Installation Guide

Aquifer Reverse Osmosis

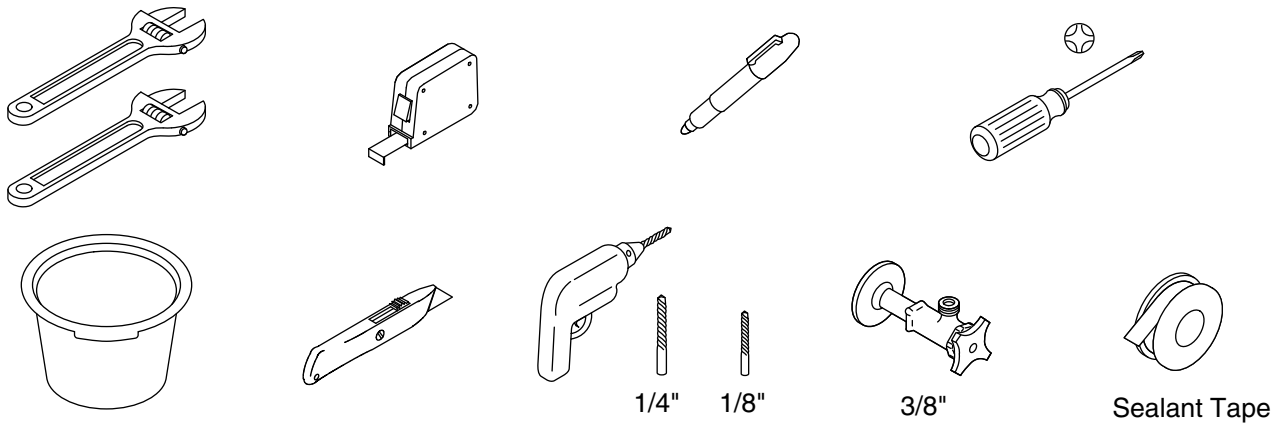
Water Filtration System

Français, page “Français-1”
Español, página “Español-1”

THE BOLD LOOK OF KOHLER®

1395432-2-C

Tools and Materials



Before You Begin

WARNING: Risk of personal injury. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

CAUTION: Risk of property damage. Do not install the unit where the temperature may drop below freezing, may be exposed to direct sunlight, or may be exposed to heat.

NOTICE: Read this entire installation guide thoroughly to prevent personal injury and property damage during installation and use of this product.

NOTICE: Check with your local public works department for plumbing code requirements. Follow their guidelines as you install this water filtration system.

NOTICE: This product has a limited service life. Keep a record of the date of installation and any other performed maintenance. Because of the limited service life, and to prevent costly repairs or possible water damage, replace the system every 10 years.

NOTICE: Turn off the water supply to the filter head, and remove the filter cartridge if it will be unattended for an extended period of time (approximately 4 weeks or more). Store the filter cartridge in a sealed bag in the refrigerator to maximize the remaining filter capacity.

NOTICE: If this device is not maintained and operated as specified in the installation guide, there is a risk of exposure to contaminants.

NOTE: Make sure that the mounting location and fastening hardware will support the system when installed and full of water.

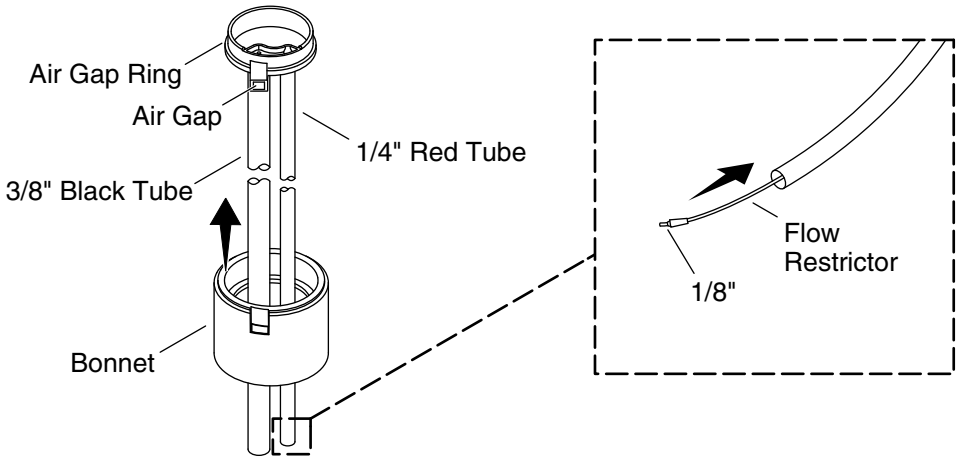
- ☐ Observe all state and local plumbing and building codes.
- ☐ Contaminants or other substances removed or reduced by this filtration system may not be present in your water. Refer to the Performance Data Sheet (included) for contaminants and reduction performance.
- ☐ System is not intended to convert wastewater or raw sewage into drinking water.
- ☐ Inspect the plumbing and supplies for damage. Repair or replace as needed.
- ☐ Install the water filtration system to a cold water supply only. Do not install the system to a hot water supply.

NOTE: The overall filter height is 16″ (406 mm).

Before You Begin (cont.)

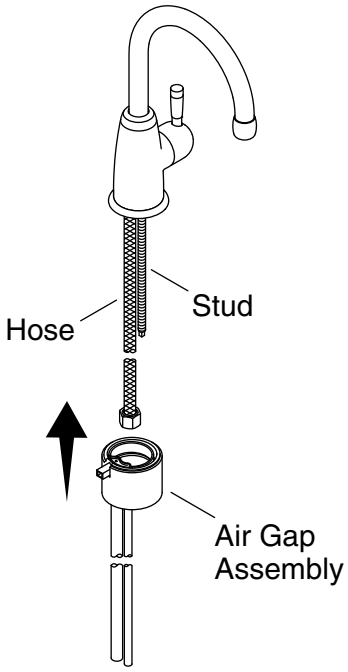
- ☐ The water filtration system is designed to be installed beneath a sink. Make sure that the bottom of the filter cartridge is at least 2″ (51 mm) above the floor of the cabinet, and will be accessible for filter cartridge replacement after installation.
- ☐ Replace the filter cartridges every 6 months and the membrane cartridge every 12 months, when the capacity has been exceeded, or when a noticeable decrease in water flow is observed.
- ☐ Flush the filter system thoroughly after prolonged periods of nonuse. Allow the water to flow for 5 or 6 minutes before use.
- ☐ This system connects to a 3/8″ (9/16″-24 UNEF-2A) compression connection. Special fittings may need to be purchased to accommodate other connections.
- ☐ Record your model number and installation date below. Also mark the installation date on the filter head and filter cartridges. Model number: _____ Replacement date: _____
- ☐ Keep this installation guide for future reference.

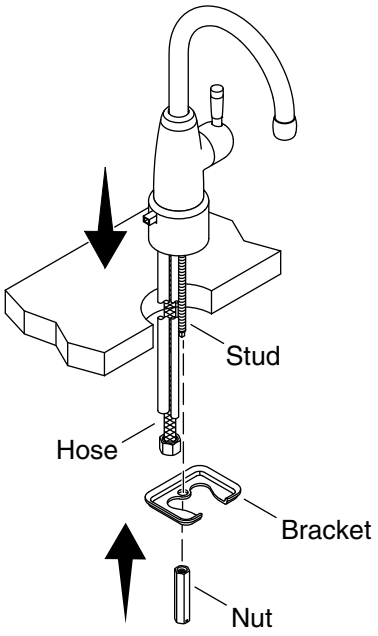
To learn more about other KOHLER water filtration systems, replacement cartridges, subscription services, and recycling program visit kohler.com.



1. Assemble the Air Gap

- ☐ Install the bonnet to the underside of the air gap ring.
- ☐ Align the air gap with the bonnet window.
- ☐ Determine the length needed to connect the 1/4″ red tube to the membrane drain port. Cut any excess tubing.
- ☐ Install the flow restrictor into the red tube. The flow restrictor must extend 1/8″ from the flange as shown. The flange must be flush with the end of the red tube.





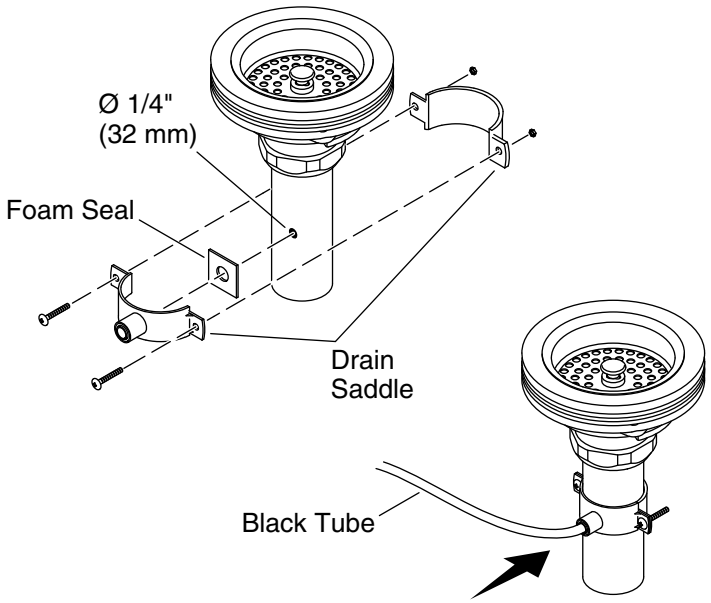
2. Install the Faucet

IMPORTANT! For existing installations: Turn off the cold water supply to the filtration system, and turn on the faucet to relieve water pressure.

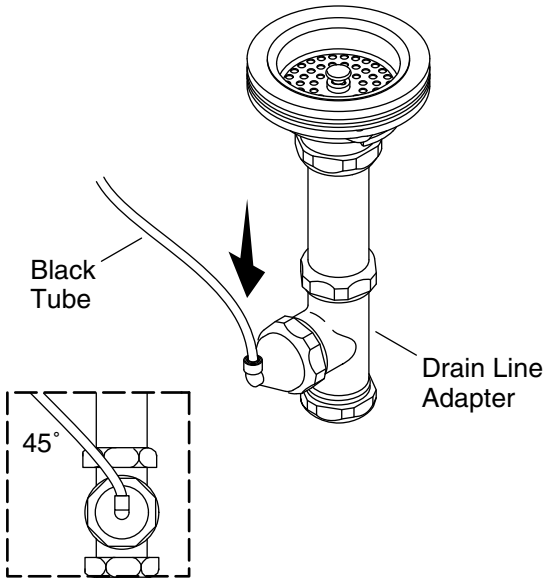
NOTE: For existing installations: The hose connected to the cold water supply will need to be uninstalled.

- ☐ Remove the O-ring from the base of the faucet body and discard.
- ☐ Install the air gap assembly to the underside of the faucet.
- ☐ Install the faucet to the sink.
- ☐ From underneath the sink, slide the bracket over the stud.
- ☐ Tighten the nut against the bracket to secure the faucet into place.

Saddle Connection



Drain Line Adapter



3. Connect to the Drain

CAUTION: Risk of Property Damage. Do not drill through the opposite side of the drain tailpiece.

NOTICE: Do not connect the drain line downstream of a disposer or in a horizontal pipe.

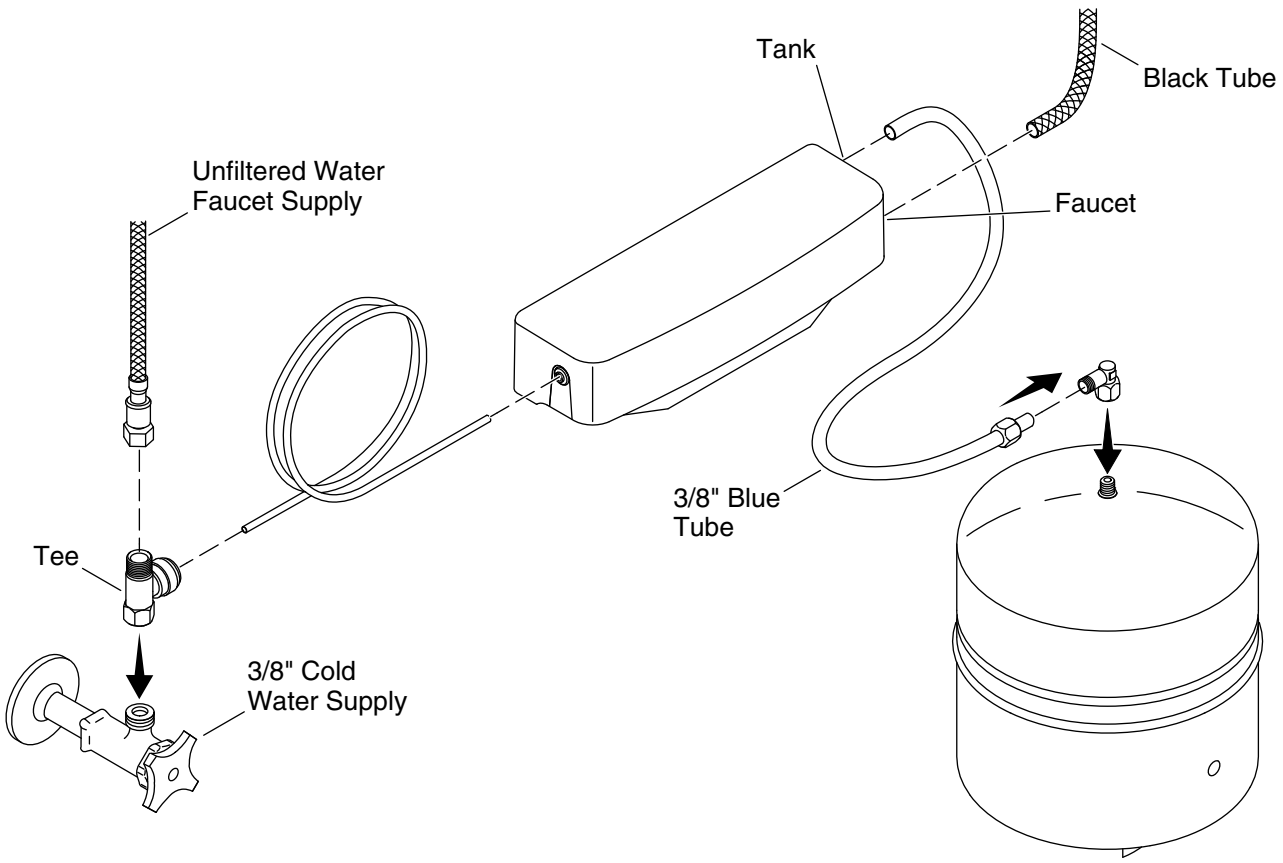
NOTE: If the system is being installed in a region governed by the UPC, a UPC-approved drain line adapter should be used. Follow the ″Drain Line Adapter″ instructions.

Saddle Connection

- ☐ Punch out the center hole on the foam seal and use as a template to locate the drilling position above the drain tap.
- ☐ Mark the location with a pencil.
- ☐ At the marked location, drill a 1/4″ (32 mm) hole through the wall of the drain pipe.
- ☐ Remove the film from the foam seal and attach to the inside of the front plate of the drain saddle, aligning the holes.
- ☐ Position the saddle on the drain tailpiece and securely tighten using the nuts and the screws provided.
- ☐ Route the 3/8″ black tube from the faucet air gap to the connector on the saddle.
- ☐ Cut the black tube as needed for a taut path to the connector. Do not kink the hose.
- ☐ Insert the end of the black tube into the connector approximately 1″ (25 mm) until it stops.

Drain Line Adapter

- ☐ Install the drain line adapter (not provided) to the drain tailpiece with the connector facing up.
- ☐ Route the 3/8″ black tube from the faucet air gap to the connector on the adapter. The tube should not drop below 45° from a vertical position.
- ☐ Cut the black tube as needed for a taut path to the connector. Do not kink the hose.
- ☐ Insert the end of the black tube into the adapter until firmly seated in the connector.



4. Plan the System Layout

CAUTION: Risk of property damage. Locate system components sufficiently within the hose lengths to avoid leakage at the connection points.

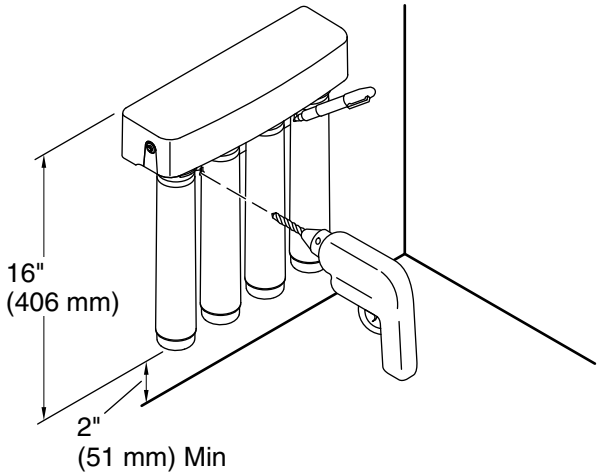
CAUTION: Risk of property damage. Do not damage, kink, or crimp the tubing. Avoid cutting the tubing. If it is necessary to cut the tubing, use a sharp utility knife to make a clean and square cut to avoid water leakage.

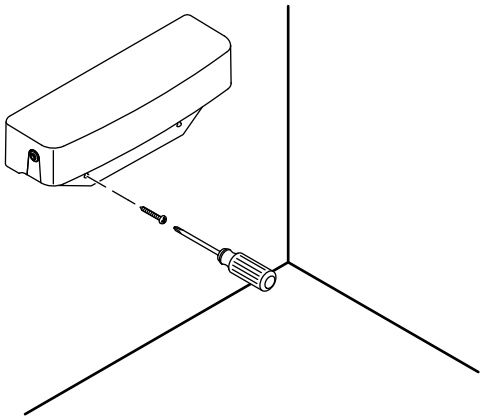
Prepare the Water Supply

- ☐ **For existing installations:** Turn off the cold water supply, and turn on the faucet to relieve water pressure and drain water from the line.
- ☐ Disconnect the cold water supply line from the cold water supply valve.
- ☐ If both filtered and unfiltered water will be supplied, install the tee (provided) to the cold water supply valve.

Install the Water Storage Tank

- ☐ Apply sealant tape to the nipple located at the top of the tank.
- ☐ Handtighten the tank connector onto the tank nipple. **Do not overtighten.**
- ☐ Position the tank in the installation location using the mounting stand to secure it into place.
- ☐ Cut any excess 3/8″ blue tube.
- ☐ Install the tank connector nut onto the 3/8″ blue tube.
- ☐ Push the 3/8″ blue tube all the way into the tank connector.
- ☐ Handtighten the tank connector nut. **Do not overtighten.**





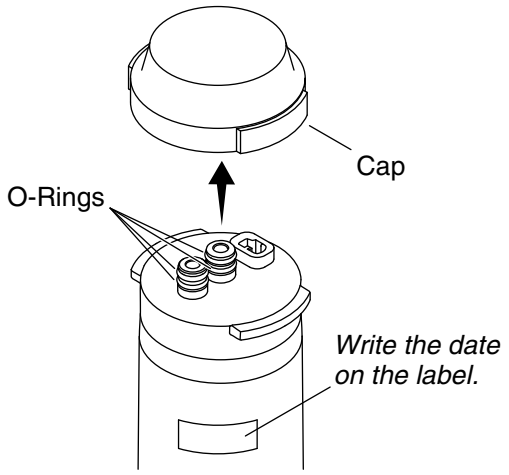
5. Mount the Filtration System

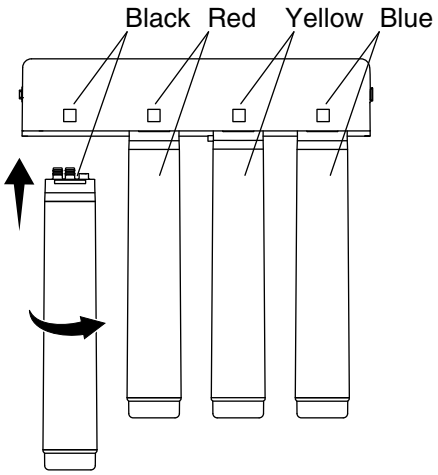
IMPORTANT! This unit is designed for vertical installation.

IMPORTANT! The mounting location of the water filtration system is critical. Verify that the bottom of the filter cartridge will be at least 2″ (51 mm) from the floor of the cabinet. Ensure that the system will not interfere with other items and will be easily accessible. Make sure that the tubing will not be under tension when installed.

IMPORTANT! Only connect water from the supply line to the filter head inlet. Only connect water from the filter head outlet to the tank and faucet. System performance and filter cartridge capacity will be compromised if connected incorrectly. ″INLET,″ ″TANK,″ and ″FAUCET″ are molded into the filter head.

- ☐ Align the mounting holes of the filter head at the determined mounting location.
- ☐ Mark the mounting-hole locations with a permanent marker. Set the filter head aside.
- ☐ Predrill the mounting holes.
- ☐ Partially thread the fasteners (provided) into the cabinet wall, and slide the filter head over the fasteners.
- ☐ Secure the filter head in position by tightening the fasteners.





6. Install the Filter Cartridges

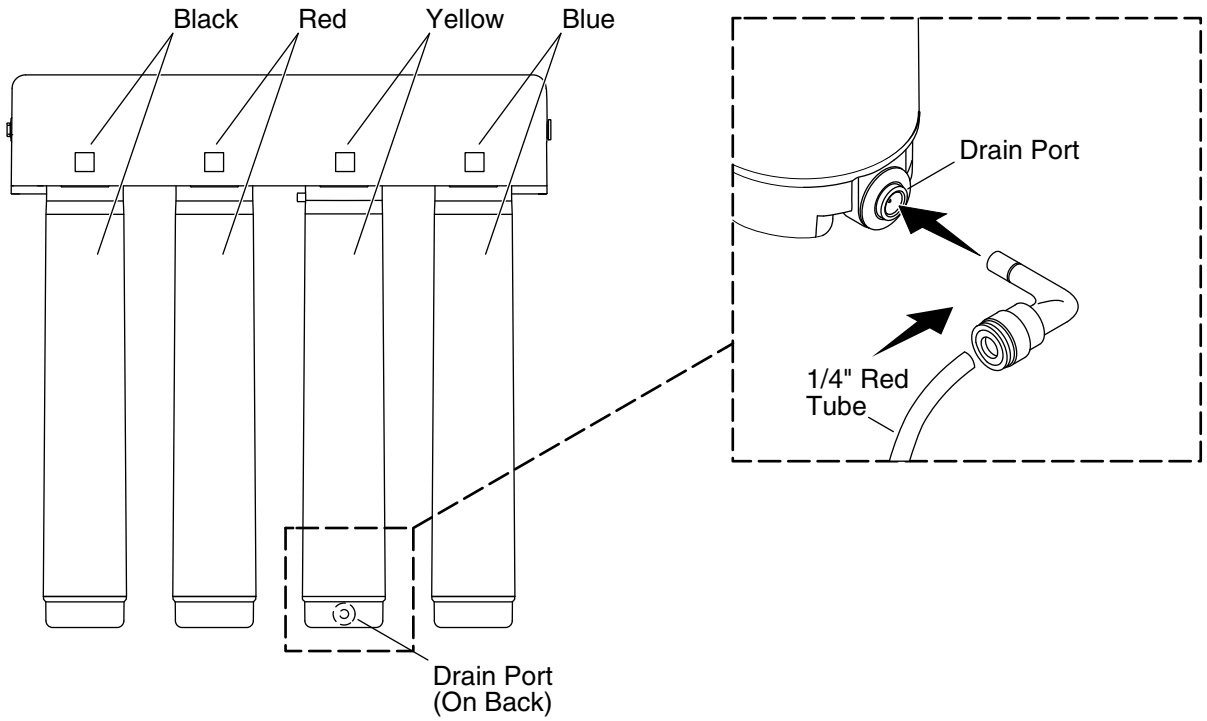
IMPORTANT! Replace all of the cartridges at the same time to maintain proper performance.

NOTE: See the "System Maintenance" section for cartridge orientation and conditioning instructions.

- ☐ Write the installation date on the new filter cartridge labels.
- ☐ Remove and discard the cap from the filter cartridge.
- ☐ Inspect the filter cartridges for damage.
- ☐ Verify that both sets of O-rings are present and are positioned correctly in the grooves.

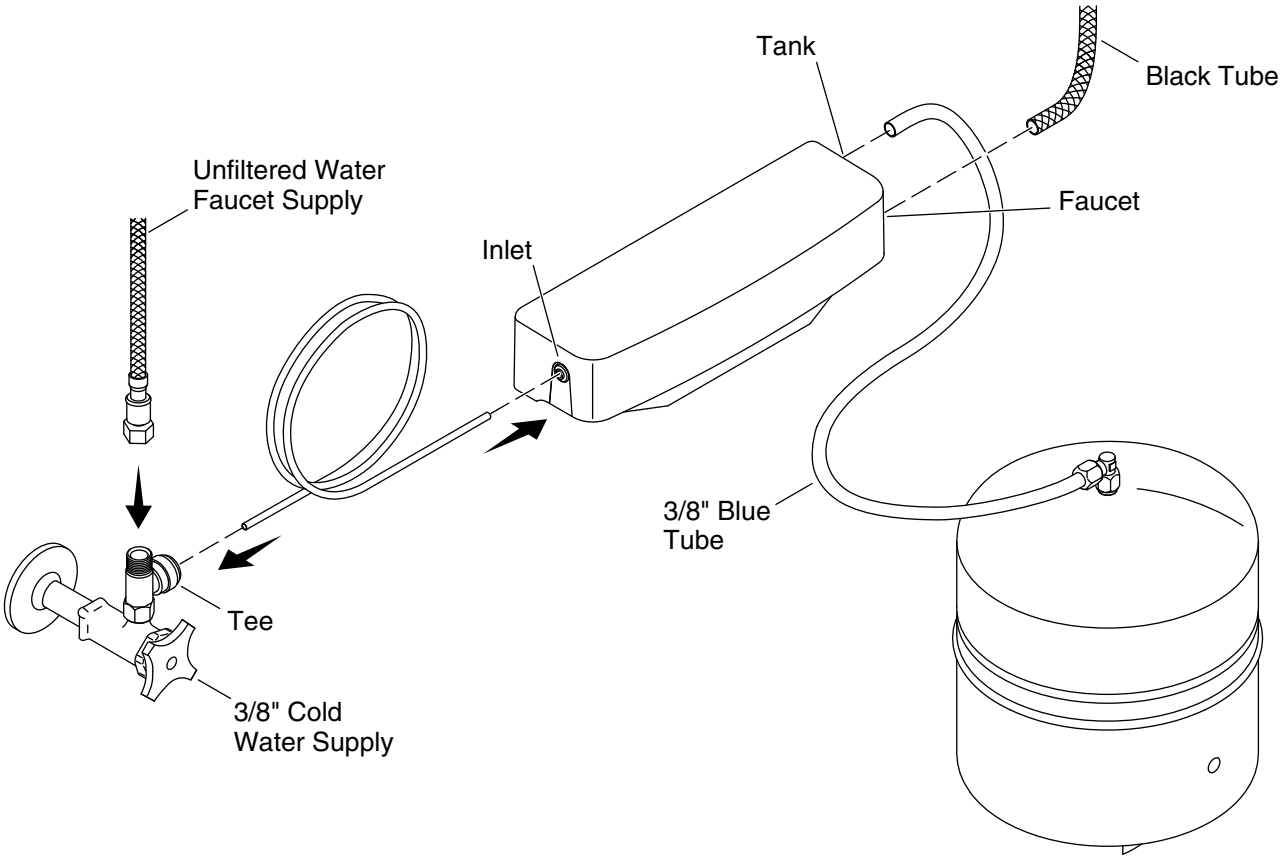
NOTE: The filter cartridges will only engage into the filter head one way. Do not force the components.

- ☐ Align the filter cartridge so the label is to the left, and press upward so the filter cartridge key engages into the filter head.
- ☐ Use your hand to rotate the filter cartridge clockwise 90° until it stops and is securely engaged into the filter head.
- ☐ Turn on the cold water supply and check all connections for leaks.
- ☐ Run water through the faucet for 10 minutes to remove any air and carbon particles from the system.



7. Connect the Filtration System

- ☐ Insert the elbow into the drain port on the back of the membrane filter.
- ☐ Insert the 1/4″ red tube with the flow restrictor into the elbow. Verify that the connection is secure.

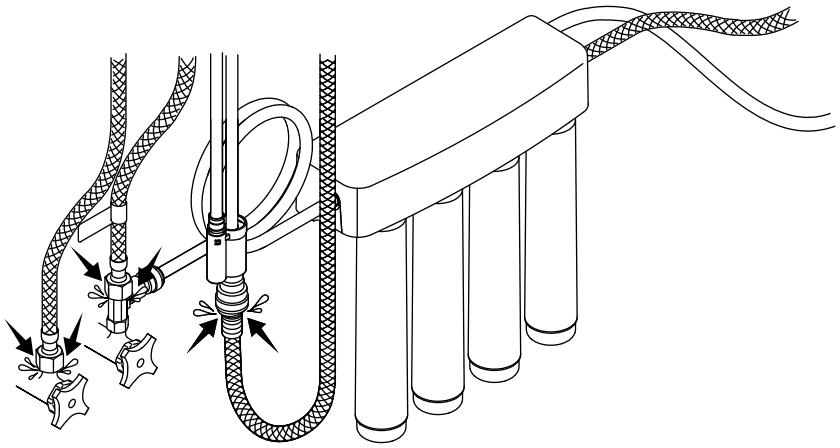


8. Connect the Hoses

IMPORTANT! Water from the supply line **must** be connected to the filter head inlet. Water from the tank head outlet **must** be connected to the tank. Water from the faucet head outlet must be connected to the faucet. System performance and filter capacity will be compromised if connected incorrectly.

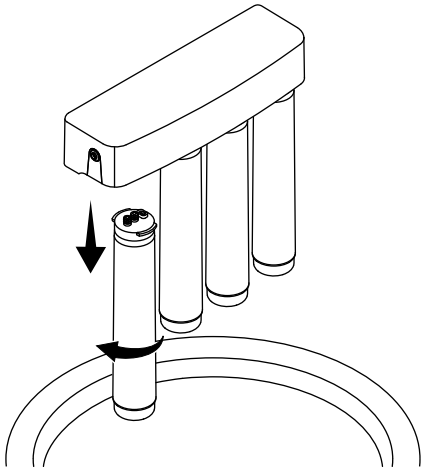
NOTE: Connect the hoses as directed. **Do not** reverse the connections.

- ☐ Press one end of the inlet tube firmly into the inlet port on the filter head.
- ☐ Connect the other end of the tube to the cold water supply.
- ☐ Insert the end of the 3/8″ blue tube into the outlet of the manifold labeled “TANK” approximately 5/8″ until it stops.
- ☐ Locate the black tube already attached to the faucet stem.
- ☐ Measure the length needed to connect to the filter head outlet labeled “FAUCET” on the water filtration system.
- ☐ If necessary, cut the black tube to the desired length. Verify there is enough tubing to freely assemble and attach.
- ☐ Insert the end of the black tube into the filter head outlet labeled “FAUCET.” Verify connection is secure.
- ☐ If used, connect the unfiltered water faucet inlet to the tee.



9. Installation Checkout

- ☐ Turn on the cold water supply.
- ☐ Check all connections for leaks. Repair as needed.
- ☐ Run water through the faucet for at least 5 minutes to remove any air and carbon particles in the system.



Cartridge Maintenance

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

NOTE: Used filter cartridges can be recycled. **In the U.S. only,** follow the instructions on the envelope provided. Drain as much water as possible from the used filter cartridge before shipping.

- Replace the filter cartridges every 6 months and the membrane cartridge every 12 months, when the capacity has been exceeded, or when a noticeable decrease in water flow is observed.
- Position a bucket, pan, or rag under the filtration system to catch residual water.
- Turn the filter cartridge 90° counter-clockwise, and pull-down gently to remove.
- Discard or recycle the used filter cartridge.
- Refer to the ″Install the Filter Cartridge″ section to install the new filter cartridge.

Troubleshooting

This troubleshooting guide is for general aid only. For warranty service, contact your dealer or wholesale distributor.

For service parts and replacement filter cartridges, visit your product page at kohler.com.

Symptoms	Probable Causes	Recommended Action
1. Water leaks between the filter head and the filter cartridge.	**A.** An O-ring is damaged, dirty, or out of place.	**A.** Turn off the water supply, and relieve water pressure. Remove the filter cartridge and inspect the O-rings for damage or debris, and ensure that the O-rings are in place. Reinstall the filter cartridge, turn on the water supply, and check for water leakage.
2. Water leaks at a tubing connection.	**A.** Tubing is not cut square, or is damaged or crimped.	**A.** Turn off the water supply, and relieve water pressure. Press in the collar around the fitting at the leak, and pull the tubing to remove. Use a sharp utility knife to cut 1/2″ (13 mm) off the end of the tubing. Reinsert the tubing into the fitting. Turn on the water supply and check for leakage.

Troubleshooting (cont.)

Symptoms	Probable Causes	Recommended Action
3. Water leaks at a threaded connection.	**A.** The connection is damaged or dirty.	**A.** Turn off the water supply, and relieve water pressure. Disconnect the fitting, and inspect the seal for damage or debris. Remove any debris or replace the damaged fitting. Securely reconnect the fitting, but do not overtighten. Turn on the water supply and check for leakage.

K-22155 system tested and certified by IAPMO R&T Lab and IAPMO R&T against CSA B483.1, NSF/ANSI 42, 53, 58, 401, and NSF Protocol P231 for specific performance claims as verified and substantiated by test data. For more information, refer to the Performance Data Sheet or visit kohler.com.

Arsenic Fact Sheet

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. Information about arsenic in water can be found on the Internet at the US 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 K-22155 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 US EPA 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 K-22155 system must be replaced annually to ensure that the system will continue to remove pentavalent arsenic. The component identification and locations where you can purchase the component are listed on kohler.com/filtration.