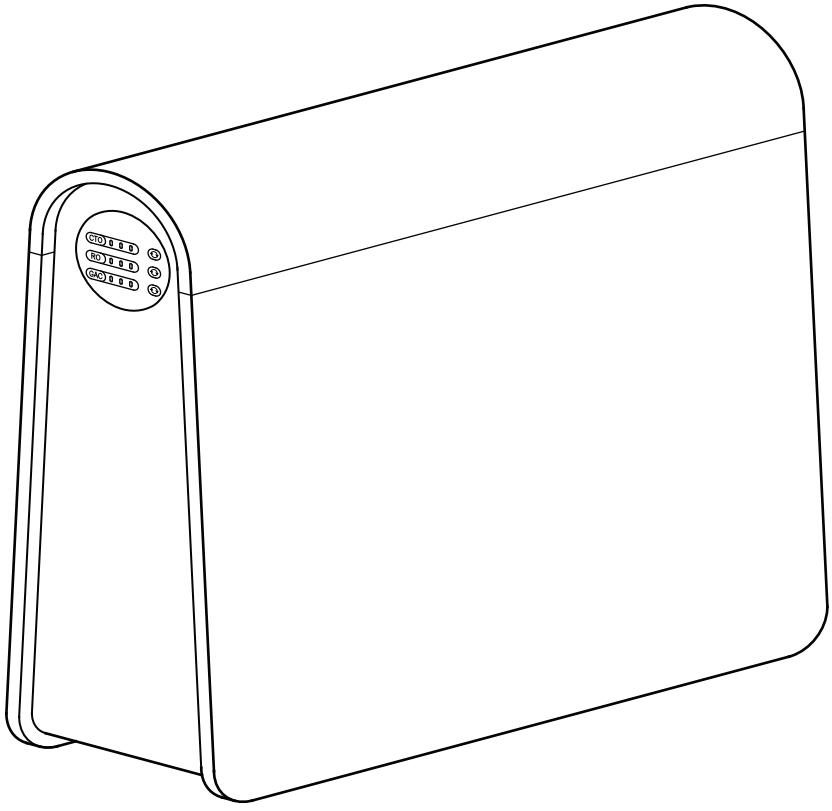
ECOWATER®
SYSTEMS
Your Water. Perfected.

eflow™

TANKLESS
REVERSE OSMOSIS
DRINKING WATER SYSTEM

ETRO-485

- Safety Guides
  - Installation
    - Operation
      - Maintenance
        - Repair Parts



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System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of claims specified on the performance data sheet at www.nsf.org and certified to NSF/ANSI/CAN 372 and CSA B483.1.

NSF®

7396410 (Rev. B 11/1/23)

TABLE OF CONTENTS

SAFETY GUIDES

◆ Read all steps, guides and rules carefully before installing and using the Drinking Water System. Follow all steps exactly to correctly install.

◆ BE SURE TO FOLLOW APPLICABLE STATE AND LOCAL PLUMBING AND SANITATION CODES when installing the Drinking Water System. Massachusetts plumbing code 248 CMR shall be adhered to. Please consult your licensed plumber. Using a qualified installer is recommended.

◆ The Drinking Water System works on water pressures of 40 psi minimum, to 100 psi maximum (see the table on page 3). If house water pressure is over the maximum, install a pressure reducing valve in the water supply line to the Drinking Water System.

◆ DO NOT install the Drinking Water System outside, or in extreme hot or cold temperatures. Temperature of the water supply to the Drinking Water System must be between 40°F (minimum) and 100°F (maximum), see the table on page 3. DO NOT INSTALL ON HOT WATER.

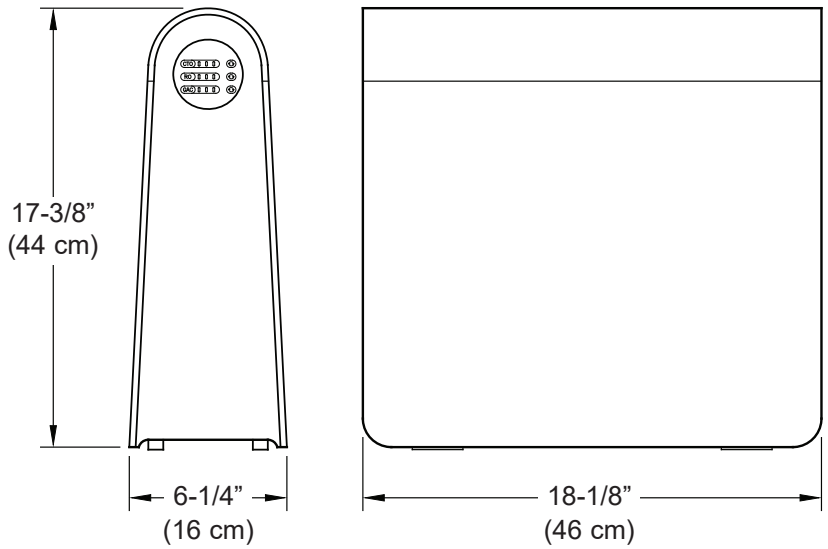
◆ Read the other limits (pH, water hardness, etc.), page 3, and be sure the water supply conforms.

◆ Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

◆ This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

◆ New hose-sets supplied with the appliance are to be used. Old hose-sets should not be reused.

DIMENSIONS



SPECIFICATIONS

Specifications	
Feed water pressure limits	40 - 100 psi (276 - 689 kPa)
Feed water temperature limits, minimum / maximum	40 - 100 °F (4 - 38 °C)
Service Flow Rate	0.42 gal./min. (1.6 L/min.)
Service Life	2,000 gal. (7,570 L)
Maximum total dissolved solids (TDS)	2,000 ppm
Maximum water hardness @ 6.9 pH	10 gpg (171 ppm)
Maximum iron, manganese, hydrogen sulfide	0
Chlorine in water supply	allowable ◆
Feed water pH limits	pH 4 - 10
Percent Rejection of TDS, minimum (new membrane) ■ ●	95.75 %
Daily water production rate ■ ●	600 gal./day (2,271 L/day)
Percent Recovery ■ ◘	62 %
Automatic shutoff control	yes

◆ Chlorine reduction (max. of 2.0 ppm) by the RO Prefilter. REGULAR MAINTENANCE REQUIRED. Chlorine will destroy the RO membrane. See page 4.

■ Based on manufacturer's laboratory testing.

● Feed water supply at 50 psi (345 kPa), 77 °F (25 °C), and 750 TDS - Quality water production and percent rejection all vary with changes in pressure, temperature and total dissolved solids.

◘ 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.

PERFORMANCE DATA

Performance Claim for ETRO-485					
Substance	**NSF Required Influent Challenge Concentration**	**NSF Minimum Reduction / Allowable Level**	**Average Influent**	**Average / Maximum Effluent**	**Average / Minimum Percent Reduction**
Chlorine Taste & Odor	2.0 ±10% mg/L①	1 mg/L①	2.0 mg/L①	0.05 / 0.05 mg/L①	97.5% / 97.5%

① Milligrams per liter, which is equivalent to parts per million (PPM).

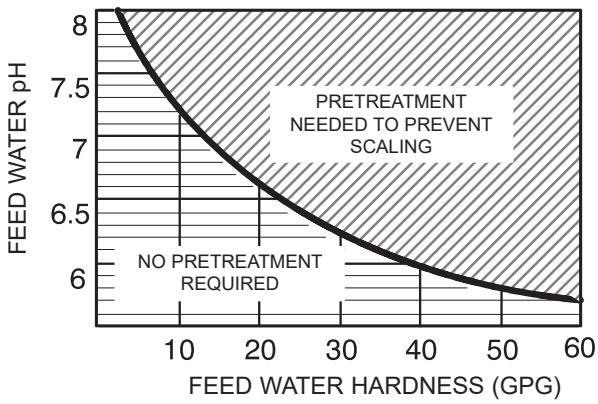
PRETREATMENT OF THE WATER SUPPLY NEEDED TO PREVENT SCALING

TO USE THE CHART...

...Locate the intersecting point of feed **water hardness** and **pH**.

If this point falls within the shaded area, pretreatment* is needed.

*Softening of the water is the suggested pretreatment.



WHAT THE DRINKING WATER SYSTEM WILL DO

The drinking water system is a REVERSE OSMOSIS (RO) water treating unit. Reverse osmosis is a way of reducing dissolved solids and organic matter from water by passing it through a special membrane. The membrane separates minerals and impurities from the water, and they are flushed to the drain. Good tasting, high quality product water goes directly to the drinking water faucet.

Pre and postfilters are replaceable cartridges. The carbon prefilter reduces some chlorine (see specifications) while also filtering sediments. The postfilter reduces any other undesirable tastes and odors before you use the water.

The RO system also includes a standard faucet assembly to vend the drinking water.

An internal booster pump maintains water pressure against the RO membrane to quickly produce drinking water when the faucet is opened, even if inlet pressure is low. No storage tank is required for product water.

The drinking water system fits under the kitchen or bathroom sink. However, you can install it where most convenient. You do need a COLD water supply pipe and drain point within a few feet (6' tubing lengths included). You can buy longer lengths of tubing if needed to reach more distant points. Be sure tubing is acceptable for use on potable water supplies.

COMPONENTS OF THE SYSTEM

The RO system is shipped in one carton, consisting of:

(1) RO assembly.

(2) Filter cartridges

(3) Power supply.

(4) Color coded tubing.

INSTALLER PROVIDES:

(1) Fitting to tap the cold water pipe for a feed water source to the RO. Must adapt to 3/8" OD tubing.

(2) Faucet for dispensing RO product water. Faucets available from EcoWater are shown on page 14.

(3) Air gap, 1-1/2" (4 cm) minimum, for RO discharge water. Must adapt to 1/4" OD tubing and be capable of handling flow of 0.4 gallons per minute.

(4) A drain point for RO discharge water.

These items must comply with state and /or local codes. Optional water supply and drain fittings are available from EcoWater for use in areas where codes permit. Refer to page 14.

THINGS TO CHECK BEFORE YOU START TO INSTALL:

★ **FEED WATER -** The water supply to the Drinking Water System must have the qualities listed in the specifications. If not, it will not make product water as it should and life of the RO membrane is shortened. City water most often will have these qualities. Well water may need conditioning. Have the water tested by a water analysis laboratory, and get their recommendations for treatment. Check and comply with local plumbing codes when providing a water supply to the RO.

NOTE: Codes in the state of Massachusetts require installation by a licensed plumber, and do not permit the use of the drain clamp. For installation, use plumbing code 248-CMR of the Commonwealth of Massachusetts.

CAUTIONS:

Feed water must have chlorine reduced (prefilters reduce up to amount shown in specifications, page 3). Chlorine will destroy the RO membrane cartridge. Be sure to service the prefilters, page 11.

★ **DRAIN POINT -** A suitable drain point (check your local plumbing codes) is needed for reject water from the RO membrane cartridge. Running the RO drain tubing directly to a floor drain, laundry tub, sump, standpipe, etc., is preferred. If that is not possible or practical, using the sink p-trap drain pipe is suggested. A drain clamp (drilling required), or a special drain adapter are available from EcoWater to use where codes permit. Refer to page 14. These options install on the sink drain pipe tailpiece, above the p-trap.

★ **RO FAUCET -** The RO product water faucet installs on the sink, or on the countertop next to the sink. Often, it's installed in an existing sink spray attachment hole. Space is required underneath for tubing to and from the faucet, and for securing it in place. Refer to pages 6 and 8.

INSTALLATION

FEED WATER SUPPLY

Check and comply with local plumbing codes as you plan, then install a cold feed (supply) water fitting. The fitting must provide a leak tight connection to the RO 3/8" OD tubing. See Figure 5, page 8. A typical installation, using standard plumbing fittings is shown in Figure 1. A saddle valve (not available from EcoWater) may be used where codes permit.

NOTE: Codes in the state of Massachusetts require installation by a licensed plumber, and do not permit the use of the drain clamp. For installation, use plumbing code 248-CMR of the Commonwealth of Massachusetts.

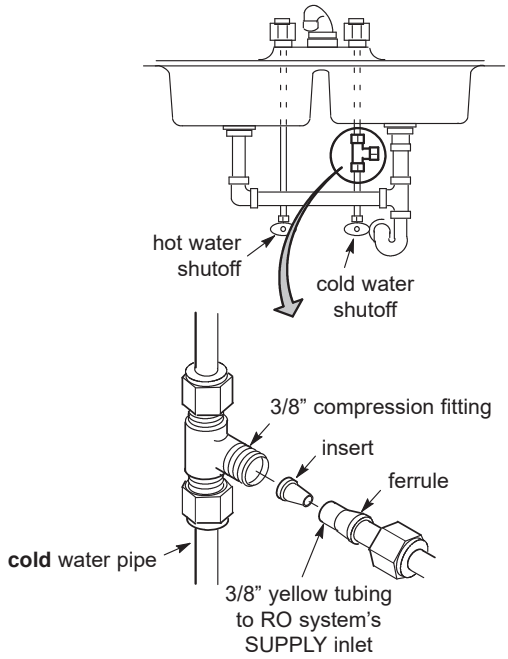
PIPE FITTINGS (compression shown)

IMPORTANT: Before starting, close the hot and cold water shutoff valves (See Figure 1). Use a pan to catch water when disassembling the pipe.

Complying with plumbing codes, install a fitting on the kitchen cold water pipe to adapt 3/8" OD tubing. A typical connection is shown in Figure 1. You can use solder or threaded fittings. If threaded fittings are used, be sure to use pipe joint compound or Teflon tape on outside threads.

Do not connect the tubing to the fitting until Step 2, top of page 8.

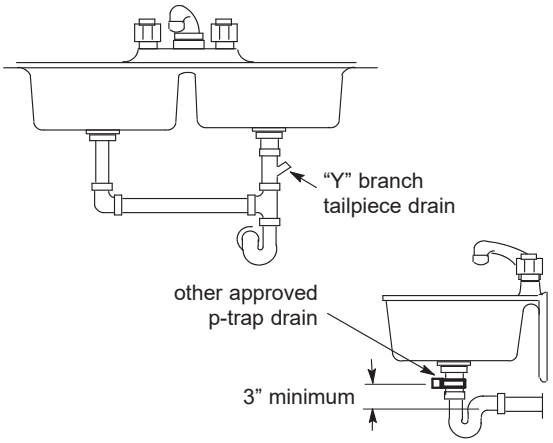
FIGURE 1 **WATER SUPPLY TYPICAL CONNECTION (using compression fitting)**



REJECT WATER DRAIN

Running the RO drain tubing directly to a floor drain, laundry tub, sump, standpipe, etc., is preferred (open drain options are shown in Figure 2B). If that is not possible or practical, check and comply with local plumbing codes as you plan, then install a drain fitting for RO reject water. This fitting is usually installed at the sink p-trap (always above).

FIGURE 2A **DRAIN TYPICAL CONNECTION (check local codes)**



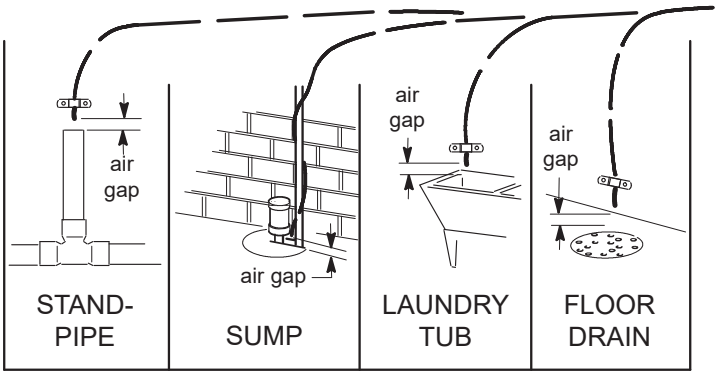
"Y" BRANCH TAIL PIECE, OR OTHER APPROVED P-TRAP DRAIN

Figure 2A shows typical p-trap and "Y" branch tail piece type drains.

OPEN DRAIN OPTIONS

You can run the drain tubing directly to one of several suitable open drain points, as shown in Figure 2B. Check your local codes. Always be sure to provide an air gap, 1-1/2" (4 cm) minimum, between the end of the hose and the drain point.

FIGURE 2B **OPTIONAL DRAIN POINTS FOR REJECT WATER**



INSTALL THE FAUCET

NOTE: Faucet and 3/8” quick connect tubing connector are not included with the system. See page 14.

HOW TO INSTALL THE FAUCET

Select one of the following places to install the faucet. Be sure there's room underneath so you can make the needed connections.

- In an existing sink spray attachment hole.
- Drill a hole in the sink top.
- Drill a hole in the countertop, next to the sink.

NOTE: Looking at Figure 3, be sure the faucet base will fit flat against the surface at the selected location so the o-ring will seal.

1. Locate and organize your RO faucet install parts. Refer to Figure 3.

2. Slide the chrome washer onto the faucet stud. See Figure 3.

3. Move the RO system into position, under the sink.

NOTE: See tubing connection procedures on page 8. For ease of service and maintenance, keep tubing lengths long enough so removal of the RO system from under the sink is possible.

4. Insert the faucet stud down into the mounting hole.

5. On the underside of the sink or countertop, install the plastic bushing, flat washer, and hex nut. Slide the large steel washer in place, between the bushing and the bottom of the sink or countertop. Then, tighten the hex nut securely.

6. Thread the tubing connector onto the bottom of the faucet stud.

7. Push the end of the 3/8" blue tubing from the RO, into the tubing connector installed in the previous step.

NOTE: Do not connect drain tubing to the RO faucet’s air gap. The drain flow rate from this system is too high for it. You will need to provide a separate air gap, as shown on page 8.

FIGURE 3 - FAUCET INSTALLATION

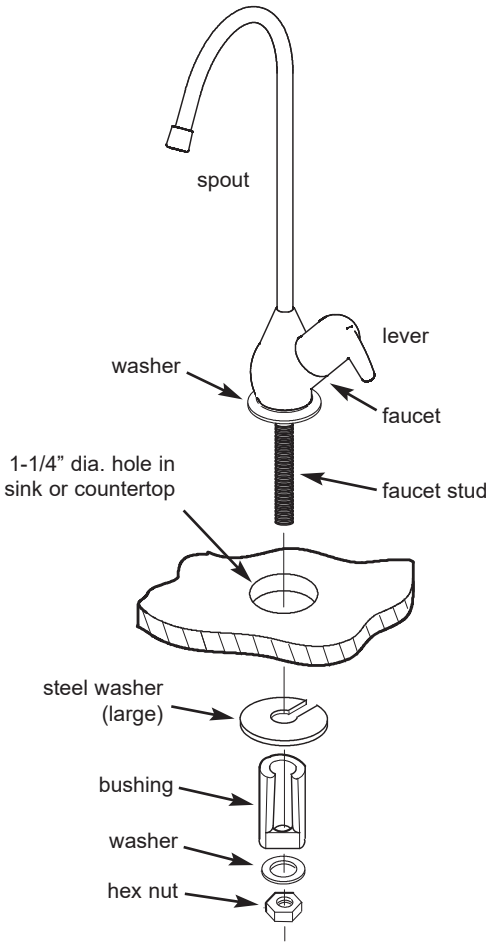
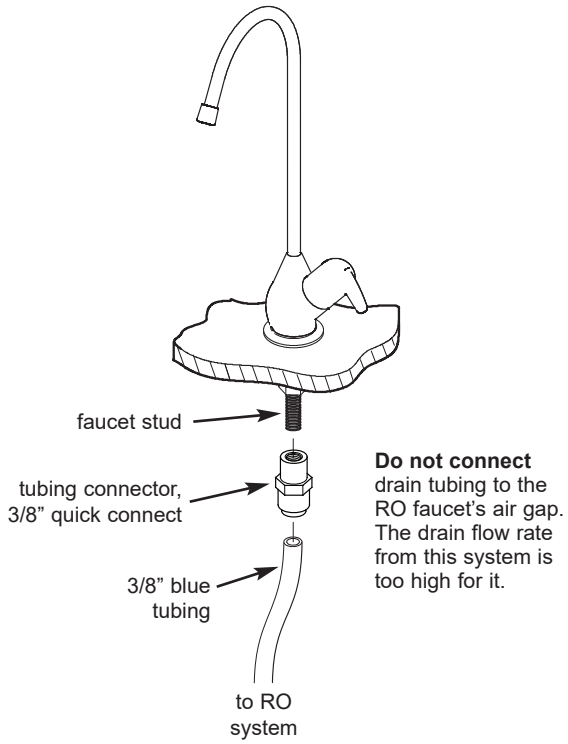


FIGURE 4 - TUBING CONNECTION



TUBING CONNECTIONS

HOW TO CUT AND CONNECT THE TUBES

Your Reverse Osmosis Water System includes push-in fittings for quick tubing connection. Review the following instructions before connecting the tubes in the next step.

Cut tubes to length

1. Use a sharp cutter or knife to cut the end of tubing. Always cut the tubing square.

2. Inspect the end (about 1") of the tubing to be sure there are no nicks, scratches or other rough spots. If needed, cut the tubing again.

NOTE: For ease of service and maintenance, keep tubing lengths long enough so removal of the RO system from under the sink is possible.

Connect tubes

NOTE: Remove protective shipping plugs before connecting tubes. Discard shipping plugs.

1. Push tubing through collet, until it engages the o-ring. Continue pushing until the tube bottoms out against the back of the fitting. A common mistake is to stop pushing when the tube engages the o-ring. This will lead to future leaks. When a 1/4" tube is fully engaged, 11/16" of the tube has entered the fitting. When a 3/8" tube is fully engaged, 3/4" of the tube has entered the fitting.

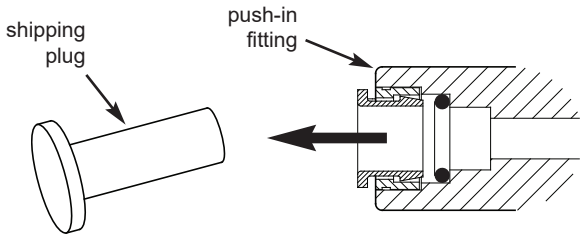
2. If using tubing other than tubing supplied with the system, be sure it is of high quality, exact size and roundness with a smooth surface.

To Disconnect Tubes

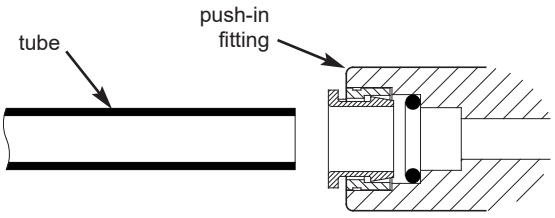
1. Push the collet inward with a finger tip.

2. Continue holding collet inward while pulling the tubing out.

Remove and Discard Shipping Plugs

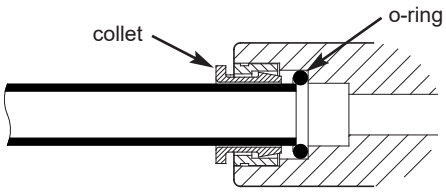


Tube Correctly Cut

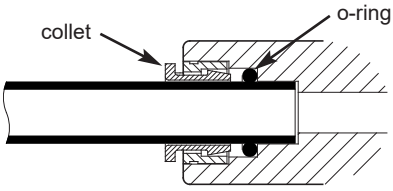


Cut tubing square with end of tubing round, smooth, with no cuts, nicks or flat spots.

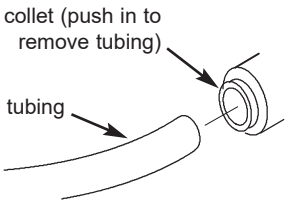
Tube Partially Engaged With Fitting



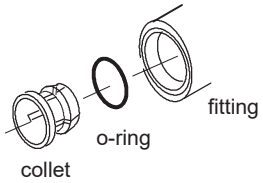
Tube Fully Engaged With Fitting



Disconnect Tubing



Collet and O-ring



TUBING CONNECTIONS: WATER SUPPLY, PRODUCT WATER FAUCET AND DRAIN

1. Move the RO system into position, under the sink.

NOTE: See tubing connection procedures on the previous page. For ease of service and maintenance, keep tubing lengths long enough so removal of the RO system from under the sink is possible.

2. Connect water supply tubing: Connect one end of the 3/8" **yellow** tubing to the feed water supply fitting, installed on page 5, and tighten the nut securely (Figures 1 and 5). Cut yellow tubing to length and insert the other end all the way into the RO system's SUPPLY inlet quick connect fitting (Figure 5).

3. Connect product water faucet tubing: Locate the 3/8" **blue** tubing that you connected to the faucet on page 6. Cut blue tubing to length and insert the other end all the way into the RO system's PRODUCT outlet quick connect fitting (Figure 5).

4. Connect drain tubing: Locate the 1/4" **red** tubing, cut one end square, and insert all the way into the RO system's DRAIN outlet quick connect fitting (Figure 5).

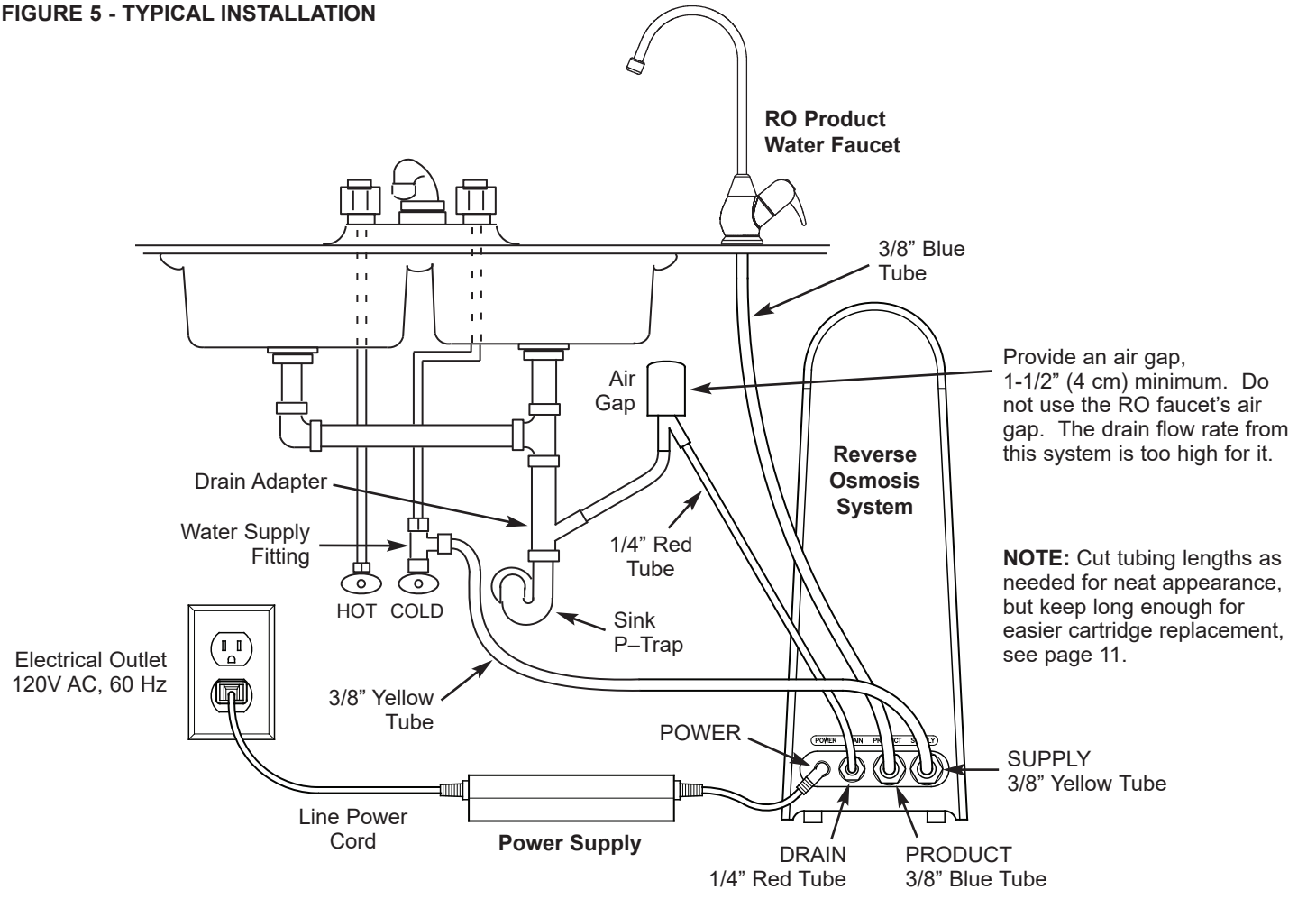
NOTE: Do not connect drain tubing to the RO faucet's air gap. The drain flow rate from this system is too high for it.

5. Provide an air gap:

If using a p-trap drain, route the other end of the 1/4" red tubing to the inlet of an air gap (not included). Cut red tubing to length and connect, as shown in Figure 5. Connect the outlet of the air gap to the drain fitting installed on page 5. Keep this tubing run as straight as possible, without loops, kinks or low spots.

Or, if using a floor drain or other approved drain point: Route the 1/4" red tubing from the RO to the floor drain, sump, etc. Be sure to provide an air gap, 1-1/2" (4 cm) minimum, and secure the end of the tube in place.

FIGURE 5 - TYPICAL INSTALLATION



INSTALL FILTER CARTRIDGES

1. Open the magnetic side cover to get access to the interior of the RO system cabinet.

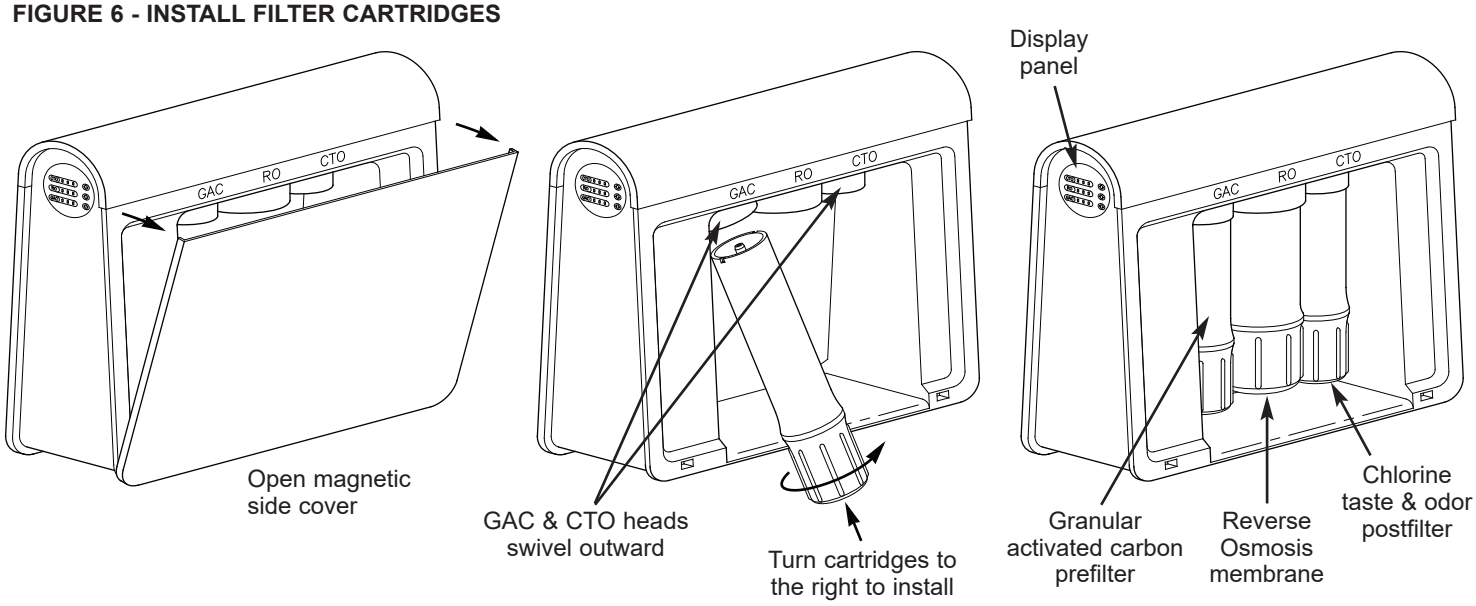
2. Remove the three filter cartridges from their packaging and install them in the order shown in Figure 6.

NOTE: Installing the middle RO membrane cartridge first provides more space to hold and turn it.

NOTE: The heads for the outermost (GAC and CTO) cartridges swivel out for easier access.

NOTE: Figure 6 shows one side of the cabinet open, but either side can open. When installing cartridges, observe the "GAC" and "CTO" markings on the cabinet, and do not install these two cartridges in the wrong place.

FIGURE 6 - INSTALL FILTER CARTRIDGES



CONNECT ELECTRICAL POWER

1. Insert the power supply's low voltage connector into the POWER receptacle on the RO system cabinet (see Figure 5).

2. Insert the line power cord's plug into a 120V AC, 60 Hz. household electrical outlet that is continuosly live (not switched).

TURN ON WATER SUPPLY

1. Open the cold water supply shutoff valve to the sink.

2. Open the sink faucet to purge air from the plumbing. Close faucet when water runs smooth.

3. Carefully check all fittings and connections for water leaks. Correct leaks if any are found.

FLUSH THE SYSTEM

To flush the system, complete the following steps.

1. Open the RO faucet and let water flow through the system. After 1 hour of continuous flow, the system will go into a fail-safe mode and shut off the booster pump. You will hear beeping and see lights flashing on the display panel (See Figure 8 on the following page).

2. Clear the system's fail-safe mode by pressing the reset buttons in the following sequence: CTO, RO, GAC, or top to bottom on the display panel (See Figure 8).

3. Allow another hour of continuous flow, for a total flush time of 2 hours. Repeat Step 2 and close the RO faucet. Your Reverse Osmosis system is ready for use.

HOW THE RO SYSTEM WORKS

PREFILTER

Water from the cold supply pipe enters the RO assembly sediment prefilter first. The replaceable sediment cartridge reduces chlorine, sand, silt, dirt, other sediments to clean the feed water before entering the RO cartridge and postfilter.

REVERSE OSMOSIS (RO) CARTRIDGE

The RO cartridge includes a tightly wound, special membrane. Water is forced through the cartridge and the membrane reduces the dissolved solids and organic matter. High quality product water exits the RO cartridge and goes to the postfilter and RO faucet. Reject water, with the dissolved solids and organic matter, is routed to the drain.

POSTFILTER

After leaving the RO cartridge, but before going to the RO faucet, product water goes through the postfilter. The postfilter is an activated carbon type filter. Any remaining tastes, odors and sediments are reduced from the product water. Clean, high quality drinking water is available for use.

FAUCET

The sink or countertop faucet vends the drinking water when opened. It is opened and closed by turning the knob.

BOOSTER PUMP

The system's internal booster pump maintains water pressure against the RO membrane to quickly produce drinking water when the faucet is opened, even if inlet pressure is low.

DISPLAY PANEL

The display panel shows the remaining life of each of the three filter cartridges. When a filter cartridge is replaced, and the reset button is pressed and held for 5 seconds, all three LED bars will be brightly lighted. As time passes, the bars dim and go off, one by one, until it is time to replace the cartridge. Then, the last bar will flash and a beeper will sound. Also on this display panel are two red warning lights, one to indicate that a leak has been detected, and the other to indicate no water supply.

FIGURE 7 - SYSTEM DIAGRAM

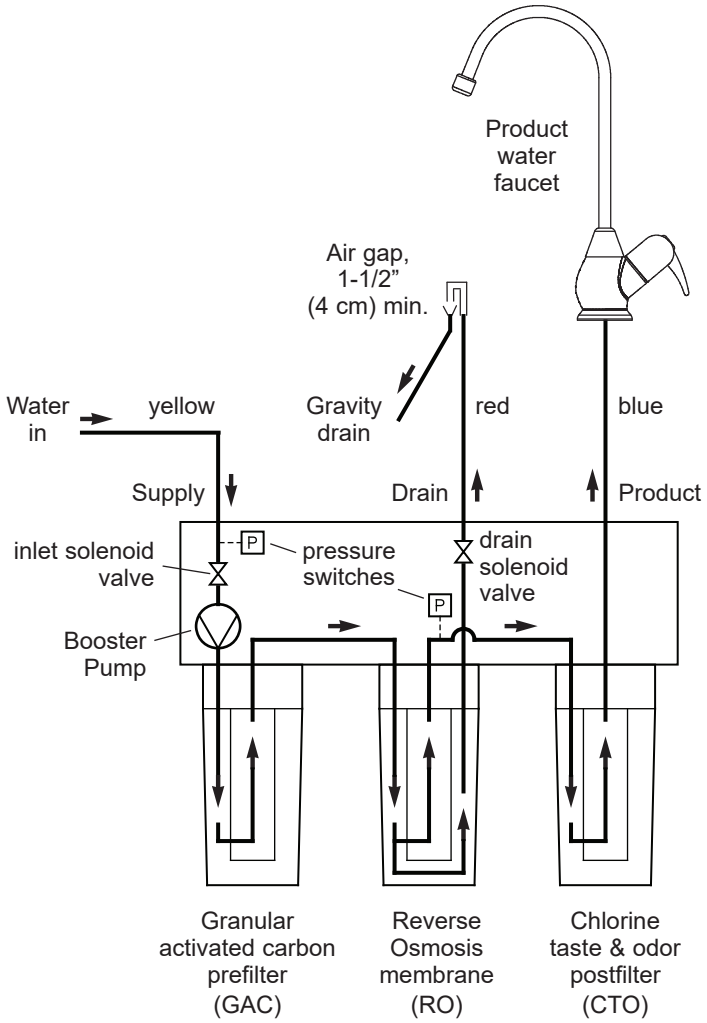
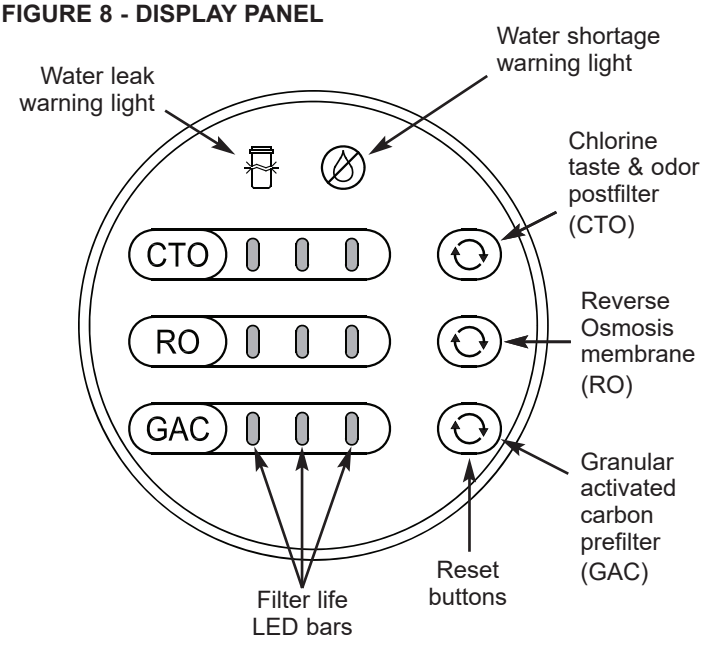


FIGURE 8 - DISPLAY PANEL



CARE OF YOUR REVERSE OSMOSIS SYSTEM

To keep your reverse osmosis system operating and producing high quality water, you must make sure supply water is always within the limits shown in the specifications. Good supply water helps to assure longer life from the RO membrane cartridge, prefilter and postfilter cartridges. However, each of these will wear out in time and need replacement.

This reverse osmosis system contains a replaceable treatment component critical for effective reduction of total dissolved solids. It is highly recommended that you have your water tested at least every 6 months to verify your system is performing properly. Total dissolved solids (TDS) test kits are available by calling IAS Labs at 1-602-273-7248, or check the water testing section of your local phone directory.

PREFILTER AND POST FILTER CARTRIDGES

You must replace the prefilter cartridge often to protect the RO membrane from being destroyed by chlorine, and/or from plugging with sediments in your water supply. If the water supply contains both chlorine and sediments, replace the prefilter cartridge at least every 6 months of product water use. Replace more often than 6 months if it begins to plug with sediments.

If the water has sediments only, with no chlorine, you may notice a slower making of product water as the prefilter collects the sediments. When this occurs, replace the prefilter cartridge. Also replace the post filter cartridge.

To replace the filter cartridges, see Figure 9:

1. Remove (turn to the left) the prefilter cartridge from the filter head.

2. Remove the postfilter cartridge (turn to the left) the postfilter cartridge from the filter head.

3. Discard both cartridges in a proper manner.

4. Insert new cartridges, turning to the right to reattach the cartridges.

5. Press, and hold for 5 seconds, the reset button for each filter cartridge replaced (see Figure 10). All three filter life bars for that cartridge will the be brightly lit.

6. After the filters have been changed, it is recommended to purge carbon fines, as follows: Open the RO faucet, let water flow through the system for 10 minutes, then close the RO faucet.

RO MEMBRANE CARTRIDGE

This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be one with identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.

The life of the RO membrane cartridge depends mostly on the pH and hardness of the supply water to the RO system (see specifications). Cartridge life is shorter with higher pH. For example, if supply water pH is from 6.8 to 7.7, the cartridge may last for well over one year.

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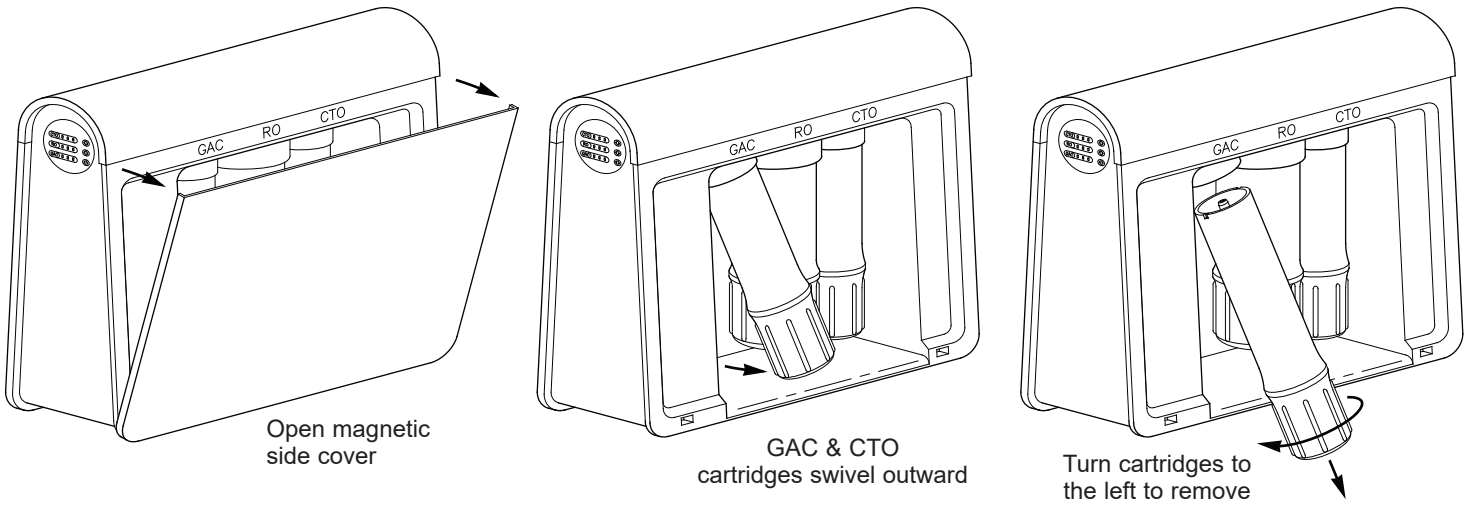
FIGURE 9 - REPLACE FILTER CARTRIDGES



CARE OF YOUR REVERSE OSMOSIS SYSTEM

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However, cartridge life may be as short as 6 months if the pH is as high as 8.5 to 10. Higher pH weakens the cartridge membrane and causes pin-hole leaks.

It's time to replace the RO cartridge when the production rate and/or quality of product water drops. Product water may begin to taste different or bad, indicating solids and organics are passing through the RO membrane. When replacing the RO cartridge, replace the prefilter and post-filter cartridges as well.

To replace the RO cartridge (see Figure 9):

1. Remove (turn to the left) the pre filter cartridge from the filter head to relieve pressure on the Reverse Osmosis cartridge.

2. Remove the RO cartridge.

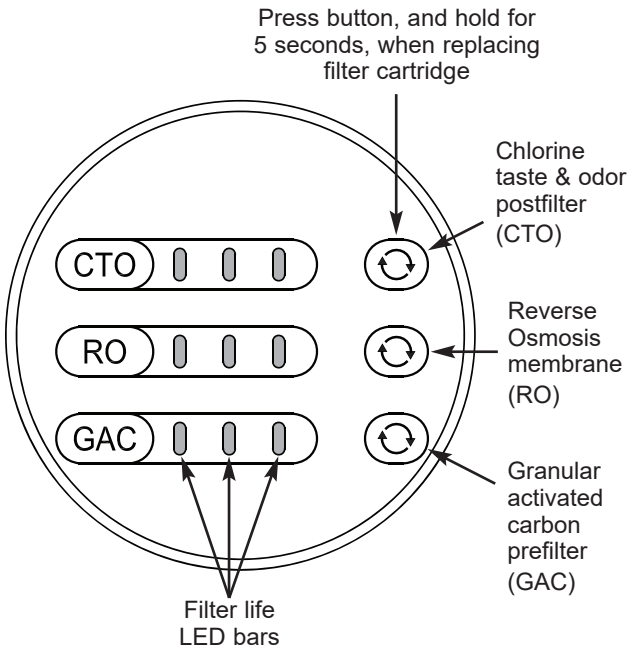
3. Remove the post filter cartridge.

4. Discard the cartridges in a proper manner.

5. Install new cartridges. Turn cartridges to the right to re-attach to the filter heads.

6. Press, and hold for 5 seconds, the reset button for each filter cartridge replaced (see Figure 10). All three filter life bars for that cartridge will the be brightly lit.

FIGURE 10 - RESET FILTER LIFE



7. After the RO membrane has been changed, flush the system for 2 hours, following the instructions under "Flush the System" on page 9.

SANITIZING THE SYSTEM

When installing a new system, or performing annual maintenance on an installed system, it is recommended to sanitize, using common 5.25% household bleach and the EcoWater Systems Sanitizing Kit (P/N 7301203). Follow the instructions supplied with the kit.

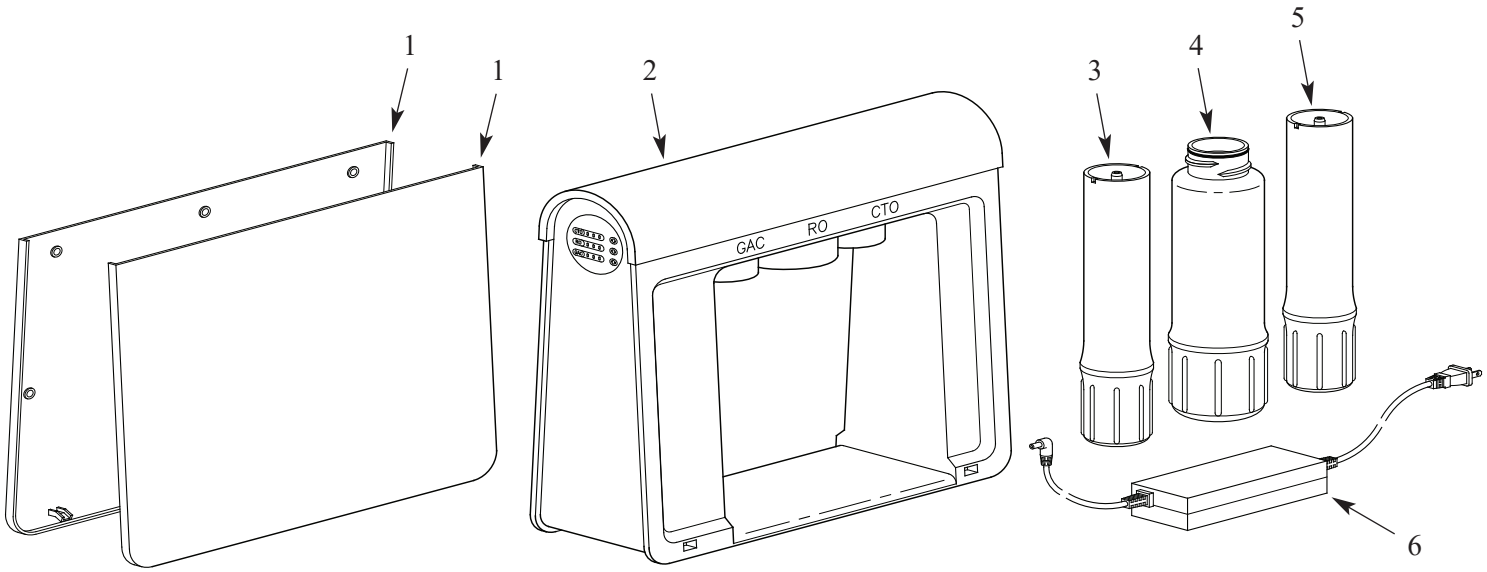
REVERSE OSMOSIS SYSTEM CARE GUIDE

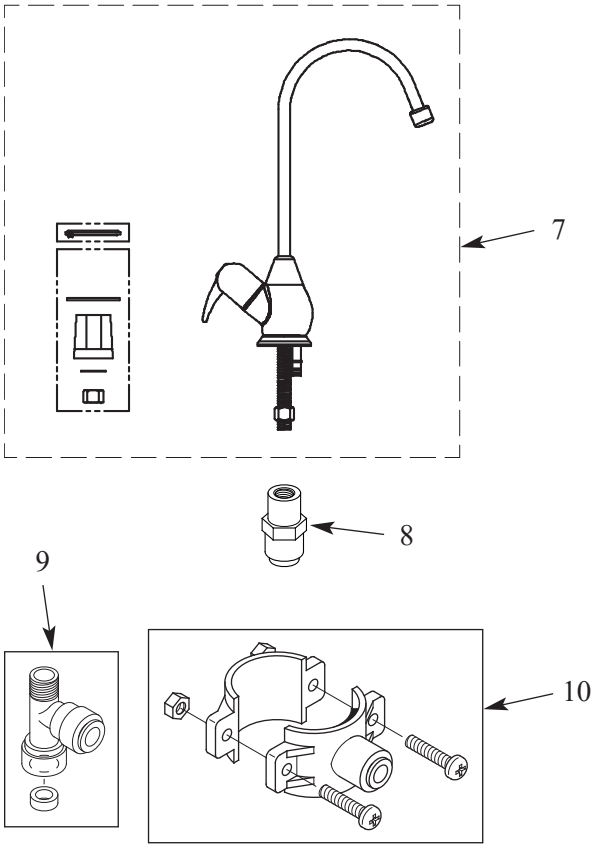
MODEL NO. ETRO-485
1. AT LEAST every 6 months, replace the prefilter and postfilter cartridges.
2. Replace the RO membrane cartridge when the percent rejection of total dissolved solids (TDS) is less than shown in the specifications (see **B**, below).
If any of the following occur before the 6 months, replace as directed.
A. Slow Making of Product Water: Replace the prefilter cartridge. If the production rate does not improve, replace the post filter cartridge and RO membrane cartridge.
B. High Total Dissolved Solids (TDS) in Product Water: If water quality is in question, contact your local dealer for testing. It is important to test both the treated and untreated water to determine system performance. If the TDS is not within the system's performance guidelines, replace the prefilter, post filter and RO membrane cartridges.
C. Chlorine Taste and/or Odor: Replace the prefilter, post filter and RO membrane cartridges.

TROUBLESHOOTING

TROUBLESHOOTING TABLE		
PROBLEM	**CAUSE**	**CORRECTION**
No LEDs are illuminated on the display panel.	The power cord is not plugged in.	Make sure that the power cord is plugged in.
	The power cord is plugged into an outlet controlled by a switch.	Plug the power cord into an outlet that is not controlled by a switch.
Water shortage light on the display panel (See Figure 8 on page 10).	Water supply to RO system is turned off.	Make sure that the water supply is turned on.
	Water pressure to RO system is below the minimum specification (20 PSI).	Make sure that the water supply is above the minimum pressure specification (20 PSI).
Water leak light on the display panel (See Figure 8 on page 10).	Water has been detected inside the bottom of the cabinet.	If water was spilled inside the cabinet during a filter catridge replacement, dry up the spilled water. Otherwise, locate and correct the leak.
Lights flashing on display panel and beeper sounding.	System has gone into fail-safe mode after 1 hour of continuous booster pump operation.	If flushing the system, clear the fail-safe mode, as directed in the “Flushing the System” section on page 9. Otherwise, determine the reason for continuous pump operation before proceeding.
Water leaking from quick connect fittings for supply, product and/or drain.	Tubing not inserted all the way into fittings.	See page 7 for instructions to disconnect and properly connect tubing to quick connect fittings.
Water spewing from the product water faucet base.	The drain tubing is connected to the product water faucet’s air gap, which is not able to handle the flow.	Do not connect drain tubing to the RO faucet’s air gap. The drain flow rate from this system is too high for it.
Chlorine taste and/or odor in the RO product water.	The amount of chlorine in your water supply exceeds maximum limits, and has destroyed the RO membrane.	If the water supply contains more than 2.0 ppm of chlorine, additional filtering of the water supply to the RO is needed. Correct this condition before doing maintenance on the RO system.
	The prefilter is no longer removing chlorine from the water supply.	Replace the prefilter, post filter and RO membrane cartridges.
Other taste and/or odor.	Post filter expended.	Replace the post filter cartridge. If taste and odor persists, replace the prefilter cartridge and RO membrane cartridge.
	RO membrane cartridge expended.	
	Contamination in system.	Use sanitizing procedure.
System makes product water too slowly.	Water supply to the RO system not within specifications.	Precondition the water supply as needed to conform before doing maintenance on the RO system.
	Prefilter or RO membrane cartridges plugged with sediments or fouled.	Replace the prefilter cartridge. If rate does not increase, replace the postfilter cartridge and RO membrane cartridge.
High total dissolved solids (TDS) in product water.	Water supply to the RO system not within specifications.	Precondition the water supply as needed to conform before doing maintenance on the RO system.
	RO membrane cartridge expended.	Replace the prefilter, postfilter and RO membrane cartridges.
Water leaking from airgap opening.	Drain side of airgap tubing plugged, restricted, or incorrectly connected to drain point.	Inspect and eliminate restriction or plug. Refer to air gap installation instructions for proper drain connection.

REPAIR PARTS





Key No.	Part No.	Description
1	7394604	Side Cover, Magnetic, single
2	7394646	Core, ETRO-485
3	7394612	GAC Prefilter Cartridge
4	7394620	RO Membrane Cartridge, 600 gpd
5	7394638	CTO Postfilter Cartridge
6	7394387	Power Supply, with Line Cord

FAUCET OPTIONS and ACCESSORIES (not included with RO system)		
Key No.	**Part No.**	**Description**
7	7272959	Faucet, Chrome
	7277187	Faucet, Brushed Nickel
8	7207920	Tubing Connector, 7/16-24 Thd. to 3/8” Quick Connect
9	119-8600088	Water Supply Fitting, 3/8” Q.C.
10	119-8600123	Drain Adaptor
■	7301203	Sanitization Kit
■	7161823	Tubing, 1/4” x 20 ft., white ●
■	7157280	Tubing, 3/8” x 20 ft., white ●

■ Not illustrated.

● Tubing lengths for remote location installations and for direct replacement for colored lengths of tubing.

To order parts call your local EcoWater dealer or go to www.ecowater.com to locate a dealer in your area.

WARRANTY INFORMATION

LIMITED WARRANTY
1 and 3 YEARS

EcoWater Systems Tankless Reverse Osmosis Drinking Water System
Model ETRO-485 (not including filter cartridges)

Warrantor: EcoWater Systems LLC, P.O. Box 64420, St. Paul, MN 55164-0420
www.ecowater.com

Warrantor guarantees, to the original purchaser when the product is purchased from an authorized dealer, and when installed and maintained in accordance with the instructions, that the reverse osmosis membrane will be free from defects in materials and workmanship and will perform in accordance with its written specifications for a period of one (1) year from the date the product is delivered, and that all other parts of the Tankless Reverse Osmosis Drinking Water System (ETRO-485) will be free from defects in materials and workmanship and will perform in accordance with their written specifications for a period of three (3) years from the date the product is delivered.

If during such respective period, a part proves, after inspection, to be defective, Warrantor will, at its sole option, either replace or repair the part without charge except normal shipping, installation and service charges. If a repair or replacement part is unavailable, Warrantor may refund the original purchase price. Labor to maintain the equipment is not part of the warranty. The prefilter and postfilter cartridges, which are expendable, are not covered by the warranty.

General Provisions

The above warranties are effective provided the Tankless Reverse Osmosis Drinking Water System is operated at water pressures not exceeding 100 psi (7.0 kg/cm^2), and at water temperatures not exceeding 100°F (38°C); provided further that the Tankless Reverse Osmosis Drinking Water System is not subject to abuse, misuse, alteration, neglect, freezing, accident or negligence; and provided further that the Tankless Reverse Osmosis Drinking Water System is not damaged as the result of any force of nature such as, but not limited to, flood, hurricane, tornado or earthquake.

The limited warranty does not cover damage due to: (a) transportation, (b) storage, (c) improper use, (d) failure to follow the product instructions or to perform any preventive maintenance, (e) modifications, (f) unauthorized repair, (g) normal wear and tear, or (h) external causes such as accidents, abuse, or other actions or events beyond Warrantor's reasonable control. Use of aftermarket, used, or non-manufacturer provided parts will void all warranties. Warranty does not cover failures due to improper product installation. Warrantor is excused if failure to perform its warranty obligations is the result of strikes, government regulation, materials shortages, or other circumstances beyond its control.

THERE ARE NO WARRANTIES ON THE TANKLESS REVERSE OSMOSIS DRINKING WATER SYSTEM BEYOND THOSE SPECIFICALLY DESCRIBED ABOVE. ALL IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED TO THE EXTENT THEY MIGHT EXTEND BEYOND THE ABOVE PERIODS. THE SOLE OBLIGATION OF WARRANTOR UNDER THESE WARRANTIES IS TO REPLACE OR REPAIR THE COMPONENT OR PART WHICH PROVES TO BE DEFECTIVE WITHIN THE SPECIFIED TIME PERIOD, AND WARRANTOR IS NOT LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES. NO DEALER, AGENT, REPRESENTATIVE, OR OTHER PERSON IS AUTHORIZED TO EXTEND OR EXPAND THE WARRANTIES EXPRESSLY DESCRIBED ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. This warranty applies to consumer-owned installations only.