



HOW TO INSTALL AN UNDER-SINK WATER FILTRATION SYSTEM

These basic instructions show how to install an under-sink water filtration system or reverse osmosis water filtration system.

Time: 1 to 2 hours

Difficulty: Moderate

Highlights:

Step 1: Assess the Project

Step 2: Secure the Valves

Step 3: Attach the Drain Line

Step 4: Install the Filter Faucet

Step 5: Measure the Mounting Holes

Step 6: Hang the Filter System

Step 7: Attach the Tubing

tep 8: Purge the System

Detailed Instructions:

Step 1: Assess the Project

- Determine where the filter system will go and where the spout will be mounted.
- Remove all items from underneath the sink.
- Locate the cold water line. This is the line that the filtration unit will be connected to.
- Shut off the main water supply.



Step 2: Secure the Valves

- The saddle valve (Image 1) has a rubber seal to stop leaks along with a hollow needle that taps into the water line.
- Take one of the provided 2" bolts and feed it through the valve into the back-plate. Screw it in about 1", make sure that the notch in the back and the notch in the front are aligned (Image 2). This will insure that the valve will squeeze against the pipe.
- Place the valve around the pipe with the nozzle pointing downward; thread the second bolt into the back-plate. Use a flathead screwdriver to tighten it into place. Caution: Don't over tighten, or the pipe will crimp which will cause a leak.
- Twist the valve stem until the needle punctures the pipe and water begins to drip out. Once the pipe is punctured, back off the valve to purge the system.
- Re-tighten to shut off the drip. Now the valve is ready to feed the filtration system.
- *Safety Tip: When working on drain lines, it's a good idea to wear gloves and have a bucket ready.*



Step 3: Attach the Drain Line

- Unscrew the bottom section of the P-trap as well as the disposal drain connection. Loosen the drain nut then remove the tailpipe. Cut off the tailpipe leaving about 2" below the drain, and reattach.
- Take the drain line adaptor and mark the length to just at the disposal drain connection. Cut the drain adaptor to length with a PVC saw, then attach to the main drain line and reconnect all the joints.
- Note: Be sure to tighten everything down to prevent leaks.



Step 4: Install the Filter Faucet

- Place the base on the threaded stem and attach to the sink top. Place the large gasket on the stem under the sink surface, making sure the two barbed studs fit through the opening.
- Attach the mounting plate and the spacer followed by the metal washer and hex nut.
- Finally, insert the washer into the tubing adapter before securing it tightly to the faucet stud.



Step 5: Measure the Mounting Holes

- Mark the position of the mounting holes. Measure up three inches and make another mark. This extra space will keep the unit off the base and allow for easier filter replacement.
- Attach 1" screws and mounting-washers into the side of the cabinet with a normal drill or screwdriver.
- Measure the distance between mounting holes, in this case it will be 10".
- Transfer the marks to the other end of the cabinet and repeat the screw installation.



Step 6: Hang the Filter System

- You can stand the system with fixing it to the wall, or hang the filter system off the mounting washers and double check that there is 2" to 3" of height off the cabinet deck to allow for easy filter access.
- The system can lay flat. You want to make it easy to get at to change filters



Step 7: Attach the Tubing

- Attach the 1/4" tubing marked 1/4" barb to the barb fitting on the end of the faucet. Then, attach the 1/4" tube marked supply line directly to the T-valve installed earlier.
- Next, attach the tubing adapter to the end of the faucet stud and tighten.
- Slide the tubing into the compression nut and attach it to the tubing adapter hand tight. Then, take the basin wrench and tighten it as tight as possible to make sure the seal between the nut and the tubing is secure.
- Run the 3/8" tubing marked storage tank (if it is an RO system) to the tank shutoff valve. Use a small bit of Teflon tape around the threads to prevent leaks.



Step 8: Purge the System

- Turn on the cold water supply to check for leaks.
- Purge the system four times before using it. This allows all the systems to filter out any manufacturing sediments and breaks in the filtering process.
- If your unit has a UV light FLUSH the system for 5 minutes before connecting the tubing from the system to the UV light.
- The picture below shows the connector from the UV light that will run to the faucet
- Note that this unit has a shut off valve on the incoming side. This allows you to shut off the water when changing filters as well as if you all going to be gone for a number of days. It's just a little added protection.
- The tube from the UV light is not connected because you have to flush the system for 5 minutes before you connect it. Enclosed you will find a connector thaf fits on the tube and runs to the PURE T carbon filter.



Now it's time to enjoy filtered water right out of the faucet.