Reverse Osmosis Install Guide

Written by 602abcWATER
Step 1 – Confirm All Product Components

Open your packages and confirm that you have received all the correct components. If you are missing any of the listed items below, please contact us at 602.222.9283.

Package Contents

1 – 5 stage reverse osmosis system
1 – Sediment filter
  (preinstalled chamber 1)
2 – Activated charcoal carbon filters
  (preinstalled chamber 2 & 3)
1 – Thin film membrane filter
1 – Post carbon filter
1 – Lead-free brush nickel faucet
1 – 2.2 gallon storage tank
1 – red, green and yellow ¼” water line
1 – ¼” black drain line
1 – red and blue 3/8” water line
1 – ¼” Shut off valve
1 – 3/8” Tank Valve
1 – Brass Swivel Adapter
1 – 3/8” Faucet Apater
1 – /4” Drain Saddle
2 – Mounting Screws
1 – Compression Nut
1 – Ferrule
1 – Tube Insert
1 – Blue 602abcWATER bag
  1 – Small tube of silicone lubricant
  1 – Sanitizer packet

Please be sure to visit our website for installation resources to assist you during your install.

Phone: 602.222.9283 – Monday thru Friday 7am to 4pm Arizona time.
Email: support@602abcwater.com
Step 2 – Plan Your Reverse Osmosis Placement

Placement should be located under sink. This is the time you clear away all items located under your sink to make room for the new RO filter system and 2.2 gallon tank. Do not install yet. You will need room to prep the install prior to placement.

Step 3 – Position RO Faucet & Install

This installation requires no drilling. Our sink had a predrilled hole. I removed the cover and had a place to put my faucet. Take special precautions attempting to drill into certain materials such as granite, porcelain, and cast iron to name a few. We recommend a professional drill the hole prior to this installation.

1. Insert the RO faucet into position. Be sure to use the supplied black gasket & faucet cover. The rubber gasket should be covered by faucet cover.

2. Fasten the RO faucet to the counter top by connecting the supplied washer & hex nut from underneath the sink.
Step 4 – Install Drain Saddle on Your Drain Pipe

The RO system will need to filter out and drain unpurified water. This step will require you to drill a hole into your existing sink drain pipe. You will need ¼” drill bit.

1. Find a good install location for the drain saddle and mark a spot for drilling. The ideal drain hole location should be positioned near the top side of a horizontal straight pipe just beyond the drain trap.

2. There’s typically little room to position the drill directly over the top of the drain pipe, so positioning in an angle is fine. Just be sure to get as close to the top of the pipe as possible.

3. Before installing, place the supplied padded gasket to the inner wall of drain saddle lining up holes.

4. After drilling the drain pipe hole, install drain saddle into position. **Tip for lining up drain saddle port with the drain pipe hole:** Insert a drill bit or screw into the drain saddle port hole. Use the screw as a guide to locate the drilled hole and to help hold in place while you fasten the nuts & bolts of the drain saddle.
Step 5 – Connect Water Line to RO Faucet Adapter

1. Connect 3/8” faucet adapter to bottom of faucet.

2. Insert other end of blue line into the quick connect port located on the right side of the stage 5 inline filter.

Special Note: Be careful to conserve enough water line to use on additional water line connections.

3. Install the air

Special Note: If you need to release the water line from connection. Use your finger tips to push in the quick-connect collar while pulling the water line out.

Step 6 – Install Brass Swivel Adapter

1. Shut off the cold-water line valve that feeds the main faucet (right). Open the main faucet to the cold position to drain the water from the line.

2. Disconnect the cold-water line supply from the Angle stop. Be prepared for some water spill so have a towel and small catch container available.

3. Install the supplied brass swivel adapter to the angle stop and the cold-water line.
Step 6 – Connect Water to Reverse Osmosis

1. Prep an end of the supplied yellow water line. Locate the supplied plastic tube insert and ferrule, as well as the compression nut.

2. Be sure to connect the items on the water line in order. First slide the compression nut over the water line. Then slide the ferrule just over the end of the water line. Then insert the plastic tube insert.

3. Line up the water line to the connection point of the RO faucet. Be sure the tip of the water line is inserted slightly with the ferrule positioned to limit the depth. Slide over the compression nut to the threads and fasten.

Step 7 – Install RO Filter System & Tank

1. We suggest positioning RO system against side wall out of the way under the sink. We have drilled screws (provided) to raise our system off the bottom. Leaving unfastened is fine because it’s easier to move when needed.

2. Next, place the storage tank & stand on the opposite side of bay from the RO filter system.
Step 8 – Connect Drain Line

1. Locate the supplied black drain line.

2. Connect opposite end of the drain line to the drain saddle that you installed previously in step 4.

Step 9 – Connect Storage Tank to RO

1. Wrap Teflon tape around threads on storage tank. Next, install the supplied plastic shut-off valve to the top of the storage tank.

2. Connect one end of the supplied red water line into the tank’s plastic shut-off valve.

3. Connect opposite end of the water line to the RO filter system. The RO quick-connect port is located on the left side of the stage 5 inline filter.
Step 10 – Open Cold Water Valve

1. The installation of your new reverse osmosis drinking water system is now complete. It’s time to turn on your water to check your connections.

2. Open the cold-water valve back to the ‘On’ position (turn left).

3. Turn your RO faucet to the on position while the system begins to fill. Once you see a slow stream of water flow from your RO faucet, turn RO faucet to off.

4. Let the RO system fill up for an hour.

5. Check for any leaks

Step 11 – Fill & Flush RO System

After filling your RO system for an hour or two, turn your RO faucet on to begin flushing out the initial gallon.

Your first gallon of purified of water may have a grey color initially. This is caused from the carbon filter sediment that may be present. This is just temporary.

Once you see the water change to clear you’ll be able to begin enjoying your new purified filtered water.
TroubleShoot

Leaks on Tank Valve Assembly
1. Open drinking water faucet to drain storage tank. Let drinking water faucet run until it drips.
   Turn off cold water supply.
2. Push in on white collar of tank valve fitting and pull out on tubing. Unscrew the tank valve from storage tank. Rewrap threads on top of tank with at least 5-8 wraps of plumbers tape. Screw tank valve back onto tank. Trim 1/2” from end of tubing and reinsert 5/16” back into tank valve fitting.
3. Open the cold water supply and tank valve and close the drinking water faucet. Let system pressurize for several hours and check for leaks.

Leaks on Quick-Connect Fitting
1. Close the cold water supply and tank valve.
2. Depress plastic collar and pull out tubing.
3. Cut off 1/2” of tubing and place mark 5/8” from end of tubing. Tubing should be cut squarely. The internal and external burrs should be removed.
4. Push in tubing 5/8” into fitting.
5. Open the cold water supply and tank valve. If leak persist, call Technical Support.

No Flow or Slow Flow from the Brine (Drain) Line (Less than 1 1/2 cups per minute)
NOTE: Before checking brine (or reject) flow, make sure the system is producing water by turning off the tank valve and opening the faucet. Water should drip from faucet.
1. Examine the pre-filters. If clogged, replace and recheck the brine (or drain) flow rate.
2. If the pre-filter are not at fault, the brine (or drain) flow controller is probably clogged.

High TDS in Product Water
If high levels of TDS (Total Dissolved Solids) are detected in your product water (approximately 30% or greater of what is measured in your tap water, as determined with a conductivity meter), the RO membrane may need to be replaced, or the brine (or drain) flow control tubing may be clogged. See your dealer or plumber to test product water TDS.

Reduced Production
Slow or no product water flow usually indicates either a clogged pre-filter or an exhausted membrane. First, replace the pre-filters. If the production rate is not improved, replace membrane.

Gradual Return of Taste and Odor
Gradual return of unpleasant taste and odor over a period of time may indicate that your filter cartridges and/or membrane need to be replaced. See “Replacing the Pre-Filters and Replacing RO Membrane”.

Sudden Return of Taste and Odor
If shortly after complete servicing noticeable taste and odors return contact Technical Support.

No Water Pressure from the Drinking Water Faucet or Low Volume inn Storage Tank
1. Close the cold water supply to system.
2. Lift storage tank to see if it is empty. If not, open drinking water faucet to empty water from tank.
   NOTE: it may be necessary to pump a small amount of air into the tank with a bicycle pump to remove all the water from the tank.
3. When the tank is empty, use a pressure gauge to check the air pressure in the tank. An empty tank should contain approximately 7 to 10 psi pressure in the tank. Increase or decrease the air in the tank accordingly.
4. Open cold water supply. Let system run for 3 hours to fill tank, then check performance.

Filter Replacement

You have a 5-stage reverse osmosis drinking water system. This means you have 5 filters that will require future replacement. We recommend that you mark each filter with a sticker that displays the filter change date.

The first 3 stages of filters (1 Sediment & 2 Carbon) are typically changed every 6 months to 1 year depending on usage.

The 4th stage (thin film membrane) filter is typically changed every 2 years.

The 5th stage (carbon inline) filter is typically changed every 12 months.
Our company is managed by water professionals with over 25 years of combined experience. Our goal is to provide you and your family with the best equipment available in the industry, offer a support experience that is second to none and have fair pricing that everyone can afford. If you have any questions about which equipment is right for your home, or have installation questions, give us a call. We are located in Phoenix Arizona. We accept walk in orders from local residents. We offer support via email, phone, text or video chat. Technical support is available Monday thru Friday between the hours of 7am to 4pm AZ time.

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Products that Compliment a Reverse Osmosis

We want to thank you for choosing our business for your water treatment needs. We would like to show our gratitude by offering a limited time discount on your next purchase. Please call us within 30 days of purchasing your water softener system and you will receive a 5% discount on one of the following product lines listed below:

**Whole House Water Softener**
ABCwaters built Fleck 5600sxt Water Softener System

**Whole House Filtration**
Carbon Upflow Systems

*30 day time limit is based on our purchase invoice date.*