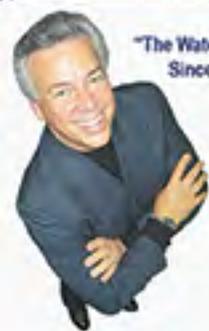


EZ TWIST 5 STAGE

Under Counter Reverse Osmosis System

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INTRODUCTION

Thank you for choosing eWater Health Emporium for your water purification needs. This serves as your installation manual and your yearly maintenance and trouble-shooting guide. This is an under counter reverse osmosis (RO) unit and has been designed for city water under the Environmental Protection Agency. *Do not use this unit for well water unless previously reviewed and authorized for use by an eWater water filtration specialist.*

Although some water pressure and household plumbing is involved, installation of this unit does not require a plumber. **However, improper installation can lead to leaks and water damage.** Call eWater at 214-350-1967 for questions.

UNIT PLACEMENT

The eWater RO unit is typically designed for placement under the sink in your kitchen. Alternative placements such as basements, secondary sinks, refrigerators, etc. may require extra components that can be available through one of the eWater specialists. For alternative installation help, call 214-350-1967.

Sanitizing the unit will also require 1 oz. or less of household bleach.

Teflon tape is recommended for some applications.

Parts List

- 1) Pre-assembled 5 stage filter bracket
 - a) RO membrane already connected
 - b) Sediment Filter #EZ5SED x 1 (connected)
 - c) GAC Carbon Filter #EZ5GAC x 1 (connected)
 - d) Carbon Block Filter #EZ5CARBON x 2 (connected)
- 2) RO Faucet (faucets may vary based on customer preferences)
- 3) Storage Tank x 1
- 4) Tubing coil
 - a) Black 3/8" tubing
 - b) Yellow 3/8" tubing
 - c) Blue 3/8" tubing
 - d) Orange 1/4" tubing
 - e) Red 1/4" tubing
- 5) Angle Stop Valve x 1



- 6) Garbage disposal drain line attachment (option 1)



- 7) Garbage disposal drain line attachment (option 2)



8) Non-Garbage Disposal Drain Line Attachment (option 3)



9) Non-Garbage Disposal Drain Line Attachment (option 4)



10) Tank Valve x 1



11) 3/8" x 1/4" reducer x 1



12) 1/4" x 1/4" tube connector



13) Panhead screws x 2



14) Bracket mount template. (The RO uses quick connect fittings. See the diagram for quick connect use on the last page of this manual.)

INSTALLATION INSTRUCTIONS

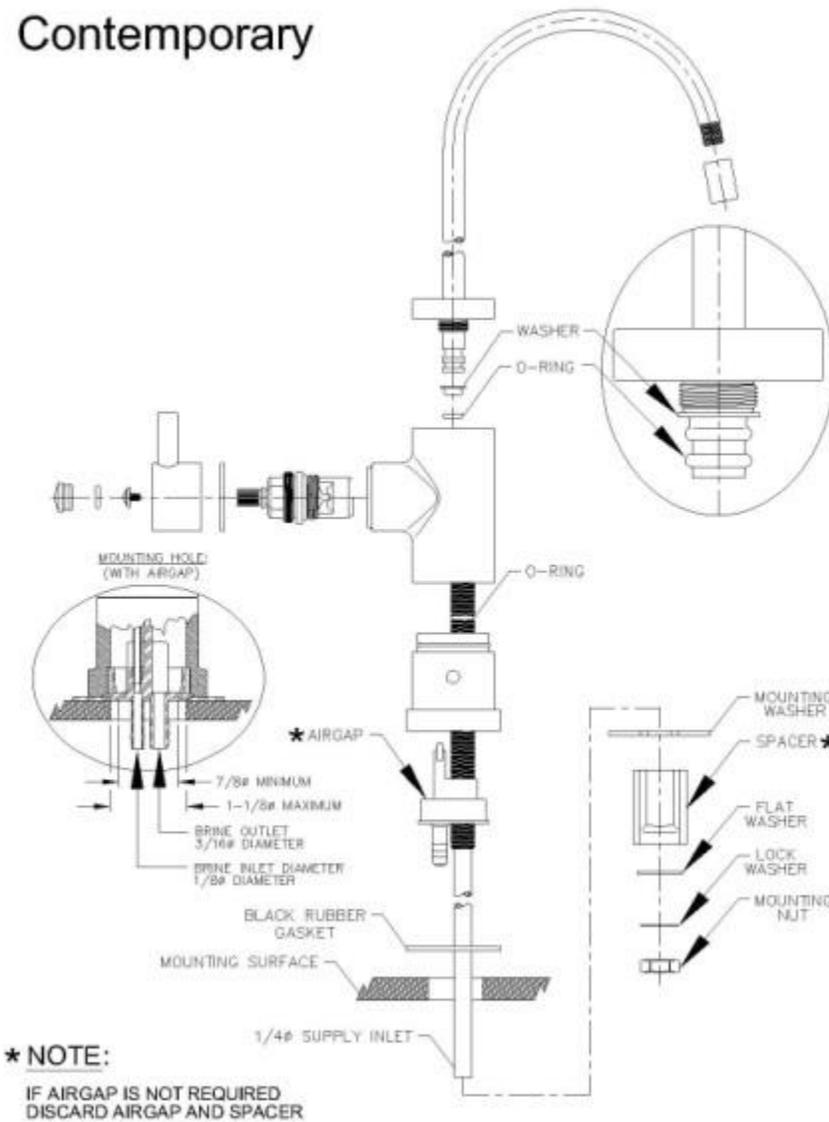
Start by choosing your location and clearing the area. Remove all components from the box and make sure all pieces are present. Next, piece together some of the unit to make steps easier.

1. Locate your multi-color tubing coil and separate the tubing. Make sure there are 5 colors (yellow, black, blue, red, and orange). Colors will correspond with installation location.
2. Locate the tank valve and attach the tank valve to the top of the storage tank. Do not over-tighten the tank valve. Insert the yellow tubing into the tank valve mouth. Gently push the yellow tube in until it cannot insert any further. Place the tank with yellow tubing off to the side until later.
3. Remove the pre-assembled EZ Twist Five Stage bracket from the box. Carefully inspect the component to make sure there was no damage during shipping. All filters should be firmly in place and labels facing the same direction. The RO membrane should fit tightly in the top mounting brackets. There should be a section of black 1/4" tubing with a 1/4" union connector coming from the back of the membrane. The tubing will be joined later.
4. Once the bracket has been inspected, hold the unit against the wall to find the correct location for the unit. The easiest way to do this is to hold the bracket against the wall so that its placement will be easy to access and maintain. Use the bracket template to screw in the panhead screws. The bracket allows for either left or right slide to lock the unit into place. Consider this when positioning your template. The unit can now be set aside after the location and screws are set while further installations are completed.
5. Faucets come with their own set of instructions. Your faucet may look like this:



See schematic below for a typical faucet:

Contemporary



First, locate the RO faucet (each faucet has its own specific instructions; follow the instructions that apply to your particular faucet). The red tube has been added to make installation easier (and is not required). It should look like the photos below:



6. Locate the angle stop feed valve. Beneath the sink you'll find the water shut-off valves. Locate the cold water valve that will be used for the eWater EZ Twist 5 Stage Reverse Osmosis System. Turn the cold water valve to the off position. Once the valve is off, turn the cold water on at the

standard faucet in order to relieve any pressure and ensure the water is shut off. Common cold water line from the valve up to your standard faucet will be flex tubing (yours may differ).

Remove the existing line from the shut-off valve to expose the standard 3/8" male threads of the existing cold water shut-off valve. Attach the special angle stop valve to the 3/8" threads of the shut-off valve. Plumbers tape (Teflon tape) is recommended for all threaded fittings to avoid leaks. Reattach the cold water line that feeds the standard faucet to the top of the angle valve. You may insert the 1/4" orange tubing into the feed valve mouth. Make sure the blue valve handle is in the off position (perpendicular to the orange tube).

7. Turn the cold water valve on and check the standard faucet to make sure it works correctly. Make sure there are no leaks. (If there are leaks, make sure all tubing is pressed in firmly, and double check all connections.)
8. The orange tube should *not* have any water coming out of it. No water indicates the feed valve is off and working correctly.

Drain Line Attachment

There are multiple drain line attachment options available. The four most common options offered are listed below. If another option has been provided for special circumstances, skip this section.

Option 1: Garbage disposal drain line attachment:

Garbage disposal drain line attachment:

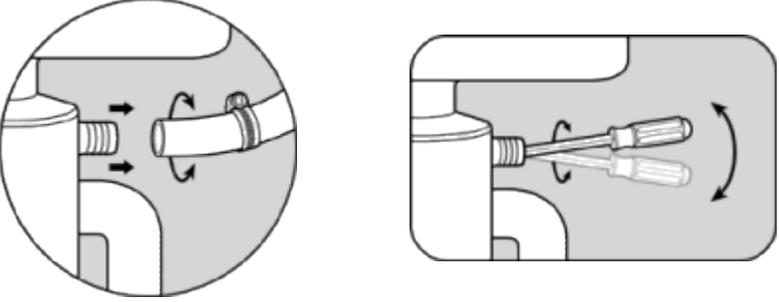
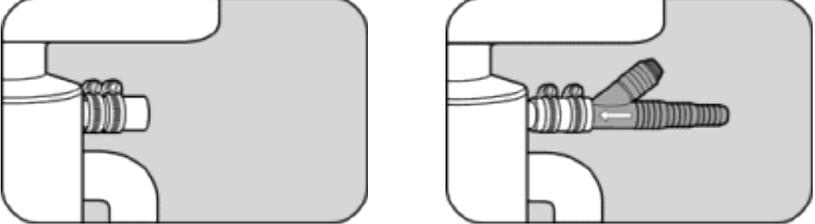
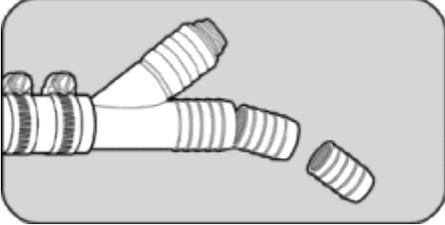
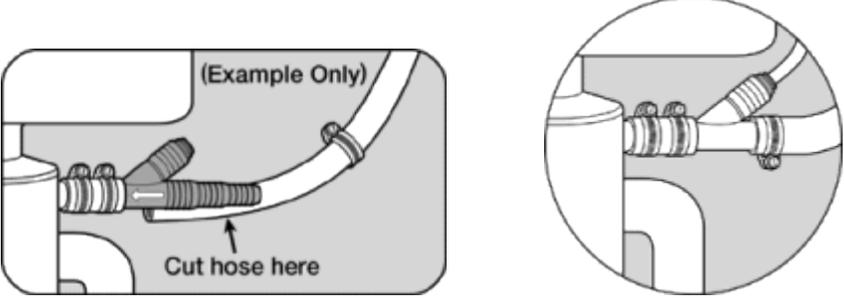
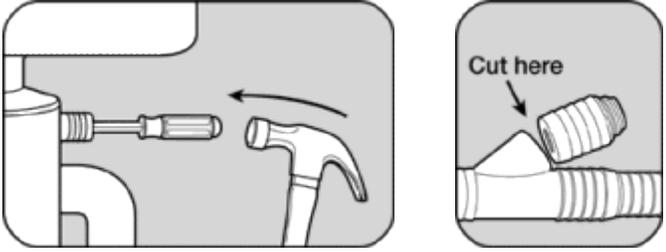
Designed specifically **for use with a garbage disposal**, it should be mounted on the disposal nipple provided for dishwasher drains. A **venturi**, which produces a self-cleaning suction, is created when installed in combination with a dishwasher drain.



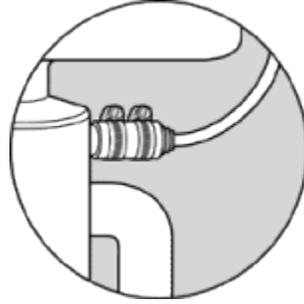
INSTALLATION PROCEDURES

(Average time to install is typically 1-3 minutes)

With Dishwasher

<p>Step One: Remove dishwasher hose from disposal and clean opening</p>	
<p>Step Two: Mount hose coupler over exposed nipple and mount DLA-D</p>	
<p>Step Three: Cut off smaller unneeded barb sizes</p>	
<p>Step Four: Reconnect dishwasher hose (cut to length) and insert RO drain tubing</p>	
<p>Without Dishwasher</p>	
<p>Step One: Remove knock-out plug and cut off Wye Branch</p>	

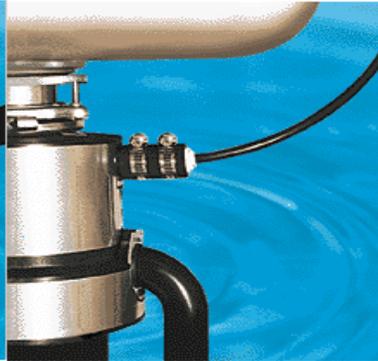
Step Two:
Connect Wye Branch with
hose coupler
and insert RO
drain tubing



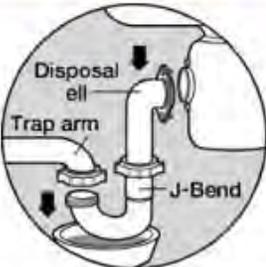
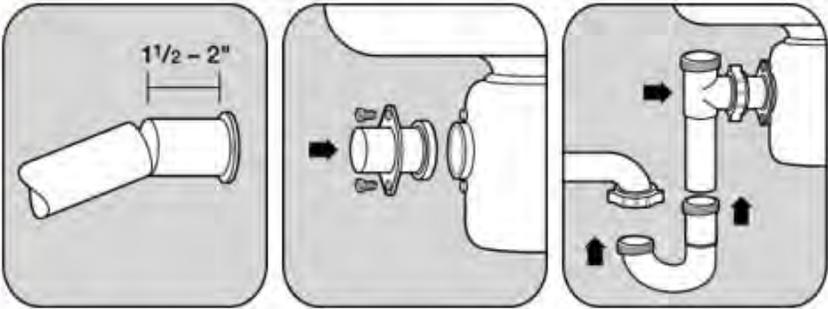
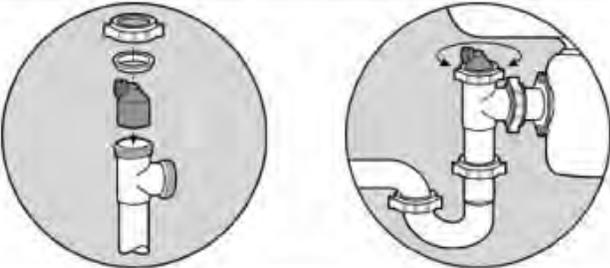
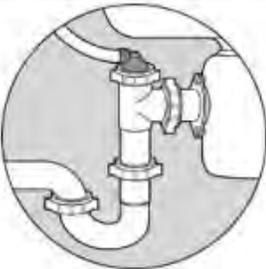
**INSTALLATION WITH
DISHWASHER
(Wye Configuration)**



**INSTALLATION WITHOUT
DISHWASHER
(Converts to Straight-in Connection)**



Option 2: Garbage disposal drain line attachment (ET109-002 3/8" Quick Connect Push-In Inlet Reverse Osmosis Drain Line Adapter Installation)

INSTALLATION PROCEDURES (Average Time to Install is typically 3-5 minutes)	
<p>Step One: Remove J-Bend & existing disposal ell</p>	 <p>Labels in diagram: Disposal ell, Trap arm, J-Bend</p>
<p>Step Two: Replace disposal ell with flanged tailpiece, mount disposal tee, mount trap</p>	 <p>Dimension: 1 1/2 - 2"</p>
<p>Step Three: Install DL9/12 adapter</p>	
<p>Step Four: Insert reject water tubing</p>	

OPTION 3: No Garbage Disposal Drain Line Installation

1. Select a location for the drain hole based on the design of the plumbing. It should be installed above the trap and on the vertical or horizontal tail piece.
2. Drill a 3/8" hole in the drain pipe, starting with the 1/4" drill bit. Drill a 1/4" hole in the drain pipe. Use the 3/8" drill bit to enlarge the hole. Clean the debris from the pipe and the hole before continuing.
3. Remove the black plastic nut from the front of the drain saddle assembly and set aside.
4. Place one half of the plastic drain saddle assembly on each side of the drain pipe with the fitting, and clamp loosely using the nuts and bolts included.
5. Align the hole drilled in the drain pipe with the hole in the drain saddle. A drill bit or other long narrow object may be used to help align correctly.
6. Use Phillips-Head screwdriver to tighten the clamp. Avoid over-tightening.
7. Slide the black nut onto the end of the black plastic tubing, threads facing outward.
8. Insert the end of the black tubing into the fitting on the drain saddle.
9. Secure the connection by tightening the nut onto the threaded fitting.



****IMPORTANT NOTE: Gravity brings water to the drain line attachment. There should be no slack on the 3/8" black drain line. Otherwise, water cannot flow up, and pockets of stagnant water can grow bacteria and clog lines. Make sure the black line is cut as closely as possible to exact distance between faucet and drain line attachment.***

Option 4: 3: No Garbage Disposal Drain Line Installation (ET112-002
 3/8" Quick Connect Push-In Inlet Reverse Osmosis Drain Line Adapter
 Installation:

Horizontal Installation	
Step One: Cut 1-1/2" from center of waste ell	
Step Two: Mount repair tee, DLA-9/12 and insert drain tube	

INSTALLATION PROCEDURES (Average time to install is typically 1-3 minutes)	
Vertical Installation	
Step One: Cut 1-1/2" from center of tailpiece	
Step Two: Loosen waste ell and mount repair tee	
Step Three: Install DLA-9/12 adapter and insert RO drain tube	

Prepping the storage tank:

1. The storage tank is preset to 7 psi and will be ready to fill out of the box. It may be necessary in the future to pressurize the storage tank during yearly maintenance.
2. Locate the 3/8" x 1/4" reducer and use it to connect the orange feed line to the yellow storage tank hose.
3. Open the storage tank valve by turning the blue cap so that it is parallel to the yellow tube. Turn the angle stop valve to the "on" position and allow the storage tank to fill (about 5 minutes).
4. Once the tank is full, turn both the angle stop valve and the tank valve to the off position. Separate the yellow tube from the orange and place the 3/8" x 1/4" reducer off to the side as it may be required for the faucet.
5. Connect the yellow tube to the 3/8" insert on the back of the Filter bracket. The insert is behind the Sediment Filter and is wrapped in yellow indicator tape to match the tubing.
6. Place the storage tank in the desired location under the sink. The tank is designed to stand up or lay on its side.
7. The tank is now ready. Leave the tank valve in the "off" position until after the filters have been flushed.

Almost Finished!

1. Connect the 3/8" blue tube from the faucet to the 3/8" inlet behind the eWater.com logo and purple "POST" label. You may want to cut the excess blue tubing. Remember, different attachments may be required for different designer faucets.
2. The red tubing comes as an extension. Connect the red tubing from the bottom of the faucet to the black tubing located at the back of the RO system. You can shorten the red tube from the faucet, but **do not cut the black tube From the RO membrane.**
3. Connect the orange feed line from the cold water angle stop valve to the 1/4" feed elbow indicated by the orange wrapping.
4. At this time, all tubing should be connected. The path water follows is through the angle stop valve into the orange tubing, and from the orange tubing to the elbow labeled feed and into the eWater Space Saver system starting with the sediment/carbon pre-filter (tallow). Water then flows from the sediment/carbon pre-filter to the RO membrane (green), and out the yellow tube to the storage tank. Waste water is also carried away from the RO membrane through the red tubing and then into the air gap of the faucet. From there, the waste water travels through the air gap and into the black tube, which should be as close to a straight line as it can be (gravity feed) and into the garbage disposal drain line attachment or drain saddle clamp. Once the RO faucet is turned on, water will be drawn from the tank and through the final carbon block finishing filter (purple) and up to the faucet through the blue tubing (alternate faucets may differ).

5. Mount the bracket and hide or reconnect tubing as the application calls for. Do not put tension on the tubing where it enters the elbows as this may lead to leaks.
6. Installation is complete. Review all steps before moving on to flushing the system.

Flushing the System

1. Once the system has been mounted and all tubing has been checked for secure connects, turn the angle stop valve to the “on” position.
2. Water should be entering the filters and begin saturating the media.
3. Turn the RO faucet to the on position and all the water to displace the air within the system. This may take 20-30 minutes.
4. Keep an eye on all connections for leaks.
5. Make sure no water is leaking out of the air gap on the faucet.
6. Water production will be slow. Look for a fine line about the width of a string out of the faucet mouth after 20-30 minutes. Allow this fine line to run consistently for 5-10 minutes.
7. Turn the faucet to the “off” position and open the tank valve. This will put the system under full pressure (it’s important to inspect all fittings again for any leaks).
8. Once all fittings have been checked for leaks and the system appears to be completely functioning, turn the RO faucet back to the “on” position and drain the storage tank.
9. Allow all the water to drain until the original production rate (a fine line about the width of a string) is reached. Once production rate is reached, return the faucet to the “off” position and allow the storage tank to refill. This will take about two hours.
10. Completely drain the tank a second time and allow it to refill completely again (another two hours). Drain the tank a third and final time.
11. The water is ready for drinking after the third drain.
12. In most cases, three of the four filters will last 12 months. Replace the Sediment Prefilter (red), the GAC Pre/Post filter (blue), and the Carbon Block Filter every year. The RO membrane should last around 3-5 years.



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