance with NSF/ANSI standard 58. Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.

*** System's Recovery rating as verified by testing in accordance with NSF/ANSI Standard 58. System's Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

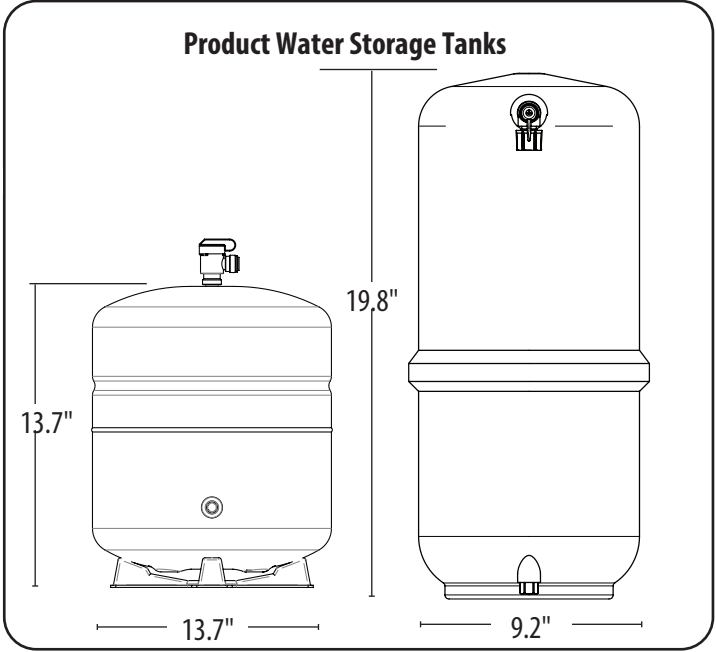
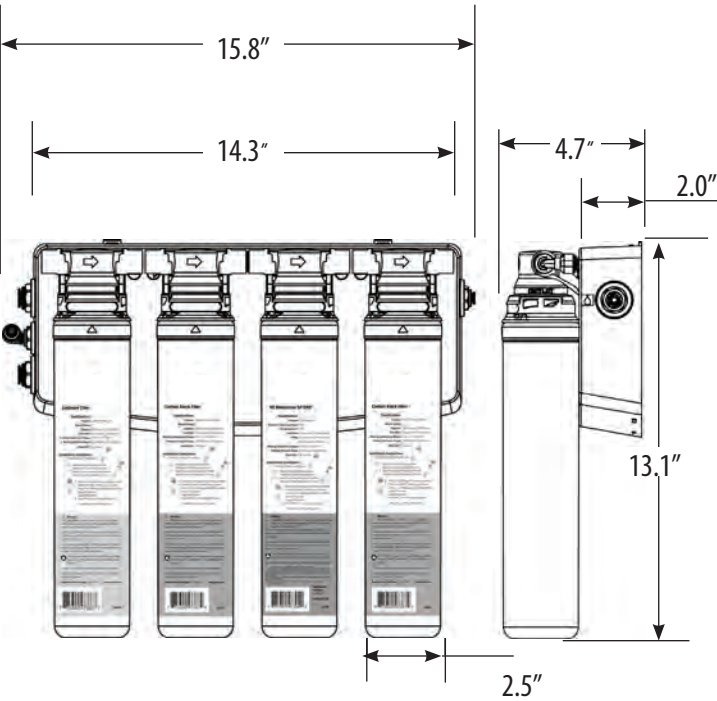
*** Minimum TDS reduction per NSF/ANSI 58 is 187 mg/L. Influent TDS is 750 mg/L.

The manufacture's PDS shall be given to the buyer by the seller and shall be signed and dated by the buyer and the seller prior to the consummation of the sale of the water treatment system and retained on file by the seller for a minimum of two years.

Seller	Date
--------	------

Buyer	Date
-------	------

DIMENSIONS



Recommended Influent Water Characteristic	
Pressure	40 - 100 psi
Temperature	40 - 77 °F
Total Dissolved Solids (TDS) ¹	0 - 2500 ppm (0 - 2500 mg/L)
pH	5 - 10
Chlorine ²	0 - 3 ppm (0 - 3 mg/L)
Chloramine	0 - 3 ppm (0 - 3 mg/L)
Turbidity	0 - 10 NTU
Hardness ³	0 - 10 gpg
Iron	0 - 1 ppm (0 - 1 mg/L)
Bacterial Quality	Potable

Notes

1. A booster is strongly recommended to improve the reduction of TDS. Higher pressures will help maintain the membrane's maximum rejection performance.
2. The reverse osmosis membrane used in these systems may be damaged by chlorine. These systems include activated carbon filters which protect the membranes by reducing chlorine. Influent chlorine should not exceed 3 mg/L.
3. A softener is strongly recommended for water over 10 gpg hard. Installing a system without a softener on water with hardness higher than 10 gpg will reduce the life of the membrane.
4. Additional information on factors that affect RO performance can be found in the "Performance & Technical Information" section.

FILTER CARTRIDGE SPECIFICATIONS

	Part #	Purpose	Micron Rating	Capacity	Flow Rate	Working Temperature Range	Working Pressure Range	Rated Life*	STAGE
Sediment Filter	41407001	Sediment Reduction	5	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	1
Carbon Block Filter	41407002	Chlorine Taste and Odor	5	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	2 or 4
Carbon Block Filter - 50 Micron	41407006	Chlorine Taste and Odor	50	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 Months	2
GAC Carbon Filter	41407004	Polishing - Taste and Odor	—	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	4
pH Booster Filter Cartridge	41407007	Raise pH of water and removal of chlorine, taste and odor	—	750 gallons (2835 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	4
UF (Hollow Fiber) Membrane	41407005	Ultra Fine Filtration	0.2	2000 gallons (7570 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	12 Months	3
Carbon Block – 1 Mic Filter	41407009	Chlorine Taste and Odor, Particulate Reduction	1	750 gallons (2835 liters)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	207-689 kPa (30-100 psi)	6 to 12 Months	2 or 4

	Part #	Purpose	Recovery (Product Water/ Inlet Water)	TDS Reduction**	Rating***	Flow Rate	Working Temperature Range	Working Pressure Range (1)	Rated Life*	STAGE
RO Membrane 50 GPD	41407003	TDS Reduction	21%	85%	50 gallons/day (189 liters/day) (No Storage Tank Attached)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	50-120 psi (345-828 kPa)	36 Months	3
RO Membrane 75 GPD	41407008	TDS Reduction	21%	85%	75 GPD (284 LPD) (No Storage Tank Attached)	0.5 gal/min (1.9 liters/min)	4-38° C (40-100° F)	50-120 psi (345-828 kPa)	36 Months	3

* The performance and life of a reverse osmosis membrane or filter element is highly dependent upon pressure, temperature and dissolved solids (TDS).

**Manufacturer's Specification only with inlet conditions of 345 kPa (50 psig), 25° C (77° F), going to atmosphere. The actual volume of product water and rejection percentage will vary with differences from the test conditions that membrane ratings are based upon.

(1) Pressure Regulator is recommended for feed water pressures exceeding 552 kPa (80 psig).

PERFORMANCE DATA SHEET

Contaminant Reduction Table: Model QCR04V-50

This system has been tested according to NSF/ANSI Standard 58 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 58.

Substance	Influent challenge concentration mg/L	Maximum permissible product water concentration mg/L	Minimum % Reduction	Average % Reduction
Arsenic (+5) [†]	0.30 ± 10%	0.010	98.7	99.6
Barium	10.0 ± 10%	2.0	97.7	98.8
Cadmium	0.03 ± 10%	0.005	97.3	98.8
Chromium (+6)	0.3 ± 10%	0.1	97.6	99.1
Chromium (+3)	0.3 ± 10%	0.1	99.6	99.7
Copper	3.0 ± 10%	1.3	98.3	99.0
Fluoride	8.0 ± 10%	1.5	96.3	97.7
Lead	0.15 ± 10%	0.010	99.3	99.3
Radium (226/228)	25 pCi/L ± 10%	5 pCi/L	80.0	80.0
Selenium	0.10 ± 10%	0.05	97.8	98.1
Turbidity	11 ± 1 NTU	0.5 NTU	96.7	98.9
TDS	750 ± 20%	187	84.5	85.1
Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS)	0.0015 ± 10%	0.00007	98.77	99.26

[†] This appliance has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.30 mg/L or less. This appliance reduces pentavalent arsenic, but may not remove other forms of arsenic. This appliance is to be used on water supplies containing detectable free chlorine residual at the appliance inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section.

Arsenic Facts

Arsenic (abbreviated As) is found naturally in some well water. Arsenic in water has no color, taste, or odor. It must be measured by a laboratory test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested.

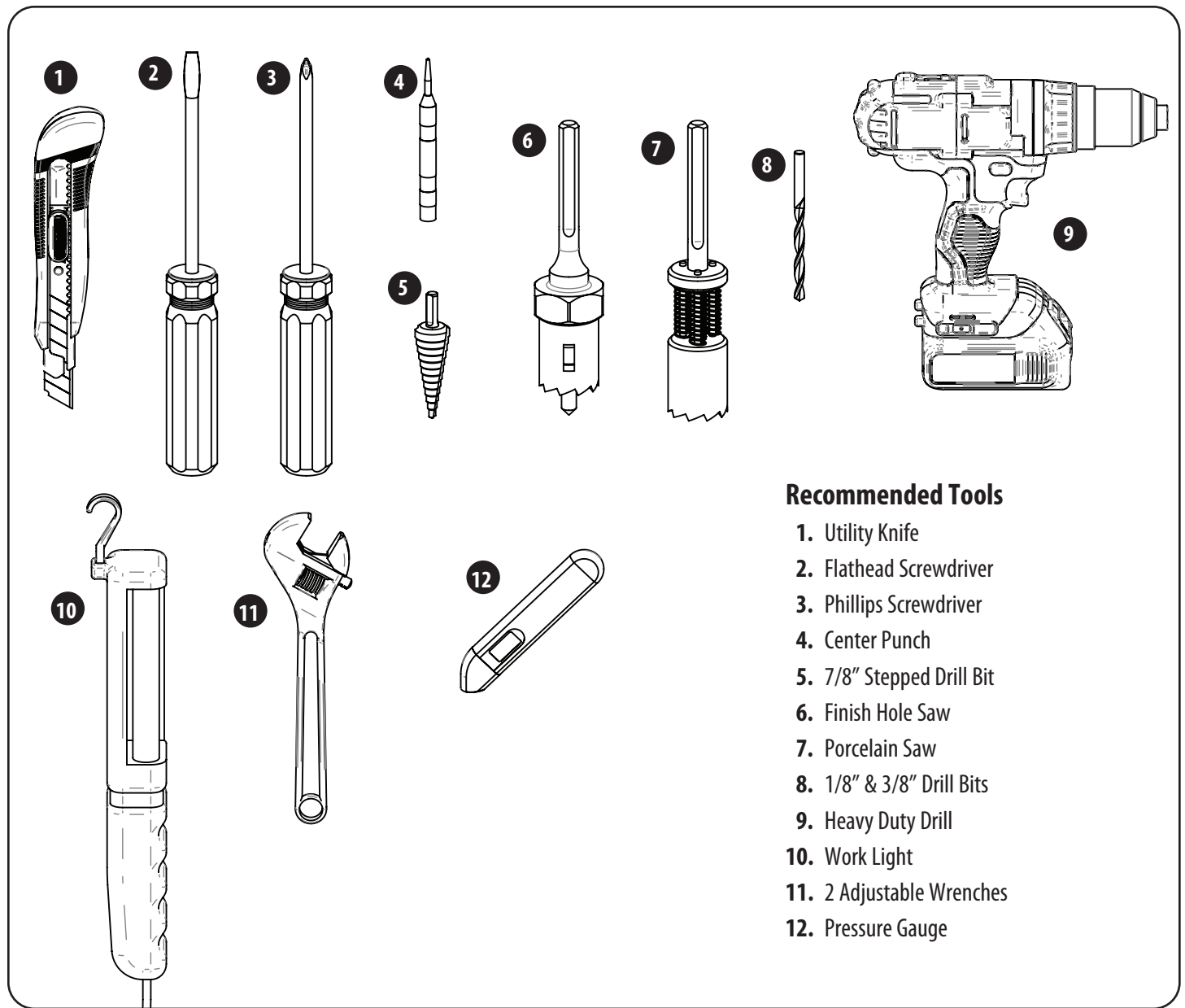
The local health department or the state environmental health agency can provide a list of certified labs. The cost is typically \$15 to \$30. Information about arsenic in water can be found on the Internet at the U. S. Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html. There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Reverse osmosis (RO) water treatment systems do not remove trivalent arsenic from water very well. RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system. The QCR04V-50 system is designed to remove pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. The system was tested in a lab. Under testing conditions, the system reduced [0.30 mg/L (ppm) or 0.050 mg/L (ppm)] pentavalent arsenic to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check whether the system is working properly.

The RO component of the QCR04V-50 system must be replaced every three (3) years to ensure that the system will continue to remove pentavalent arsenic. The component identification and locations where you can purchase the component listed in this installation/operation manual.



SUGGESTED INSTALLATION EQUIPMENT



OVERVIEW OF THE RO SYSTEM'S COMPONENTS

1 RO Manifold Assembly

The manifold assembly serves as the functional hub of the system by directing the flow through each of the system's main components.

2 Sediment Filter

The sediment filter screens out particulate material, such as dirt, sand, or rust, which may clog the other filters in the system.

3 Activated Carbon Prefilter

The activated carbon prefilter reduces chlorine which may damage the RO membrane filter. It must be regularly checked and/or replaced to prevent premature membrane failure and poor water quality.

4 Reverse Osmosis Membrane

The RO membrane (4) reduces dissolved substances and other microscopic impurities. It consists of a membrane envelope wound around a perforated tube. Product water diffuses through the membrane to the inside of the envelope where it flows to and is collected by the tube. Impurities are flushed away in the drain stream.

The RO membrane featured in the system offers exceptional contaminant rejection, application versatility, and long life. The membrane material is sensitive to an attack by chlorine. The activated carbon filter must be maintained properly to prevent premature failure of the RO membrane.

For long term storage the RO membrane should be refrigerated to maximize performance once used. **DO NOT ALLOW TO FREEZE.**

5 Polishing Filter

The polishing filter (5) adsorbs any residual tastes and odors just before the water is delivered through the faucet.

6 Drain Line Flow Control

The flow control assembly or concentrate flow control (6) regulates the flow rate of the flushing (drain) stream and to maintain pressure in the RO membrane filter.

7 Automatic Shutoff

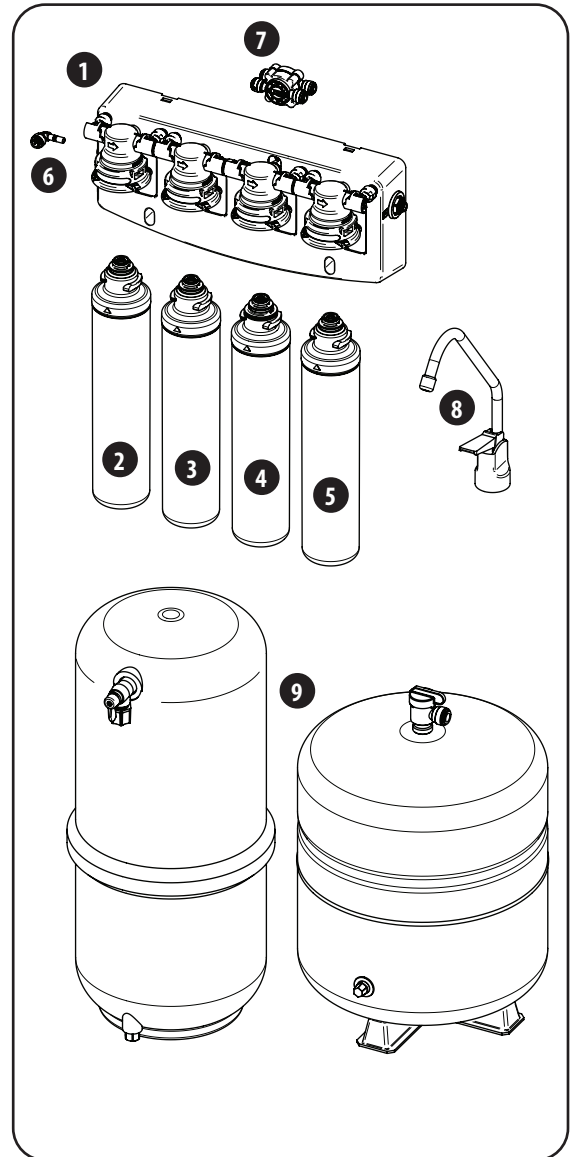
The automatic shutoff (7) automatically stops the flow of water through the system when the storage tank is full.

8 Dispenser Faucet

The faucet (8) allows the product water to be drawn from the system with a simple rotation of the handle. This air gap style faucet prevents the unit from siphoning drain water back into the system. It features a built-in siphon break for concentrate discharge as required by most plumbing codes.

9 Storage Tank

The storage tank (9) collects and stores the water produced by the RO system. A compressed air diaphragm drives the water to the polishing filter and faucet. The ball valve (11) provides a convenient way to lock water in the tank during transport and filter changes.



NOTE

Cleanliness is essential in the preparation procedure. Be sure to wash your hands thoroughly before handling filters. The use of surgical gloves is strongly recommended.

PACKAGE CONTENTS

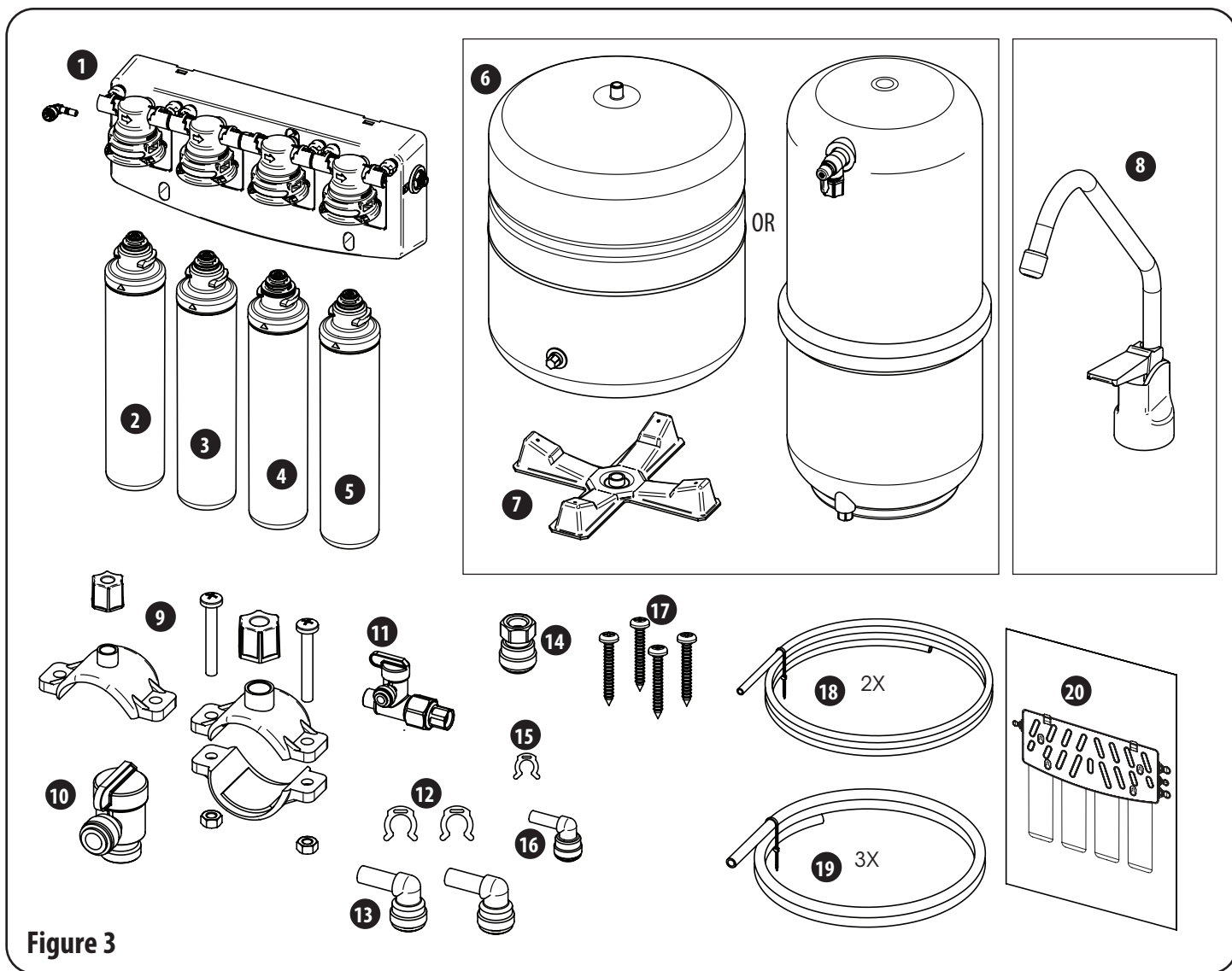


Figure 3

- | | | |
|----------------------------------|--------------------------------|--|
| 1. RO Manifold with Flow Control | 9. Drain Saddle (1/4" or 3/8") | 17. 4X #10 Phillips Self Tapping Screws |
| 2. Sediment Filter | 10. Tank Shut-off Valve | 18. 1/4" Tubing (4 ft. White;
4 ft. Red) |
| 3. Carbon Block Filter | 11. T Adapter | 19. 3/8" Tubing (4 ft. White;
4 ft. Red;
4 ft. Blue) |
| 4. RO Membrane | 12. 2X Locking Clip (3/8") | 20. Installation Template Sheet 11X17 |
| 5. Carbon Block Filter | 13. 2X 3/8" Elbow | |
| 6. Metal or Plastic Storage Tank | 14. Faucet Adapter | |
| 7. Tank Base (Optional) | 15. Locking Clip (1/4") | |
| 8. Faucet and Hardware | 16. 1/4" Elbow | |

PRODUCT INFORMATION

This manual covers the technical aspects of Quick Change drinking water systems. It is important to read this manual thoroughly so that you can properly apply, install, and service these systems. The substances reduced by this system are not necessarily in the customer's untreated water.

Warranty

A limited warranty is extended to the original end user from Canature WaterGroup. This warranty is printed on the back cover of this guide.

Application Guidelines

The system is designed for use on potable water supplies meeting the guidelines outlined in **table on page 5**. The system should be installed on a home's cold water line. The flushing stream should discharge through an approved siphon break. Installation of this system must comply with state and local laws and regulations.

Package Content

The system is shipped from the factory in carton:

NOTE

The filter elements are shipped in their own sealed packaging. This will help to simplify preparation of the system and to maximize the shelf life of the RO membrane element.

PREPARATION

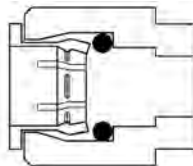
Tubing Connectors

The system features reliable and convenient push-to-connect tubing connectors. Tubing is easily connected and disconnected from these fittings as follows.

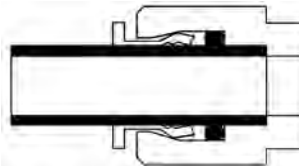
Quick-Connect Fitting

Insertion & Removal of Plastic or Copper Tubing

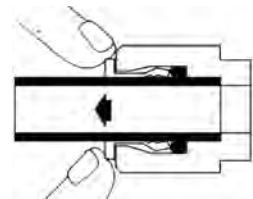
1. Simply push in tube to attach.



2. Tube is secured in position.



3. Push in collet from both sides to release tubing.



Connect:

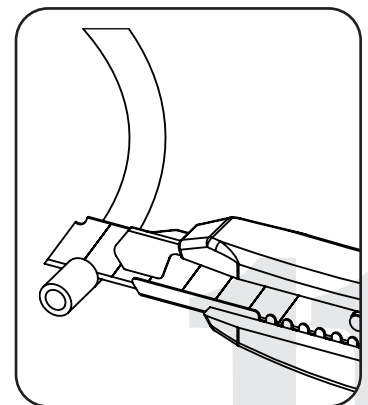
Cut the tubing squarely with a sharp knife. Be careful not to crush the tubing. To avoid leaks, make sure the tubing end is smooth and free of burrs and abrasions. Lubricate the end of the tube with water or a light coat of silicone and push the tube end firmly into the fitting. You should feel it push past the O-ring. Avoid bending the tubing sharply away from the fitting.

Disconnect:

Hold the collar against the fitting body and pull the tube from the fitting.


In the unlikely event that the connection leaks, remove and recut the tubing. Check the inside of the fitting for debris or O-ring damage. Reconnect.

Push-to-connect tubing connectors grip the outside diameter of the tube. To help assure a reliable connection, it is important to use high quality tubing with a consistent outside diameter.

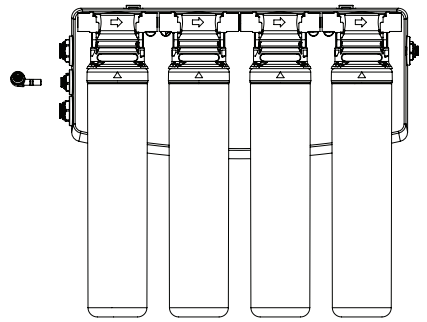


1. Cut tube squarely with a sharp knife.

Verify Flow Control Location

The RO manifold comes attached with the elbow fitting flow control. This flow control is attached to the manifold by quick disconnect fitting which allows it to be easily changed. Verify it is properly located in the outlet next to the  symbol.

Flow Restrictor

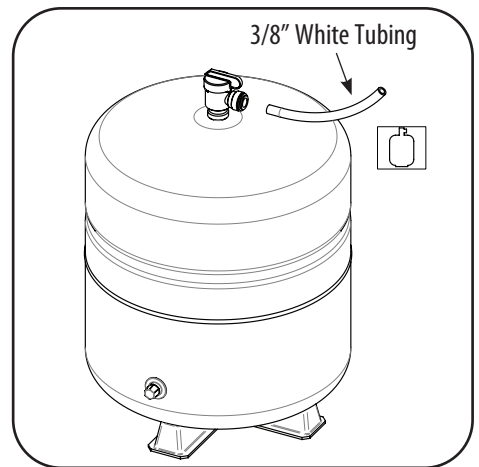
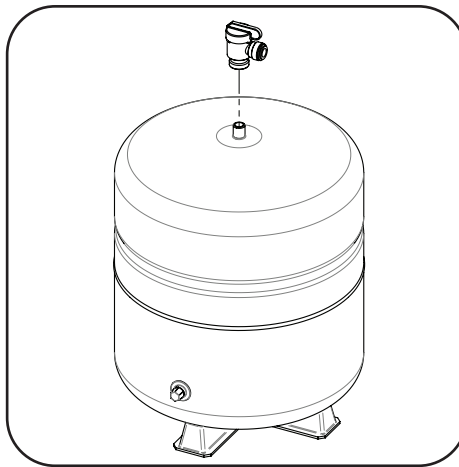
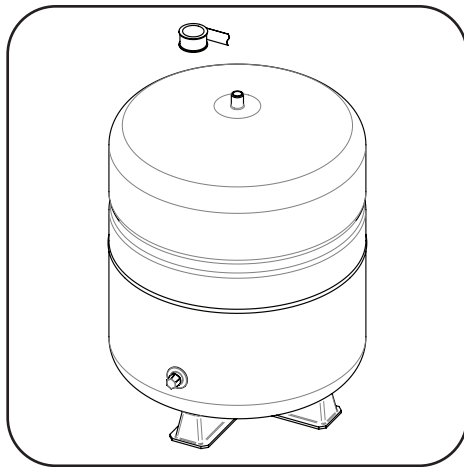


Storage Tank Preparation

NOTE

Changing the air pressure will alter the amount of water stored in the tank. Increasing the pressure will decrease capacity while decreasing pressure will increase capacity.

Install Tank Shut-off Valve



1. Apply teflon (PTFE) tape to threaded fitting at top of tank. Wrap tape around clockwise 3 to 6 times for a good seal.

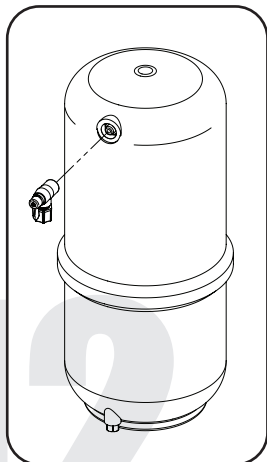
2. Attach shut off valve.

3. Connect white 3/8" tubing to tank.

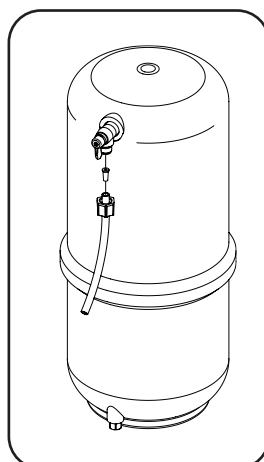


WARNING!

Do not use the tank ball valve to lift or carry the tank.



1. Attach Shutoff valve



Plastic Tank

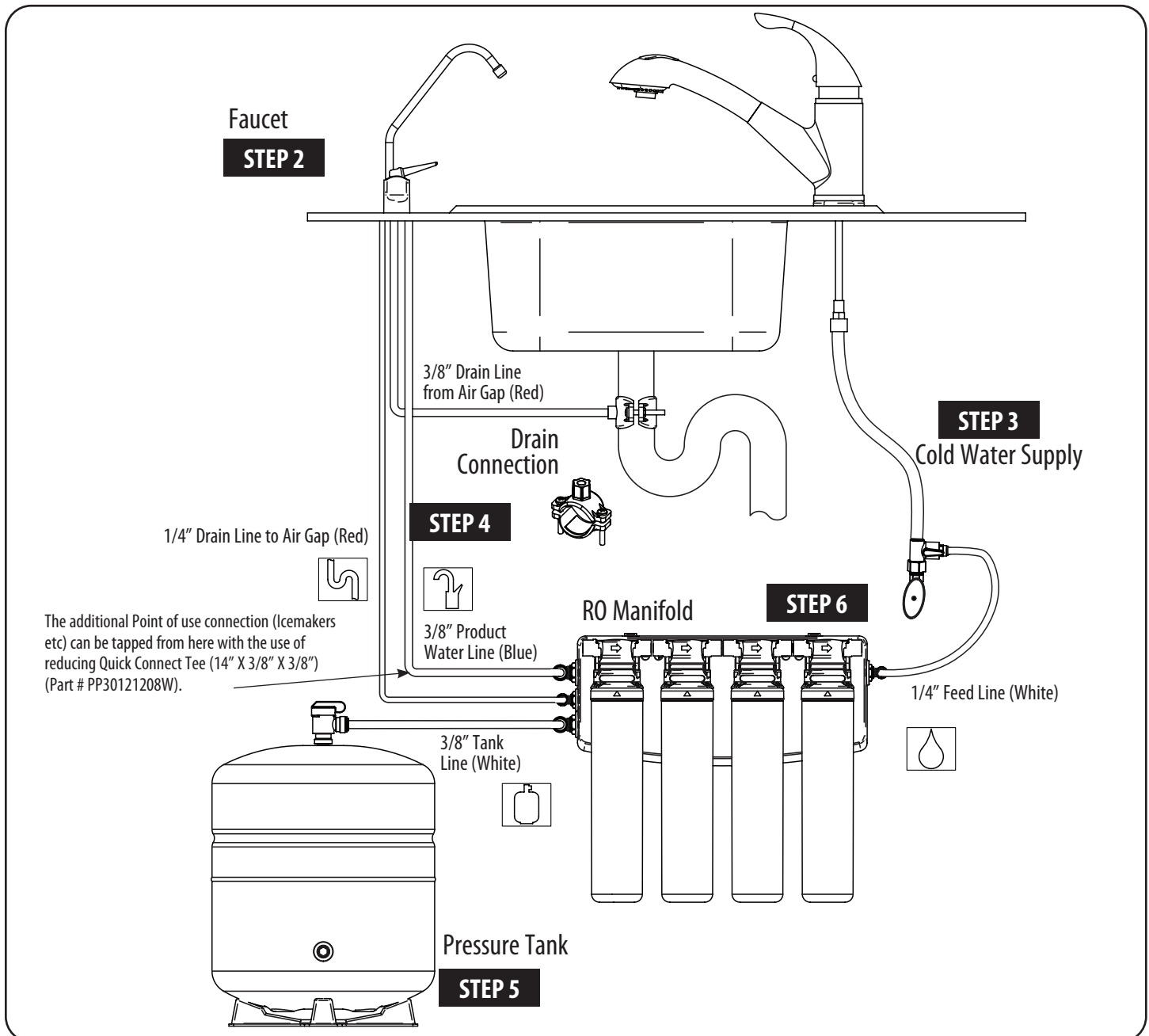
2. Slide compression nut over end of 3/8" white tubing, place the insert in the end of the tube. Connect the white 3/8" tubing to tank using the compression nut.

INSTALLATION

The exact placement of the components will vary by installation. Although shown beneath a sink, it may be installed in a basement, crawl space, or in an adjacent cabinet. Regardless of where the system is installed, the flow sequence described in the diagram below must be observed.

The drinking water system is designed to be mounted near a sink for easy access to cold water and drain lines. Lengths of 1/4-inch and 3/8-inch OD plastic tubing will be required to make this installation.

Evaluate the installation site to determine the easiest path for the plumbing to follow. Take care to make the installation as neat as possible.



NOTE

Install the 3/8" red drain line from the air gap faucet to the drain adapter so that it runs downward with no loops or low spots. Otherwise the unit will overflow at the air gap siphon break built into the faucet, or make irritating gurgling sounds.

For standard faucet (non-air gap) installations simply route the drain line directly to the drain connection.

INSTALLATION (CONTINUED)

The following steps will enable you to install the system quickly and orderly. Some variation may be necessary depending on the installation. See **page 8** for a check list of tools and materials.

Typical installations follow this sequence:

1. Select Component Installation Locations
2. Faucet Installation
3. Install Adapter Valve on Water Supply
4. Connect System Drain
5. Install Reservoir Tank
6. Install Filter System Assembly
7. Start-Up

STEP 1 – Select Component Installation Locations

- **Dispenser Faucet** – The faucet is designed to be mounted on the rear lip of the sink. It may be installed in an existing sprayer attachment hole or in a hole drilled at the time of installation. It may also be mounted to an adjacent counter top. It should be positioned so that water is dispensed over the sink. A 7/8" diameter hole is required.

Important considerations:

- Access to the bottom (undersink) of the faucet is required for attachment of product water line.
- There should be no undersink obstructions which would prevent smooth tubing runs to the drain connection, or RO module assembly.
- **Filter System Assembly** – The filter system assembly is designed to be mounted on any rigid vertical surface such as a cabinet sidewall, sheet rock in exposed stud. It should be positioned such that there is access to an inlet water source and drain. The installation should also allow convenient access for servicing.
- **Inlet Water Supply Connection** – Once a location is chosen for installation of the filter system assembly, select a nearby cold water line to provide the water source for the system.

NOTE

Follow all local plumbing codes when connecting to service water.

- **The Reservoir Tank** – Position the reservoir tank near the faucet for optimum convenience. The reservoir tank will weigh about 28 pounds (13 kg) when full of water, so it must be positioned on a stand. The reservoir operates best in the vertical position, but it will operate on its side.
- **Drain Connection** – The most convenient entry to the drain is directly above the P-trap of the kitchen sink. However, the drain water from the system can be connected to adjacent sinks or a floor drain. Extra care should be taken when entering drains near dishwashers or food waste disposals as back flow may occur through the air gap and cause flooding.

NOTE

Follow all local plumbing codes when connecting to drain.

INSTALLATION (CONTINUED)

STEP 2 – Faucet Installation

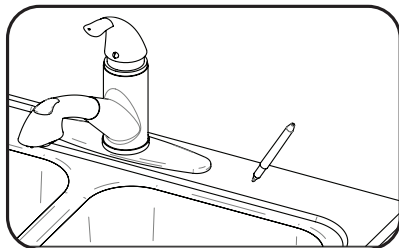
To simplify its access and installation, we suggest you install the faucet on the rear lip of the sink. It should be evenly positioned with the sink faucet and spray attachment. Should the spray faucet hole not be available for the installation, the sink must be drilled.

NOTE

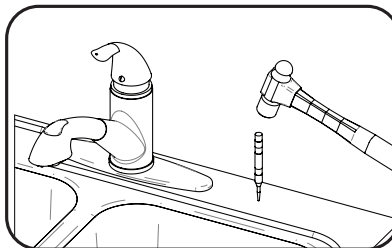
It is recommended retaining the services of a professional counter top craft person when a hole is needed in granite or other specialty counter top materials.

Sink Drilling Instructions

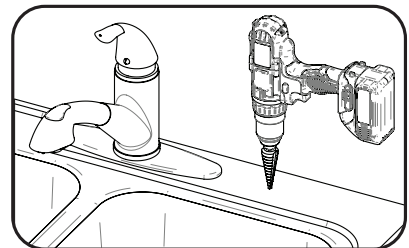
Stainless Steel Sink



1. Select and mark the proper faucet location.



2. Center punch hole to provide a starting point for your drill.

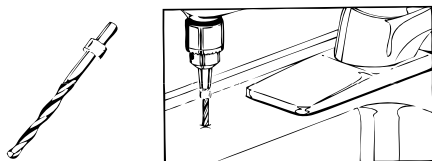


3. Drill a 7/8" hole in the sink using a stepped 7/8" drill bit. If no stepped bit is available, start by drilling a 1/4" hole. Using this hole as a starting point progressively drill larger holes. Increase drill size by 1/8" until you reach a 7/8" hole.

Porcelain Enamel Sink

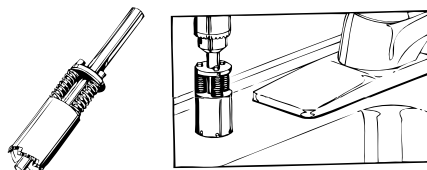
Follow these basic guidelines when drilling a porcelain sink:

Pilot Drill



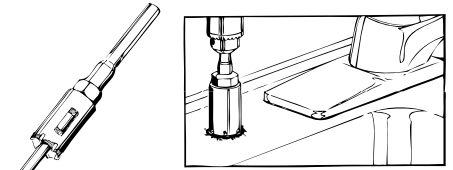
Penetrate the porcelain to the base material.

Spring Loaded Porcelain Saw



Protect the surrounding porcelain material

Finish Hole Saw



Use the appropriate tool to drill the base material.

One proven tool is the Relton porcelain cutter kit when used with a slow speed drill (300-400 rpm).

- Drill a pilot hole through the porcelain and base material with the carbide tip drill.
- Build a putty dam around the drill area. Add enough water to lubricate cutters and reduce cutting noise
- Insert the porcelain cutter into the drill. Place the drill tip in the pilot hole. Check for free movement.
- Apply light pressure to the cutter tool and start the drill motor at low speed (300-400 rpm). When the initial cut has been made in the porcelain speed may be increased. After a complete ring has been cut through the porcelain, change over to the metal cutter. Avoid contacting the outer rim of cut porcelain when drilling.



CAUTION!

Avoid high drill speed during penetration of porcelain. A single speed drill can be used at a slow speed by switching it on and off quickly.

INSTALLATION (CONTINUED)

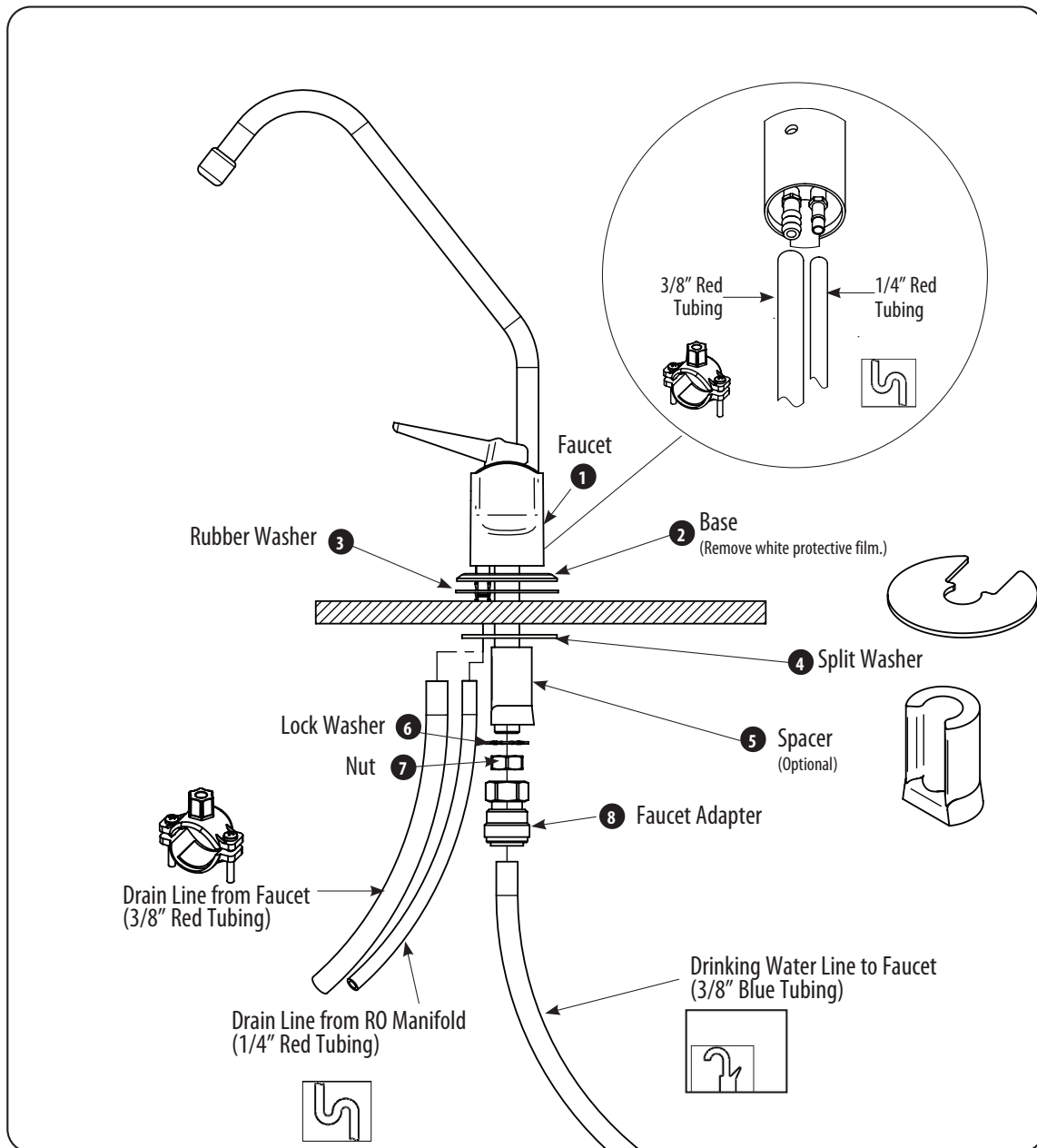
Porcelain Enamel Sink (Continued)

- Use a slow speed and light pressure to cut away the porcelain.
- Stop when you reach the metal under the porcelain. Remove the cutter and clean the porcelain chips from the surface. Continue cutting through the metal.

NOTE

Ceramic tile counters should be treated like porcelain when penetrating the surface, then treated as metal to complete the hole with carbide drills. Formica countertops can be drilled with a high-speed wood drill.

Air Gap Faucet (Standard)



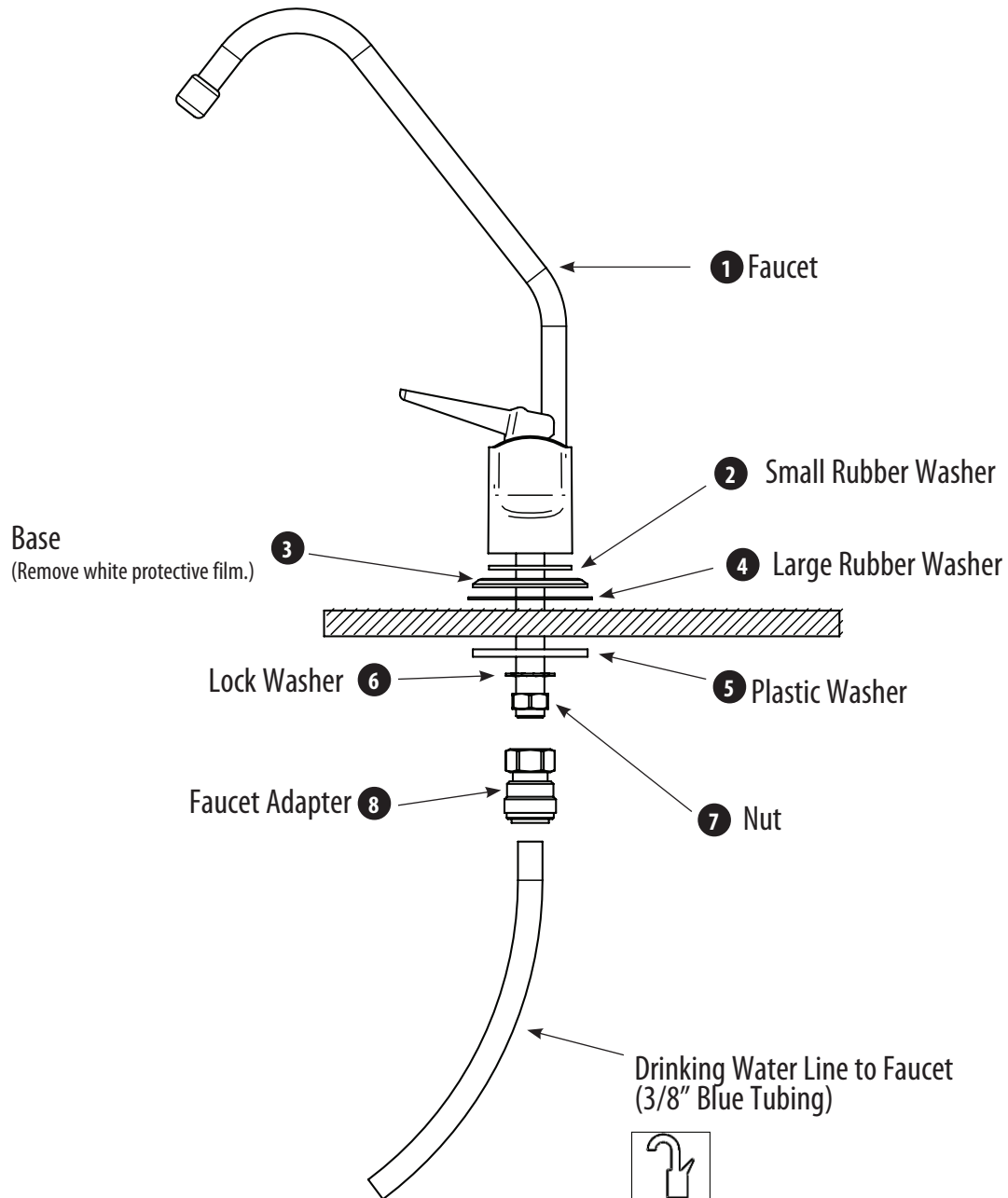
NOTE

The spacer is required for stainless steel sinks and thin counter tops. If sink is being installed on a thick (5/8" or thicker) counter the spacer is not required. Remove white protective film from faucet base.



INSTALLATION (CONTINUED)

Non Air Gap Faucet (Optional)



Standard Faucet Installation

1. Remove white protective film from faucet base. Install faucet body, small rubber washer, metal base, and large rubber washer above sink (items 1-4).
2. Install plastic washer, lock washer and nut (items 5-7) onto faucet stem below sink and tighten. Be sure to properly align the faucet.
3. Install the faucet adapter (item 8). Connect the 3/8" blue tubing to the faucet adapter.

NOTE

If installing a standard faucet the red 1/4" drain line will be installed directly to the drain. Disregard the instructions on the following page.

INSTALLATION (CONTINUED)

Air Gap Faucet Installation

Remove white protective film from faucet base. Verify faucet body, metal base, and rubber base washer are in place above sink (**Items 1, 3, and 2, page 17**). Lower faucet into mounting hole and place faucet over hole.

Install slotted washer, spacer, faucet washer, and nut onto faucet nipple below sink and snug them up (**Items 4, 5, 6, 7 and 8, page 17**). Be sure to properly align faucet before tightening. Do not over tighten. Install faucet connector (**Item 9, page 17**), packaged with faucet, onto faucet nipple.

The spacer is typically necessary on stainless steel sinks and thin counter tops. If counter top or sink is too thick (5/8" or thicker) remove the spacer from the installation.



CAUTION!

Plastic Parts will break if screws are over tightened!

Tubing Connections

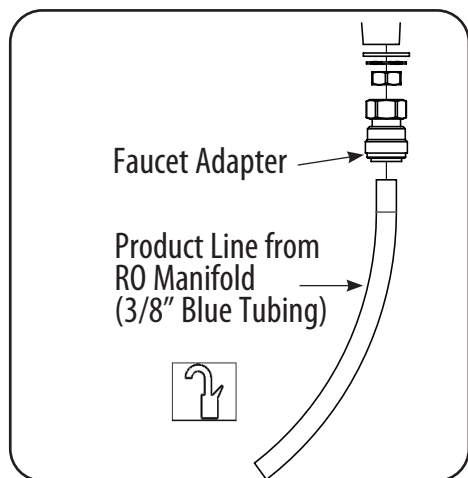
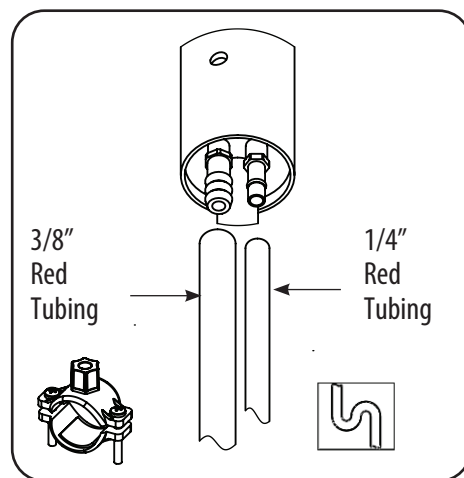
1. At the bottom of the faucet assembly you will find three tubing connections; 2 are barbed and one is a push in type fitting.
2. For the Air gap you will use the 2 barb fittings, the smaller fitting is for the 1/4" tubing and will be connected to the RO system. The larger barb fitting will use the 3/8" tubing and will be connected to the drain.

NOTE

If you have difficulty fitting the tubing onto the barbed fittings, try running hot water over the end of the tubes.

NOTE

Cut the tubing to be longer than what you will need because you will be able to trim it after you install the faucet assembly. Prepare the tubing with a fresh cut and make sure that it is free of dirt and any foreign materials.



3. Take another length of 3/8" tubing and make sure it is has a fresh cut and is free of foreign materials and any scratches on the outside surface. Install the tubing into the push in type fitting at the base of the faucet. Make certain that it is inserted all the way in; once inserted give it a slight pull to make sure it is locked into the fitting. You have now completed the tubing connections.

NOTE

To disconnect tubing from the product water fitting, hold the collet firmly against fitting body and pull the tube from the fitting. Repeated assembly and disassembly will cause wear to the inner body. Visually inspect for excessive wear and replace the inner body as needed to protect against any leaks.

Cleaning the Faucet

Wipe the faucet with a soft cloth, avoid abrasive cleansers.

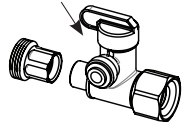
INSTALLATION (CONTINUED)

STEP 3A – Install Adapter Valve on Water Supply (Part # ASVPP5LF)



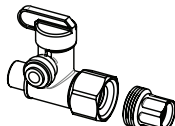
The Adapter valve should be connected to cold water supply only.
Connection to hot water supply will damage the system and will void all warranty

Adapter



1/2" Configuration

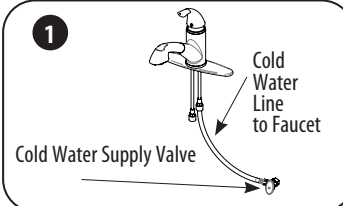
or



3/8" Configuration

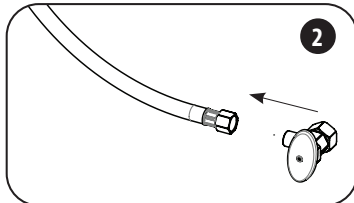
Before installing the adapter valve onto the supply line, install the adapter as needed. The conversion adapter can be threaded to either side of the valve to allow the valve to fit both 1/2" and 3/8" supply lines.

1



1. Shut off water at supply valve.

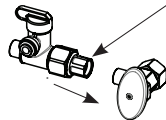
2



2. Disconnect hose from supply valve.

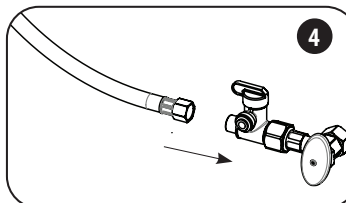
3

Verify the gasket is properly seated



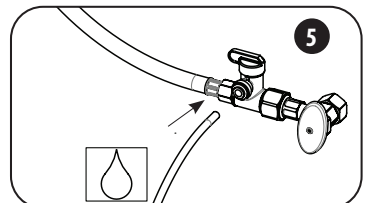
3. Install adapter valve on supply valve.

4



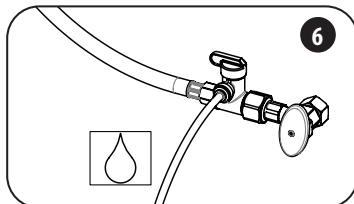
4. Connect riser hose to adapter valve.

5



5. Insert tubing into quick connect fitting on valve.

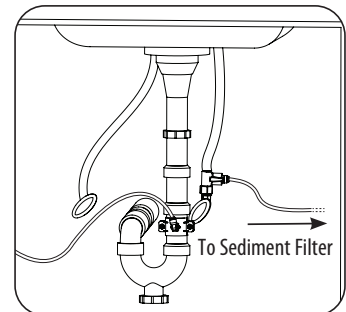
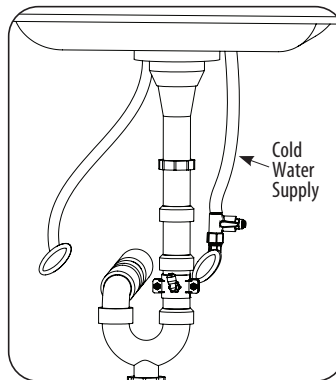
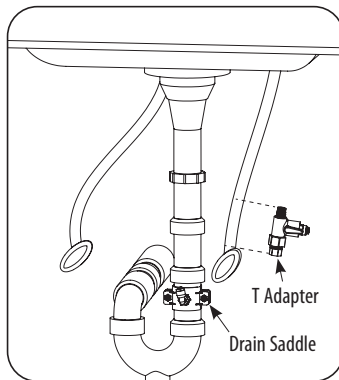
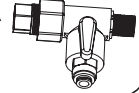
6



6. Open the cold water supply valve and check for leaks.

STEP 3B – Install T Adapter Valve on Water Supply (Part # 60010643)

T Adapter



INSTALLATION (CONTINUED)

STEP 4 – Connect System Drain

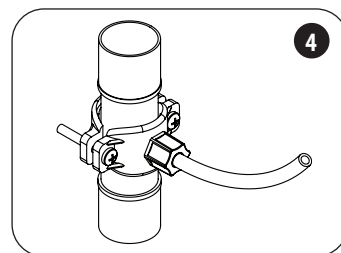
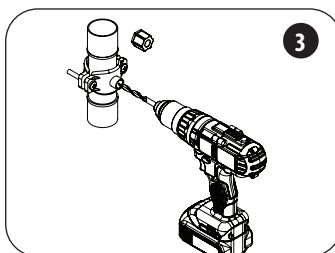
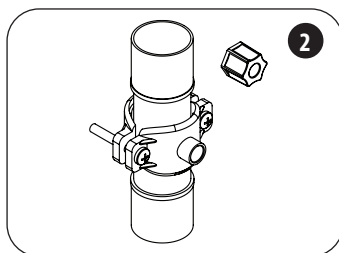
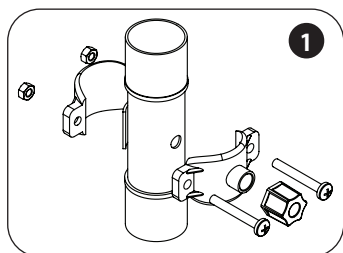
Plumbing codes require that the drain from reverse osmosis drinking water systems be discharged through an air gap siphon break. The faucet incorporates an air gap into its body. The discharge from the air gap must be connected to the plumbing system for proper drainage. This connection can usually be made beneath the sink. Incorrect installation may result in overflow of the air gap or excessive noise. If the concentrate water is discharged to an open drain, the air gap may not be necessary.

For Air Gap installations select the 3/8" saddle, for Standard installations use the 1/4" saddle.

Connections to undersink plumbing can be made with a saddle clamp designed to accept the drain tubing from the faucet. Drain Saddle Kit is supplied for 1-1/2" undersink drain plumbing (see diagram below). **Be sure to check and follow local plumbing codes prior to installation.**

NOTE

For installation in Massachusetts, Plumbing Code 248 CMR shall be adhered to. Consult your licensed plumber for installation of this system. The use of saddle valves is not permitted in Massachusetts.



1. Install the drain saddle valve on to the drain pipe. See figure 7 on page 9 for its location. Use 3/8" saddle for air gap faucets or 1/4" saddle for standard faucets.
2. Tighten the clamps with the help of the two bolts.
3. For standard faucets drill a 1/4" hole through one side of the pipe. For air gap faucets drill a 3/8" hole. The drill should be kept straight and centered to avoid damaging the saddle valve. Do not drill through both sides of the pipe!
4. Attach 3/8" or 1/4" red tube by slipping the tube through the black compression nut and hand tighten the nut on to the saddle valve.



WARNING!

Do not overtighten.



WARNING!

Do not drill through both sides of pipe!



CAUTION!

The drill should be kept straight and centered to avoid damaging the saddle valve.

Many homes are equipped with disposals and dishwashers. Special care must be taken when these appliances are present to prevent improper air gap performance. Home drain plumbing must be free of any blockage since this may cause a backup of dishwasher and disposal waste into the air gap outlet tube and result in improper air gap performance.

To perform a simple drain check, fill the sink basin with several inches of water, pull the plug, and observe the drainage. If water backs up into the second sink (if present), or if drainage is slow or there is excessive gurgling, drain blockage may be present.

Undersink drain plumbing usually resembles one of the following descriptions. In all cases, the drain tubing from the air gap (RO outlet) should run downward, free of dips and loops. The air gap outlet must not be connected to the effluent side of the trap. This can vent sewer gas, which will produce foul odors.

Single basin sink without disposal

- Connect the RO outlet to the tailpiece directly beneath the sink.
- If a dishwasher drain connection is present, the RO outlet must be connected above it.

Single basin sink with disposal

- Connect the RO outlet to the dishwasher drain port on the disposal if available.
- If the dishwasher drain port is not available, other arrangements must be made such as running the RO outlet to a basement sump.
- Do not connect the RO outlet to the plumbing below the disposal.

INSTALLATION (CONTINUED)

STEP 4 – Connect System Drain (continued)

Double basin sink with disposal, single trap

- The fitting which joins the drains from the disposal and second sink should be directional. If not, then we recommend that it be replaced.
- Connect the RO outlet to the tailpiece just below the second sink.
- If a dishwasher drain is present and cannot be relocated, the RO outlet must be connected above it.

Double basin sink with disposal, double trap

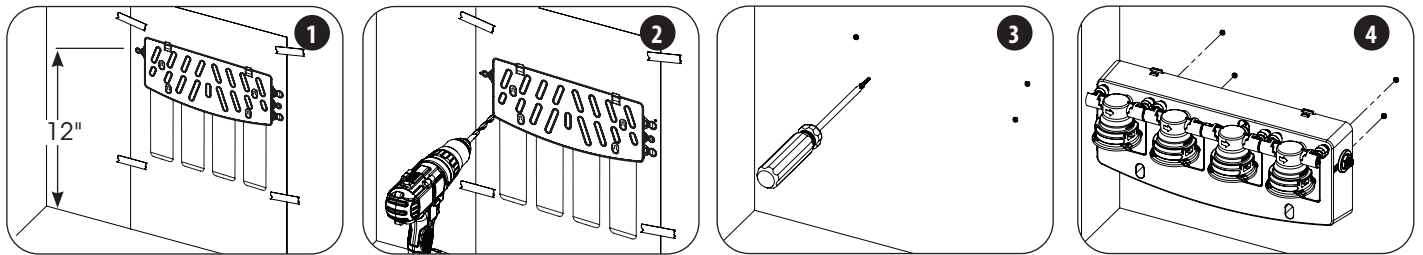
- Connect the RO outlet to the tailpiece just below the second sink.
- If a dishwasher drain is present and cannot be relocated, the RO outlet must be connected above it.

STEP 5 – Install Reservoir Tank

Place the reservoir tank in the location previously selected.

STEP 6 – Install Filter System Assembly

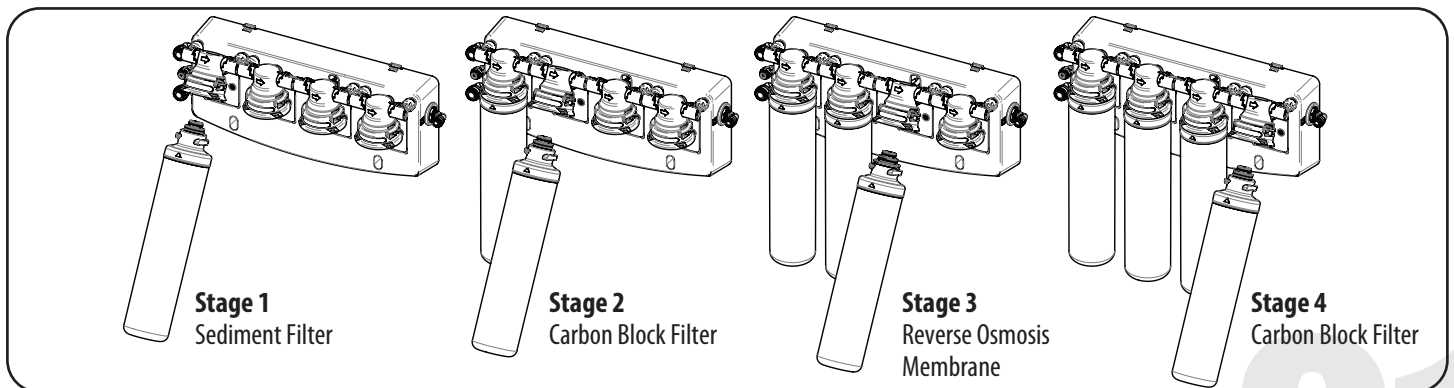
The mounting bracket contains four mounting slots. The holes are sized to accept #10 round head wood screws (supplied). Some types of surfaces such as particle board or drywall, may require the use of plastic screw anchors or toggle bolts to provide adequate support for the unit.



1. Tape the paper template included with this unit to the wall with the base of the template on the bottom of the cabinet (or higher). Be sure to leave adequate space (8 1/2" or more from the centerline) on both sides of the template.
2. Drill 1/8" hole at each location as indicated on the template.
3. Remove template. Thread one of the included wood screws into each hole leaving approximately a 1/2" space between the screw head and mounting surface.
4. Hang the bracket on the mounting screws. If unit is loose, tighten the screws further.

Install Filter Cartridges

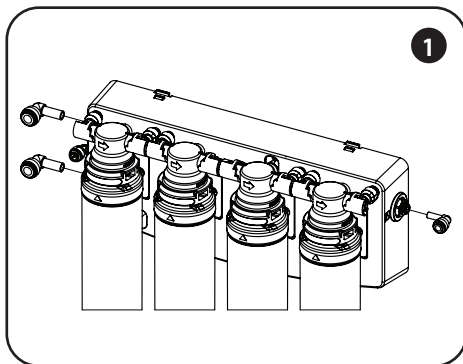
1. Twist the cartridge to lock it into the manifold. (as shown)



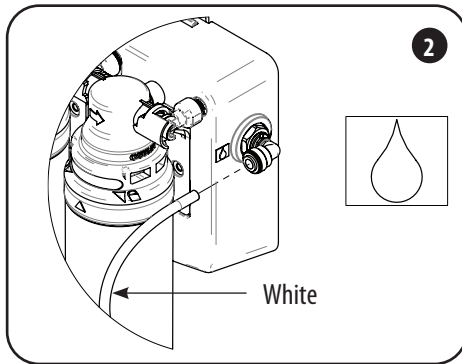
INSTALLATION (CONTINUED)

Connect System

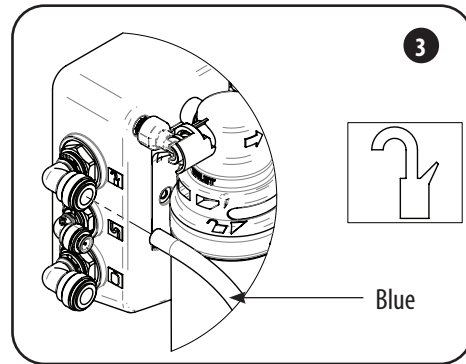
When cutting plastic tubing, use a sharp utility knife. Cut the tubing squarely. **See page 11 for cutting and connecting tubing.**



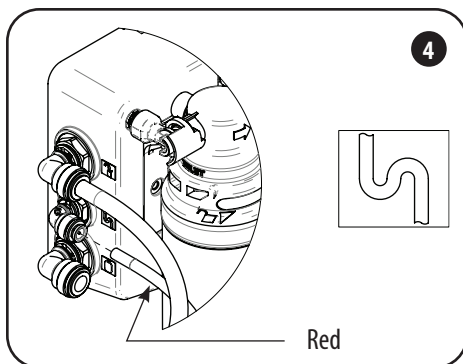
1. Connect quick connect elbows to the three open connection locations on the unit. Firmly push the fittings into place, then pull back lightly to lock them in.



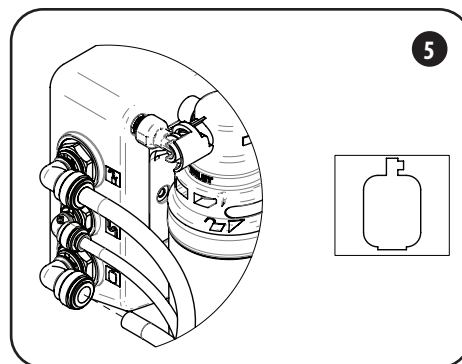
2. Connect 1/4-inch OD white plastic tubing from the feed water supply source to the system inlet on the manifold.



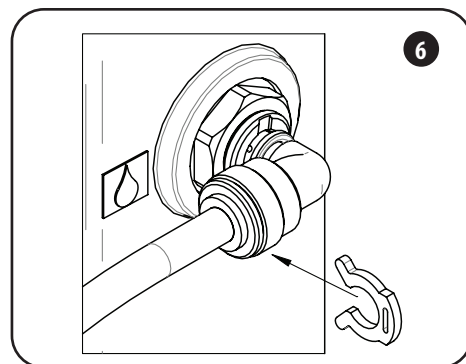
3. Connect 3/8-inch OD blue plastic tubing from the product water faucet to the manifold.



4. Connect the 1/4" OD red tubing from the air gap inlet of the faucet to the concentrate outlet on the RO manifold.



5. Connect the 3/8" OD white product water tube from the tank to the manifold.



6. Attach locking clips to each white elbow fitting. Do not attach one to the blue flow control. Clips should slide in behind collet on the fittings.

START-UP

1. Sanitize the storage tank (**see page 26 for sanitization procedure**).
2. Check system to verify all components are correctly installed
3. Open inlet valve and tank valve.
4. Check system thoroughly for leaks. If any are found, shut off both inlet and tank valves and correct the issue.
5. Allow system to run & fill tank for 1-2 hours. You will hear the water running to drain while the unit is running. Once the water stops running to drain the tank is full.
6. Open faucet to flush carbon fines & sanitization solution. Once the flow begins to slow down (around 20 minutes after opening) turn off the faucet.
7. Allow the tank to fill completely again.
8. Once full, open the faucet and allow the water to run for 24 hours to break-in the RO membrane and completely flush the system. This will allow your system to run at optimal efficiency.



WARNING!

Do not drink water produced by the system until the start-up procedure has been followed completely!

NOTE

This preservative must be flushed from the membrane before use. If ingested it may cause irritation of the gastrointestinal tract, colic, diarrhea, or other similar symptoms. The manufacturer recommends discarding the first two full tanks of water. If no objectionable tastes are noticed after second tank draining, the RO processed water is ready for use. Otherwise, drain tank and refill for a third time.

9. System is ready to use.

PERFORMANCE & TECHNICAL INFORMATION

The performance of the system can be characterized and judged by the quality and quantity of the water produced by the system. By measuring the contaminant removal performance and flow rates of the system, its operating status can be easily evaluated.

Factors Which Affect Performance

Performance of the reverse osmosis membrane is affected by several factors which must be considered when judging the condition of the system. The main factors which affect system performance are pressure, temperature, total dissolved solids level, recovery and pH.

Pressure

Water pressure affects both the quantity and quality of the water produced by the RO membrane. Generally, the more water pressure, the better the performance of the system. Be careful not to go below 40 psi or exceed 100 psi, the minimum and maximum operating pressure of the system.

Temperature

The reverse osmosis process slows with decreasing temperature. To compensate, a temperature correction factor is used to adjust the actual performance of the RO membrane filter to the standard temperature of 77°F (25°C). This allows the performance of the unit to be accurately gauged against published standards. Temperature does not affect the concentrate flow rate.

Total Dissolved Solids

The minimum driving force which is necessary to stop or reverse the natural osmosis process is termed osmotic pressure. As the total dissolved solids level of the feed water increases, the amount of osmotic pressure increases and acts as back pressure against the reverse osmosis process. Osmotic pressure becomes significant at TDS levels above 500 mg/L (ppm).

Hardness

Hardness is the most common membrane foulant. If ignored, this relatively harmless component of feed water will scale a membrane over time. Use of a softener will reduce the fouling effect on a membrane. One way to detect too much hardness in the feed water is the weight of a membrane installed for a period of time. A fouled membrane (dried) will weigh significantly more than a new membrane. The increase in weight is a result of precipitated hardness inside the membrane.

Iron

Iron is another common membrane foulant. There are a variety of types of iron, some of which cannot be removed by an iron filter. Clear water iron can be removed more effectively by a softener. Particulate iron can be removed more effectively by a 1 micron filter. Organic-bound iron can be removed only by activated carbon or macroporous anion resin. If there is enough iron to exceed the EPA secondary drinking water standard and softening the water is not an option and the iron is soluble, then an iron filter is appropriate. If none of these are an option then regular replacement of membranes will have to be accepted.

NOTE

Increased weight of the RO cartridge may be a foulant other than hardness.

Product Water Recovery

Product water recovery plays an important role in determining membrane and system performance. Recovery refers to the amount of water produced in relation to the amount of water sent to drain. The standard calculation is:

$$\% \text{ Recovery} = \text{Product Water} \div (\text{Product Water} + \text{Waste Water}) \times 100$$

The system uses a flow control assembly to restrict the flow of waste water to the drain. This restriction helps maintain pressure against the membrane. The sizing of the flow control assembly determines the recovery rating of the system. The system is manufactured with a recovery rating designed to be around 25%. Depending on temperature, pressure and tolerances the actual recovery value may be slightly different for each system.

Performance Measurements

When collecting water samples from the manifold, insert a short 2"-3" length of tubing into the fitting on the manifold to catch the water sample. TDS can be measured with an electronic TDS meter. PN 66760

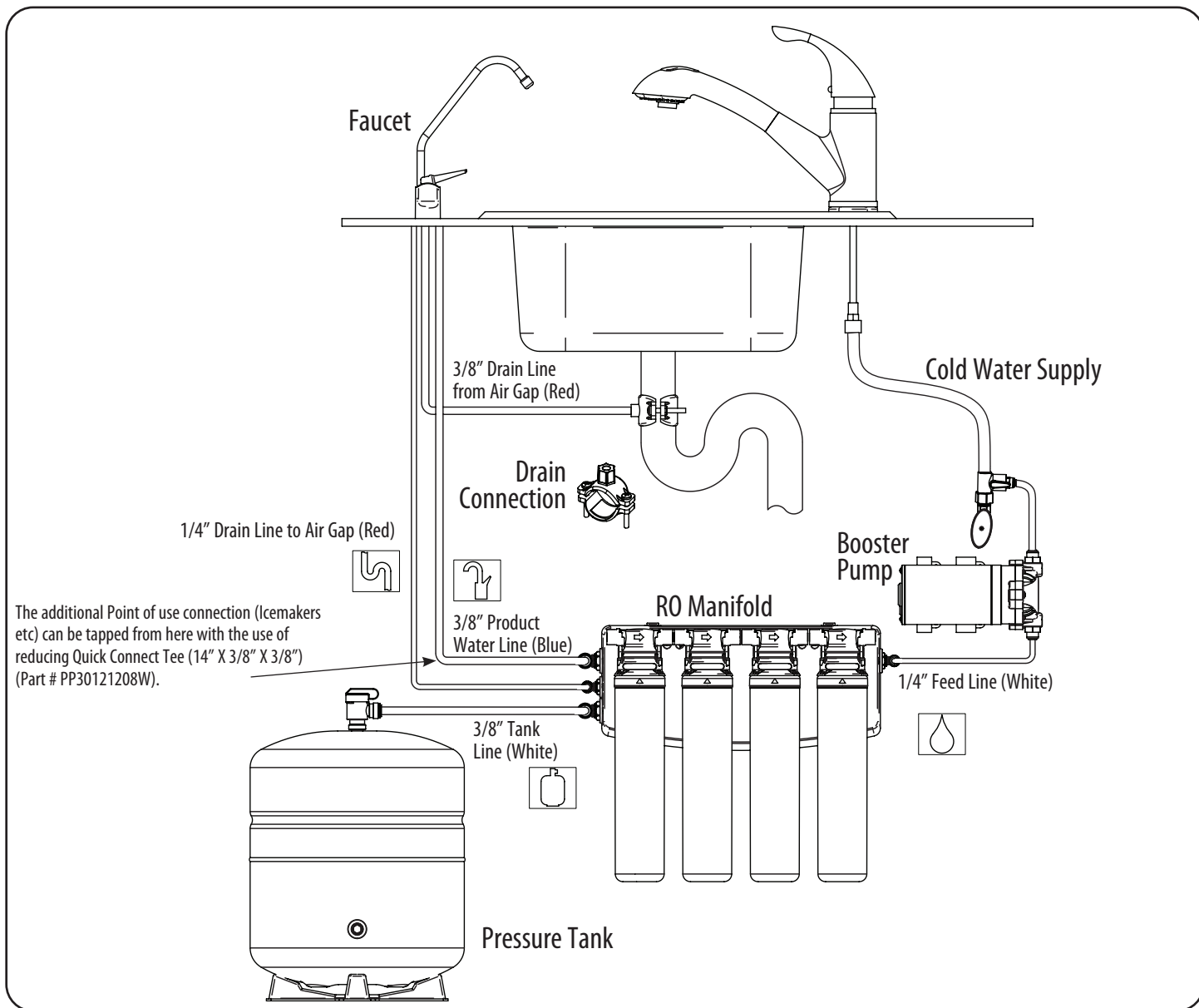
INSTALLING AN RO TO SERVICE OTHER WATER USING APPLIANCES

Pressure, Pressure, Pressure

If you are installing a service line from an RO storage tank to an appliance with a minimum pressure requirement then you may need to consider the following options so as not to operate below the operating limits of that appliance.

Installation of a booster pump (92317)

Placing this pump before the RO will increase overall pressure to the system. If you boost the water pressure from 40 to 80, then the full pressure in the storage tank will be around 53 psi. Increasing the overall pressure in the system will allow more volume to be drawn from the tank before the pressure dips below a shutoff value.



ADDITIONAL POINT OF USE CONNECTION (Fittings and tubing for additional point of use connection is not supplied with this system)

NOTE

Icemakers typically use 1/4" tubing as feed line.

NOTE

Reduce the 3/8" Line to 1/4" as close as possible to the additional point-of use device to minimize flow loss.

1. To connect an additional point of use (icemaker, extra faucet in wet bar and/or another use for treated water), place a "tee" connector (P/N PP30121208W) in 3/8" blue line between faucet and RO Module.
2. Connect "tee" to point-of-use with 1/4" tubing (P/N 92600). Connect tubing to point-of-use. If point of use connection requires 3/8" fitting, use of 3/8" Tee (Part # 92403) and 3/8" tubing (Part # PE-12-El-0500F-W)

SERVICE AND MAINTENANCE

Service Schedule

To keep the Aqua Flo system operating properly, it is necessary to change the filters and sanitize the system periodically. Typically, this should be done on an annual basis. Service frequency may vary depending on local water conditions. High sediment, chlorine, turbidity, or hardness levels may require more frequent service. Use the following as a guide.

As needed

Clean the faucet with a soft cloth, avoid abrasive cleaners.

At least once in 6 months

Replace

- **Stage 1** Sediment Filter (41407001)
- **Stage 2 & 4** Carbon Block Filter (41407002)

At least once in 12 months

Replace

- **Stage 3** Reverse Osmosis Membrane (41407003)
- Recommend changing every three years.

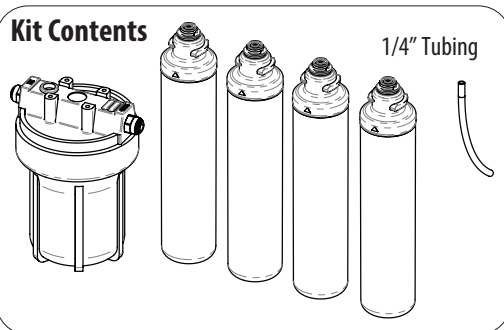
Check


- TDS of incoming and product water
- Tank Pressure

Rotate carbon block filters 3 months after changing (swap stage 2 & stage 4)

*Drinking Water System Sanitization Kit Preparation - 42903015

Place some rags or a towel below the system as some water may leak during this procedure. Have a pail handy to drain water into.

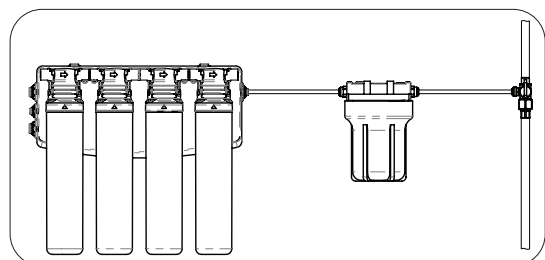
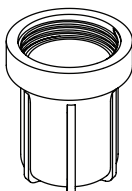



- 2** Disconnect all 4 cartridges and replace them with the blank cartridges included in this kit. Disconnect the inlet line from the system  and drain excess water into a pail.

NOTE

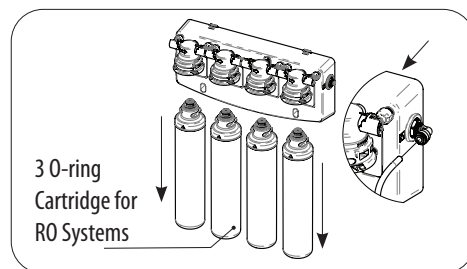
if sanitizing an RO be sure to insert the blank RO cartridge (3 o-rings) in stage 3.

- 3** Add either 1/2 teaspoon of household bleach or 1 packet of Sani-System Liquid Concentrate (#50036) to the clear sanitization cartridge and seal the cartridge tightly.

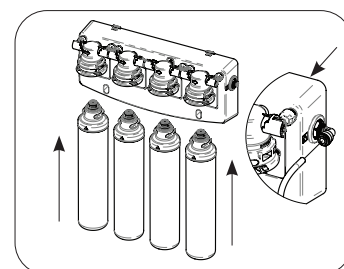


- 4** Using the tubing included in the kit, connect the sanitization cartridge between the adapter valve and the inlet  port on the system.

- 1** Shut off the water supply to the system at the adapter valve. Open the faucet and allow the system to drain completely. Shut off the faucet once drained.



- 5** Turn on the water at the adapter valve. If sanitizing an RO allow the system to fill the tank for 30 minutes. Next, turn on the faucet and allow the system to run for 30 minutes.
- 6** Leaving the faucet open, shut off inlet water and let the system drain completely.

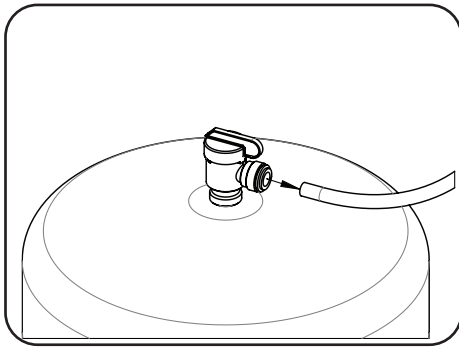


- 7** Disconnect the sanitization cartridge from the inlet line and system. Reconnect the inlet line to the system and replace cartridges on system.
- 8** Turn on the inlet water and check for leaks. If sanitizing an RO, allow the tank to fill for 30 minutes and discard the first tank. Allow tank to refill for 30 minutes.

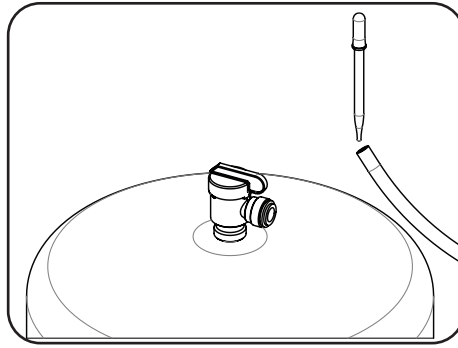
Your system is now clean and ready to use!

SERVICE AND MAINTENANCE (CONTINUED)

Metal Tank Sanitization Procedure

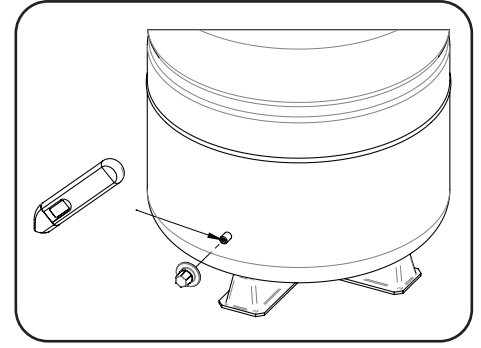


1. Turn off water supply to your RO system by turning off the adapter valve. Open the faucet to drain the storage tank.
2. Once the tank has emptied. Disconnect the tube from the ball valve on the storage tank.



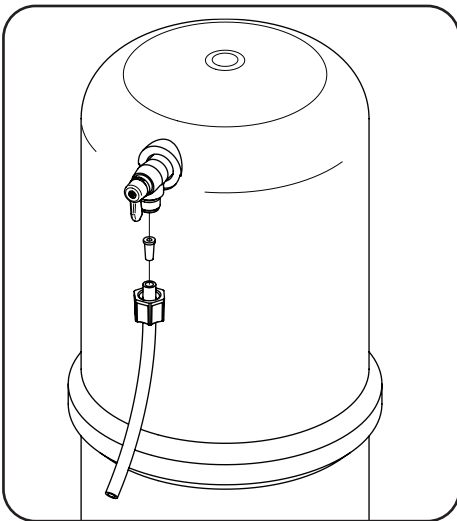
3. Using a clean eye dropper insert 1/2 teaspoon of hydrogen peroxide or common household bleach into the tube.
4. Reconnect the tube to the ball valve. Follow the start up procedure and drain the first two full tanks of water

Tank Pressure Check

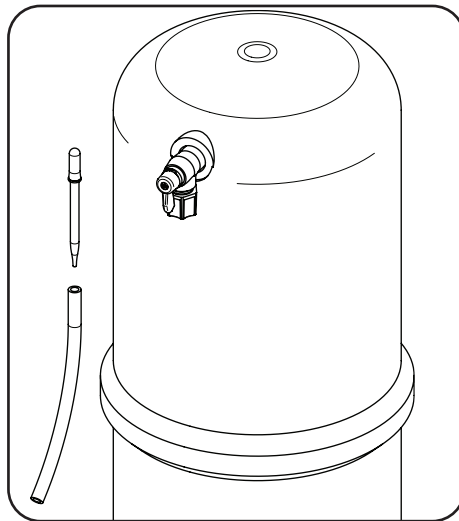


1. Turn off incoming water supply to RO.
2. Open RO Faucet and allow water to drain from the tank until it is completely empty.
3. Check that air pressure is between 5-7 psi using an air pressure gauge.
4. If the pressure is low use a bicycle pump to increase pressure to 5-7 psi.
5. Follow startup procedure.

Plastic Tank Sanitization Procedure

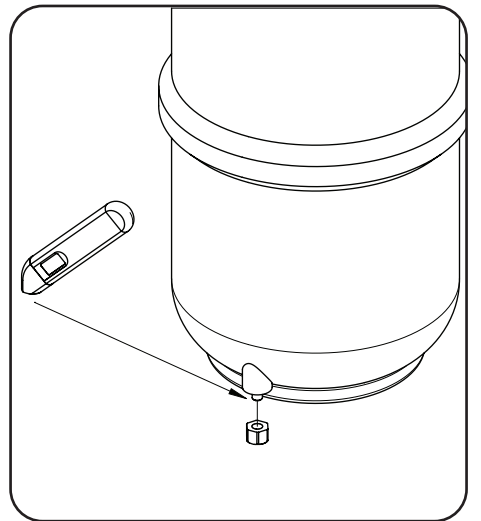


1. Turn off water supply to your RO system by turning off the adapter valve. Open the faucet to drain the storage tank.
2. Once the tank has emptied. Disconnect the tube from the ball valve on the storage tank.



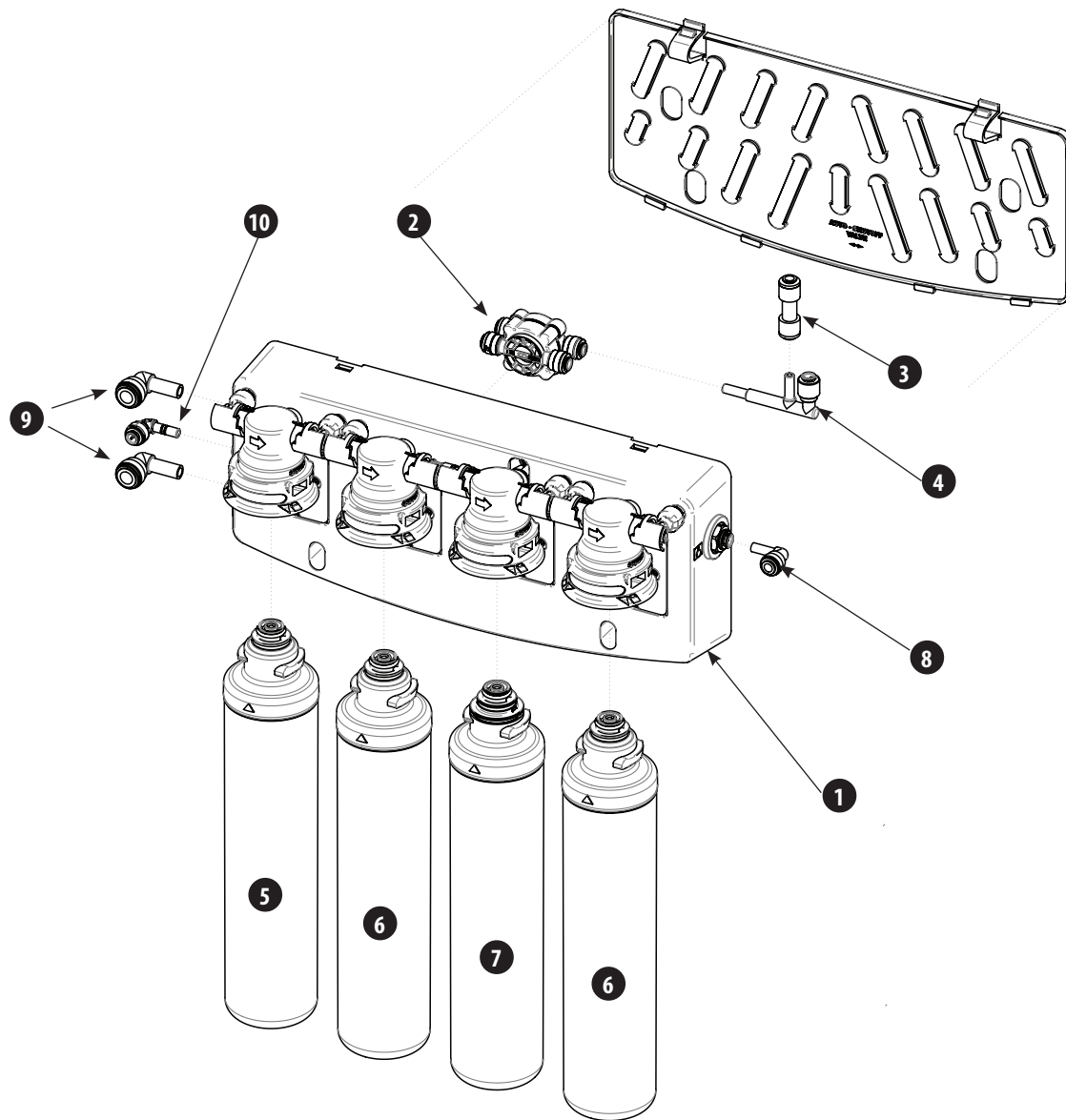
3. Using a clean eye dropper insert 1/2 teaspoon of hydrogen peroxide or common household bleach into the tube.
4. Reconnect the tube to the ball valve. Follow the start up procedure and drain the first two full tanks of water

Tank Pressure Check



1. Turn off incoming water supply to RO.
2. Open RO Faucet and allow water to drain from the tank until it is completely empty.
3. Check that air pressure is between 5-7 psi using an air pressure gauge.
4. If the pressure is low use a bicycle pump to increase pressure to 5-7 psi.
5. Follow startup procedure.

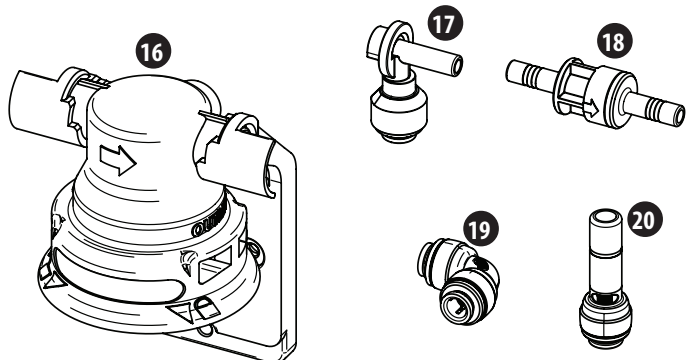
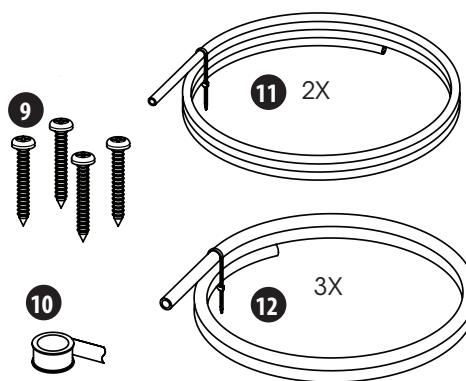
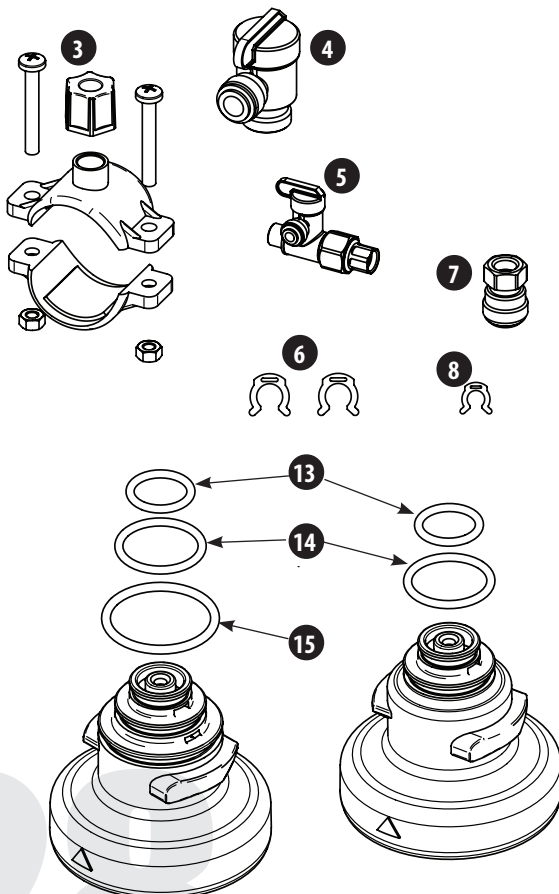
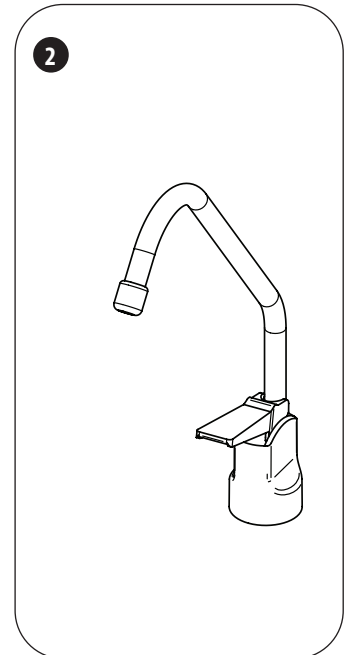
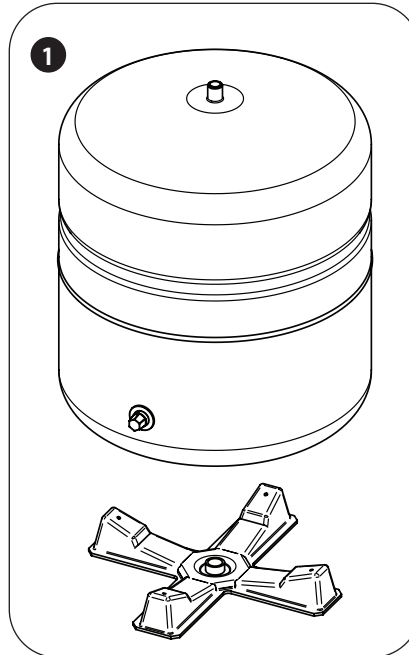
PARTS BREAKDOWN



#	Item #	Description	Qty.
1	134040R	Manifold, Quick Change RO, 4 Stage	1
2	92223	Valve, Auto Shut-off	1
3	41407553	Fitting, Check Valve, QCRO	1
4	41407552	Fitting, T-Connector, QCRO	1
5	41407001	Cartridge, Quick Change Sediment Filter - Stage 1	1
6	41407002	Cartridge, Quick Change Carbon Block - Stage 2 & 4	2
7	41407003	Cartridge, Quick Change 50GPD TFC Membrane - Stage 3	1
8	33501064	Elbow, 1/4" Stem	1
9	33501071	Elbow, 3/8" Stem	2
10	92800	Fitting, Drain Flow Control	1

OTHER PARTS

1. Storage Tank – Part # 92371
2. Faucet & Hardware – Part # 92192
3. Drain Saddle – Part # 92160
4. Tank Shut-off Valve – Part # PPSV501222W
5. T Adapter Part # 60010643
6. 2x Locking Clip (3/8") – Part # 92346
7. Faucet Adapter – Part # 92652
8. Locking Clip (1/4") – Part # 92345
9. 4x #10 Phillips Self Tapping Screws
10. Teflon Tape
11. 1/4" Tubing
(4ft White – Part # PE-08-BI-0500F-N;
4ft Red – Part # PE-08-BI-0500F-R)
12. 3/8" Tubing
(4ft White – Part # PE-12-EI-0500F-W;
4ft Red – Part # PE-12-EI-0500F-R;
4ft Blue – Part # PE-12-EI-0500F-W)
13. O-ring, Small – Part # 41407554
14. O-ring, Medium – Part # 41407555
15. O-ring, Large – Part # 41407556
16. Replacement Filter Head – Part # 92804
17. Compact Elbow – Part # 41407558
18. Front Check Valve – Part # 41407557
19. 1/4" Elbow – Part # PP0308W
20. 3/8" X 1/4" Stem Adapter –
Part # PP061208W



TROUBLESHOOTING GUIDE

If a problem cannot be corrected through the use of this troubleshooting guide please have the following information ready prior to calling the 1-800 number on the back of this manual:

- **Serial #**
- **Model #**

Problem	Possible Cause	Remedy
1. Insufficient quantity of product water available to service.	a. Service greater than unit's specified output.	a. Use optional large tank for more storage capacity.
	b. Insufficient feed water flow.	b. 1. Clogged shut-off valve or feed tubing; clean out or replace. 2. Clogged prefilter; replace. 3. Clogged manifold; clean or replace.
	c. Insufficient feed water pressure	c. 1. Same as (b) above. 2. Change in line pressure; install booster pump.
	d. Increase in feed water TDS.	d. 1. Same as (a) above. 2. Install booster pump.
	e. Reduced feed water temperature.	e. Same as above.
	f. Plugged prefilter.	f. Replace filter element.
	g. Plugged polishing filter.	g. Replace polishing filter.
	h. RO membrane fouled with sediment.	h. Replace RO membrane and prefilter elements.
	i. Shutoff malfunction.	i. Clean or replace shutoff.
2. Poor product water quality.	a. All of (1) above except (a) and (e).	a. All of (1) above except (a), (e), and (g).
	b. RO membrane filter worn out.	b. Replace RO membrane.
	d. Shutoff malfunction.	d. Replace shutoff.
3. Bad tasting product water.	a. Decrease in product quality; see (2) above.	a. Same as (2) above.
	b. Foreign matter in storage tank.	b. Clean, sanitize, and flush storage tank.
	c. Polishing filter exhausted.	c. Replace polishing filter
	d. Plugged capillary tube.	d. Replace capillary tube; replace prefilter, if necessary.
	e. Storage tank bladder is ruptured.	e. Replace storage tank and check precharge pressure.

TROUBLESHOOTING GUIDE (CONTINUED)

Problem	Possible Cause	Remedy
4. External leakage.	a. Tubing not fully seated in fitting	a. Check all fittings for tightness.
	b. Tubing abraded in seal area.	b. Recut tubing and redo connection.
5. Overflow at faucet air gap (gurgling sounds).	a. Concentrate tubing plugged.	a. Clean concentrate tubing of debris.
	b. Air gap plugged.	b. Clean with vinegar and/or soap.
	c. Concentrate tubing not in continuous downward slope.	c. Eliminate loops or low spots in tubing.
	d. Obstructed home drain pipe.	d. Free obstruction.
6. Foaming at faucet tip.	a. Storage tank is positioned on side (Dissolved air cannot escape.)	a. Place tank in vertical position.
7. Foaming at air-gap	a. Concentrate tubing connected to same drain line as dishwasher, etc.	a. Find different drain for system.
	b. When sink is full of soapy water and plug is pulled, can back up at air-gap.	b. Obstructed home drain, free obstruction.
	c. Obstructed home drain.	c. Free obstruction.
8. Bad smell from product water.	a. Polishing filter exhausted.	a. Replace polishing filter.
	b. Prefilter element.	b. Replace filter element.
	c. Unit needs disinfection.	c. Sanitize unit.
9. Fast flow to drain.	a. Defective flow control assembly.	a. Replace flow control assembly.
10. Black specks in product water.	a. Carbon fines.	a. Flush polishing filter.
11. Low faucet pressure.	a. Inadequate pre-charge pressure in storage tank.	a. Determine the minimum pressure using the 70% guideline.
	b. Polishing filter plugged.	b. Replace polishing filter.
12. Flow control plugging.	a. Excessive turbidity.	a. Install another 5 micron filter in series with existing one or substitute carbon block filter for granular activated carbon filter.
	b. Iron fouled.	b. Pretreat for iron removal.
	c. Iron-bacteria fouled.	c. Sanitize plumbing.



Aqua Flo® Reverse Osmosis Limited 2 Year Warranty

Subject to the conditions and limitations described below, Canature WaterGroup™ warrants its AquaFlo® Reverse Osmosis Drinking Water Treatment Systems (excluding membrane and cartridge filters), when installed in accordance with Canature WaterGroup™ specifications, to be free from defects in materials and workmanship under normal use within the operating specifications for a period of two (2) years from the date of purchase (with bill of sale). This warranty shall apply to the original enduser of the system only.

Other than the membrane and cartridge filters, any part found defective within the terms of this warranty will be repaired or replaced by Canature WaterGroup™. If any part is found defective, Canature WaterGroup™ also reserves the right to replace the drinking water appliance with a comparable Canature WaterGroup™ drinking water system of equal or greater quality. You pay only freight for repaired or replaced parts from our factory.

This warranty shall not apply to any part damaged by accident, fire, flood, freezing, Act of God, bacterial attack, membrane fouling and/or scaling, sediment, misuse, misapplication, neglect, alteration, installation, or operation contrary to our printed instructions, or by the use of accessories or components which do not meet Canature WaterGroup™ specifications. If the drinking water system is altered by anyone other than Canature WaterGroup™ the warranty shall be void.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE PERIOD SPECIFIED ABOVE FOR THE PARTS DESCRIBED IN THIS LIMITED WARRANTY.

As a manufacturer, we do not know the characteristics of your water supply. The quality of water supplies may vary seasonably or over a period of time. Your water usage may vary as well. Water characteristics can also change if the drinking water appliance is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligation for us. Further, we assume no liability and extend no warranties, express or implied, for the use of this product with a non-potable water source or a water source which does not meet the conditions for use as described in the Owners Guide.

CANATURE WATERGROUP'S™ OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT OF THE FAILED PARTS OF THE DRINKING WATER SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL OR OTHER DAMAGES.

TOLL FREE: 1-877-288-9888

www.canaturewg.com