WATERGNOME™ Reverse Osmosis Filtration Systems

INSTALLATION INSTRUCTION & OWNER'S MANUAL



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Thank you for choosing the WaterGnome Reverse Osmosis Water Filtration System.

Before Installation

Inspect the package

Please open the box, and take all the components and tool kit out. Inspect them to ensure that nothing was damaged during shipping. If any part is cracked or broken, please immediately contact WaterGnome Customer Support for replacement. Identify and get familiar with the components.

Recommended tools list

- Variable speed drill with two bits: ¼" for drilling a hole in PVC drain pipe (can be patched with duct tape or
PVC patch kit when moving), ½" hollow diamond for drilling a hole into the countertop for the drinking faucet
- 5/8", 9/16" openend wrench, or adjustable wrench, pliers
- Phillips screwdriver
- Scissors or utility knife

Operating conditions

- Maximum water pressure: 80 psi, or installation of a pressure regulator is required if
there is high water pressure or water hammer.
- Minimum water pressure: 40 psi, or a booster pump is needed to improve RO efficiency.
- Water temperature: 40 – 100 °F (4 37 °C) (This RO system is NOT designed for HOT water).
- Maximum TDS: 750 ppm (NOT designed for water source with extremely high TDS).
- Install this RO system in a location where it is safe from hot/cold weather and direct sunlight. Avoid hitting,
dropping, or dragging as they may cause cracks and leaks.

Liability:

The installer is responsible for any leaks resulting from installation of tubing or related fittings. The installer must check over the entire unit completely while under pressure to ensure unit is not leaking and functioning properly. Liability resulting from failure to check for leaks while under pressure is the sole responsibility of the installer. Maximum pressure rating is 85 PSI. If local water pressure exceeds 75 PSI, a pressure regulator must be installed, reducing the water pressure into the system.

Additional Warnings:

- Open the spigot to flush water from first tank.
- After installation check the unit for leaks.
- Do not connect to hot water supply.
- Change filters regularly.
- Do not freeze unit.
- Heed source water operating parameters.
- Do not use with microbiologically unsafe water.
- Do not use with water of unknown quality.

GOT A QUESTION?
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Included Components



1x RO machine head



1x Storage tank



1x Housing Wrench



1x Feed Water Adapter



1x Faucet



1x Teflon tape



1x Drain saddle ¼"

Installation Tips

How to use QuickConnect fitting

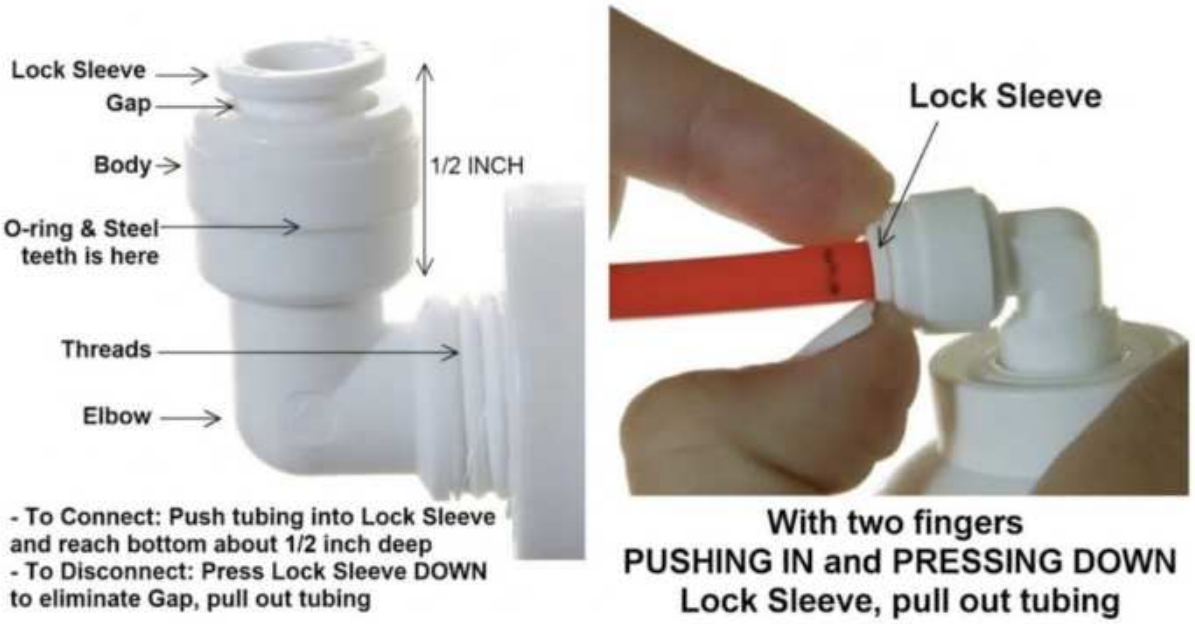


To Connect:

1. Cut the tubing end perfectly square using a utility knife or tube cutter.
*(Avoid scissors; they flatten the tube and cause leaks).

2. Mark the tubing ½ inch from the cut end.

3. Push the tubing firmly into the fitting until the mark reaches the collar.



To Disconnect:

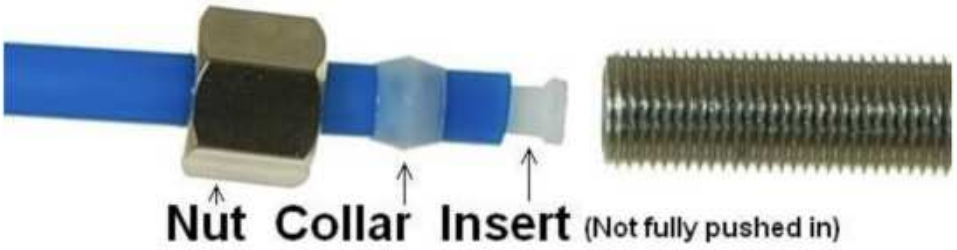
1. Remove the blue lock clip.

2. Push and hold the lock sleeve flat against the fitting.

3. Pull the tubing out while holding the sleeve down.

Compression Fitting Assembly

(For connecting PVC tubing to threaded metal inlets like faucets or refrigerators)



1. Slide the brass nut, then the collar, onto the end of the tubing.

2. Push the tube insert fully into the open end of the tubing.

3. Push the tubing and collar into the tapered opening of the metal inlet.

4. Thread the nut onto the inlet and tighten firmly with a wrench to secure the seal.

Drilling a Sink or Countertop Hole

Warning: If you have never drilled stone or porcelain, watch a tutorial video first.
Mistakes can permanently damage your countertop.

Stainless Steel:

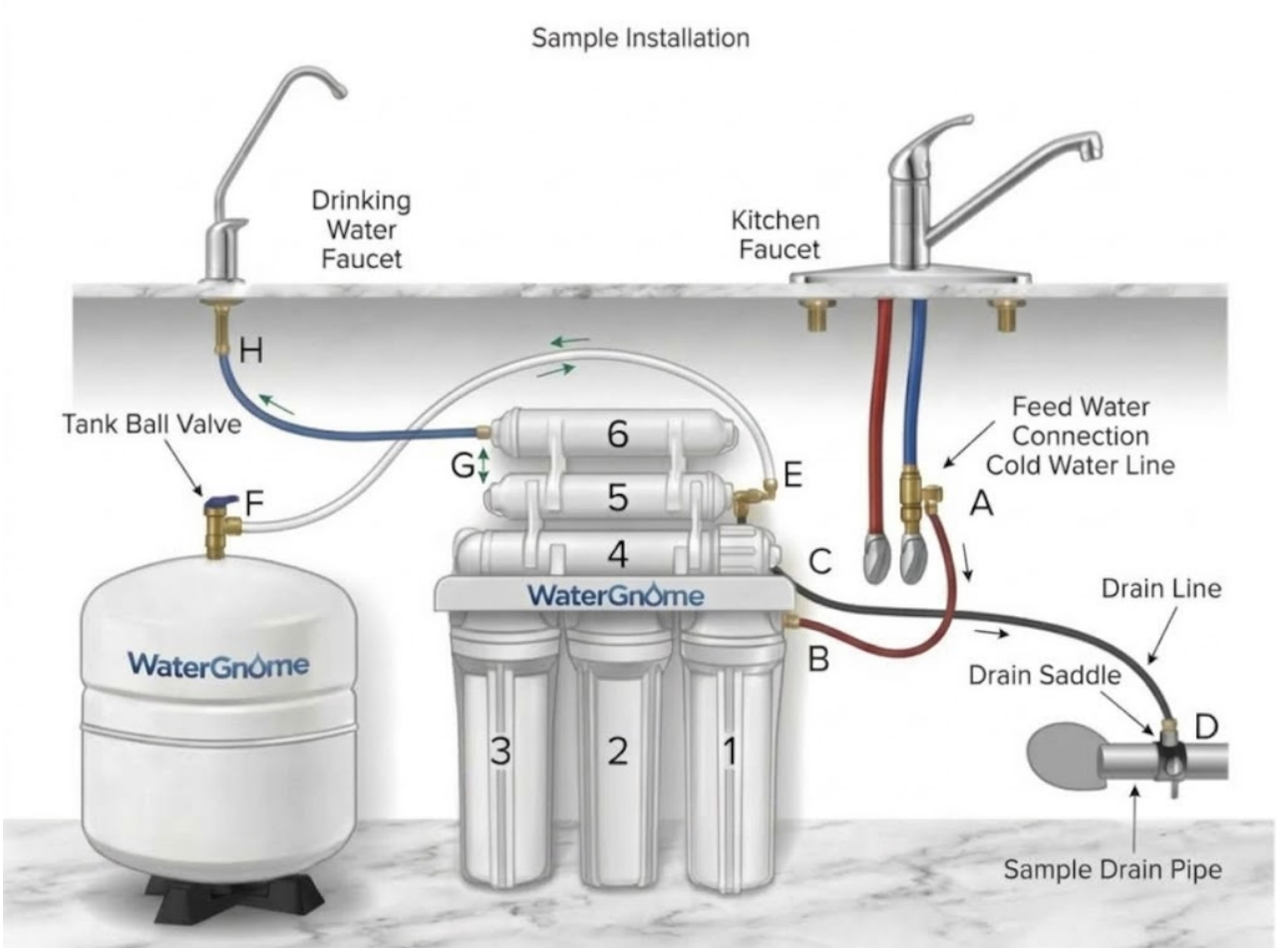
Use a ½" titanium drill bit. Use a center punch to create a starting indent
so the bit doesn't wander. Apply a drop of cutting oil and drill at medium-low speed.

Granite, Quartz, or Marble:

Use a ½" diamond core hole saw. Never use a hammer drill setting.
Create a small dam around the hole area with plumber's putty and add water to keep the bit cool. Start the drill at a 45-degree angle at a low speed to score a starting groove, then slowly bring the drill vertical. Apply light, even pressure.

Porcelain/Cast Iron:

Porcelain chips easily. Use a ½" diamond or tile bit. Keep the area wet with
water, start at the slowest speed, and press firmly until you break through the glazed surface.



A → **B**

Source water from Feed Water Adapter — **Source water to water inlet next to stage 1**

C → **D**

Waste water from Flow Restrictor — **Waste water to Drain Saddle**

E → **F**

RO water from Tee on the Inline — **RO water to Storage Tank**

G → **H**

RO water from final filter stage — **RO water to Drinking Faucet**

Installation Steps

Note: Steps 1 – 7 are independent, and can be performed in any order.



Step 1: Install Feed Water Adapter (AFW)

1.1 Turn off the Cold Water Line via the Cold Water Shutoff Valve (CWSV) under the sink. Open the kitchen faucet to release pressure and make sure water has stopped before proceeding to the next step. Get a towel or bucket to catch water spill. Disconnect Kitchen Faucet Connector (KFC) pipe from CWSV.

1.2 Check Oring inside AFW female end, and twist it onto CWSV. Tighten it up using wrench or pliers.

1.3 Twist KFC onto the male end of AFW. Turn the handle of AFW to cross (OFF) position.
Turn on CWSV slowly, check and fix any leaks.

1.4 Connect the 1/4" ***RED*** tubing to AFW.



Step 2: Install Drinking Water Faucet

2.1 If your kitchen sink does not have an existing ½" hole, you will have to drill one.
(Refer to How to drill a Hole on Sink or Countertop). Wipe clean and dry the area.

2.2 Slip the front plate on the faucet stem, followed by the rubber washer. Insert
the faucet stem into the hole on countertop

2.3 Under the sink, slip on the back rubber washer, tighten the nut with plastic wing.

2.4 Screw the tubing adapter on to the faucet stem. Insert the ***BLUE*** tubing 1/2 inch deep into the Pushin fitting.

Step 3: Install Drain Saddle

3.1 Choose a spot on the drain pipe that is convenient for installing the drain saddle and tubing. It is recommended that you install the pipe horizontally to minimize dripping sounds. Position as far away from the garbage disposal as possible and after the P-trap.

3.2 Drill a 1 /4" hole on the drain pipe; paste the black sticky pad around the hole. Do not drill all the way through—stop after piercing the first wall of the pipe.

3.3 Cut the ***BLACK*** tubing end a bit to make a 45 degree angle. Slip the plastic nut and front plate on the tubing. Insert the tubing into the 1 / 4" hole on the drain pipe, install the back plate and tighten the two screws with hex nuts while the tubing remains in the hole.

3.4 Tighten the nut securing the black drain line to the Drain Saddle by hand. Pull the tubing to check if it is secure. Do not over tighten.



Step 4: Install Storage Tank Shutoff Valve (TSV)

4.1 The storage tank may be placed in either the vertical or horizontal position without affecting system performance. Wrap 4-5 turns of Teflon tape clockwise (looking from top) onto the metal thread at the top
of the tank.

4.2 Screw (clockwise) the Tank Shutoff Valve on and tighten up by hand. Do not over tighten.

4.3 Connect the ***WHITE*** tubing onto the QuickFitting of TSV.

Step 5: Tubing Hook up

5.1 See the Sample Installation, note connection points: A-B, C-D, E-F, and G-H.

5.2 Connect the ***RED*** tubing Feed Water Adapter (AFW) (point A) to the elbow fitting (point B).

5.3 Connect the Flow Restrictor (point C) to the Drain Saddle (point D) with the ***BLACK*** tubing.

5.4 On the right side of the Post Carbon Filter (5th stage), connect the Tee-fitting (point E) and the Tank Valve (point F) with the ***WHITE*** tubing.

5.5 At left end of the final filter stage (post carbon/alkaline), insert the ***BLUE*** tubing (links to RO faucet) into the elbow fitting.

5.6 Connect the other end of the ***BLUE*** tubing to the RO faucet.

5.7 You may hang the system using two 10 x 11/4 Phillips Flat Wood Screws. This will prevent tipping and make replacing filter cartridges easier.



*Step 6: System Start Up (model specific substeps are marked with *)*

If your model has a UV stage, do not plug in power until the system is fully flushed

6.1 Make sure that all tubings are not kinked. **Turn Tank Shutoff Valve OFF (cross)**.Prepare a bath towel to catch any water leak.

6.2 To avoid the residual carbon in the first three stages from getting into the RO membrane, the tubing to the inlet of the RO membrane housing cap was left disconnected. Flush the first three stages into a bucket until the water turns clear, and reconnect the tubing to the RO membrane. (You may do this whenever you change the first three stages).

6.3 Turn on (inline) Feed Water Adapter valve (AFW), and then slowly turn on the Cold Water Supply Valve (CWSV) and check for leaks. The top 3 causes of leaks are 1) the tubing was not fully inserted into the quickconnect fitting. 2) the O-ring was not in place or kinked. 3) the Housing/Cap was not tightened up or off threads.

6.4 *Plug in booster pump power if your model has one.

6.5 Within 5 minutes, RO water should start dripping. Let it run for at least 10 minutes. This flushes the system except the tank. Water is black due to loose carbon from new carbon filters (step 6.2 could be taken to expedite the flush). It will turn clear with some air bubbles.

6.6 Shut off the RO Drinking Faucet. Turn on the Tank Shutoff Valve. Wait for the tank to be filled up. It may take 1.5 hours in warm summer or 3 hours in cold winter to fill up a 3.2 gallon tank with about 2.5 gallons holding capacity.

6.7 After two hours, turn on the RO Drinking Faucet to flush out all the water in the tank. DO NOT use the first tank of water. The water out of the faucet should be a much stronger stream since the water pressure was built up to 3540 psi when being filled up. When the water flow changes back to a trickle, it means the tank is empty.

6.8 *Plug in the UV power and observe if the RO faucet turns the UV on/off through the Flow Sensor Switch.

6.9 The reverse osmosis membrane is the key part for the effective reduction of total dissolved solids (TDS) and that product water shall be tested periodically to verify that the system is performing properly. If the TDS of the source water is 100ppm, the RO water should be less than 10ppm (Rejection rate >90%).

6.10 Check for leaks daily for the first two weeks after installation. Furthermore, a bucket can be put under the system in case of any leaks, and a Flood Alarm can be used together for better protection.

Congratulations!
You have successfully installed your

WaterGnome

Reverse Osmosis Water Filtration System!

Maintenance: Replacing the Vertical Filters: Stages 1, 2, and 3



1. Make sure that the O-ring is seated inside the groove on the top of the filter housing. Foodgrade silicon jelly may be used to help the O-ring stay in place and seal better.

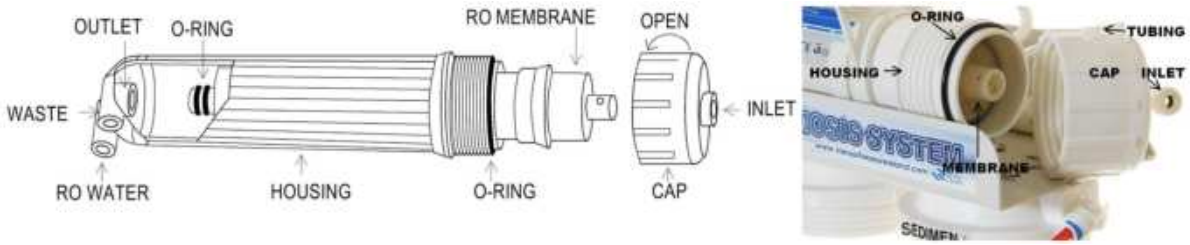
2. Note the direction sign on the sticker before removing the shrink wrap.

3. Rinse both CTO cartridges with tap water for 5 minutes or until water is clear.

4. When placing the filter cartridge into its housing, make sure it is centered and the knob protruding from the bottom of the housing fits in the central hole of the filter.

5. Screw the housing, with filters inserted, onto the housing caps. The cap also has a center knob which should be inserted into the center hole of the filter cartridge. Twist the housing on in a clockwise direction by hand, and then use a housing wrench to tighten it up for about 1/4 – 1/2 turn. Do not over tighten. This can cause leaks and make it difficult to unscrew the housing when replacing filters.

Maintenance: Replacing the Reverse Osmosis Membrane



1. Open the membrane housing screw cap. First, you will need to disconnect the white 1 / 4" tubing from the Inlet quickfitting on the membrane housing cap (refer to How to Use QuickFitting section), and then unscrew (counter clockwise) the cap. A thick rubber band can be slipped on the housing body for a stronger hand hold.

2. The RO membrane is preserved in a sealed bag with distilled water. Some models of membrane come with black caps on both ends, remove them. Follow the flow direction sign on the membrane, and firmly insert the membrane into the housing. The smaller end with two black O-rings should be inserted first until the back end is even with the housing opening.

3. Before twisting the housing cap back on, check that the O-ring is placed securely on the membrane housing (cap does NOT have O-ring). Hand tighten and then using a small plastic housing wrench tighten 1/4 – 1/2 turns, being careful not to over tighten.

WATERGNOME LIMITED WARRANTY

WATERGNOME warrants to the original purchaser that the original system will be free from defects in materials and workmanship for the life of the product, when properly installed, operated, and maintained according to WATERGNOME instructions. This warranty covers manufacturer-supplied parts only; labor, installation, removal, replacement, service, maintenance, and repair costs are excluded.

Exclusions

Membranes, filters, O-rings, seals, and other components subject to normal wear or routine replacement are not covered. This warranty also excludes damage or failure caused by improper installation or maintenance, misuse, abuse, tampering, unauthorized modification, improper parts or materials, scaling, fouling, or operating conditions outside the specifications below.

Operating Conditions:

The system must be used with potable water and maintained according to WATERGNOME® instructions. Feed-water pressure must be 40–80 PSI (minimum 30 PSI for systems with a built-in booster pump), temperature 40–100°F, chlorine ≤1.0 mg/L (ppm), TDS <750 mg/L (ppm), pH 4–8, turbidity <1.0 NTU, and SDI <5. Feed water must be free of iron, manganese, and hydrogen sulfide.

WATERGNOME does not guarantee system performance under changing or unknown water conditions and is not responsible for determining whether additional treatment or equipment is required for a particular water supply. Laboratory performance may differ from actual results.

This warranty does not cover damage caused by fire, accident, negligence, flood, acts of God, or other events beyond WATERGNOME's reasonable control. Failure to perform required maintenance or operation outside the specified conditions may void this warranty.

For warranty service, contact the original retailer or authorized WATERGNOME dealer and provide proof of purchase. If a covered defect is confirmed, WATERGNOME may, at its option, repair or replace the defective part.

LIMITATION OF LIABILITY:

To the fullest extent permitted by law, WATERGNOME is not liable for incidental, indirect, special, or consequential damages, including loss of time, revenue, property, or other related costs. Any implied warranties are limited to the extent permitted by applicable law. This warranty gives you specific legal rights, which may vary by state.

Warranty Registration

We provide a lifetime manufacturer warranty and lifetime tech support for all of our products. If you wish to return a product, it must be in original, unused condition. A 20% restocking fee will apply for all systems, and shipping is non refundable. To register your product for the warranty, go to www.watergnome.com and submit your warranty registration under the "WarrantyRegistration" tab.

We love to help our customers. If you have any questions or concerns about our products, please don't hesitate to call or email us. We will do everything that we can to make your purchase a 5 star experience.