THANK YOU FOR MAKING GE APPLIANCES A PART OF YOUR HOME.

Whether you grew up with GE Appliances, or this is your first, we’re happy to have you in the family.

We take pride in the craftsmanship, innovation and design that goes into every GE Appliances product, and we think you will too. Among other things, registration of your appliance ensures that we can deliver important product information and warranty details when you need them.

Register your GE appliance now online. Helpful websites and phone numbers are available in the Consumer Support section of this Owner’s Manual. You may also mail in the pre-printed registration card included in the packing material.
IMPORTANT SAFETY INFORMATION
READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

Read, understand, and follow all safety information contained in these instructions prior to installation and use of the GE Appliances Reverse Osmosis system. Retain these instructions for future reference.

Intended use:
The GE Appliances Reverse Osmosis system is intended for use in filtering potable water in Residential applications, and has not been evaluated for other uses. The system is typically installed at the point of use, and must be installed as specified in the installation instructions. Contact a plumbing professional if you are uncertain how to install.

SAFETY PRECAUTIONS
Be sure the water supply conforms with the Specification Guidelines. If the water supply conditions are unknown, contact your municipal water company or your local health department for a list of contaminants in your area and a list of laboratories certified by your state to analyze drinking water.

**WARNING**
To reduce the risk associated with choking:
- Do not allow children under 3 years of age to have access to small parts during the installation of this product.

**WARNING**
To reduce the risk associated with the ingestion of contaminants:
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

**WARNING**
To reduce the risk of physical injury due to hydropneumatic tank rupture:
- Do not install if water pressure exceeds 100 psi (689 kPa). If your water pressure exceeds 80 psi (552 kPa), you should install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- Do not install where water hammer conditions may occur. If water hammer conditions exist you should install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- Where a backflow prevention device is installed on a water system, a device for controlling pressure due to thermal expansion should be installed.

**WARNING**
Chemical Burn Hazard:
- Keep batteries away from children. This product contains a lithium button cell battery. If a new or used lithium button cell battery is swallowed or enters the body, it can cause severe internal burns and can lead to death in as little as 2 hours. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the battery and keep it away from children. Properly dispose of used batteries, keeping them away from children.

To reduce the risk associated with ingesting of water contaminated with sanitizer:
- After installation, sanitizer MUST be flushed from the system before first use as directed within the installation instructions.

This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5) or arsenate) at concentrations of 0.050 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of the Performance Data Sheet for further information.

This reverse osmosis system contains a replaceable component critical to efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.
IMPORTANT SAFETY INFORMATION
READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

SAFETY PRECAUTIONS (continued)

This system has a lithium battery containing perchlorate. Per California Regulation:
Perchlorate Material – Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Extended non-use of the Reverse Osmosis system:
■ If the system has not been used for one week or more, open the RO water faucet and allow the system to
drain. Close the RO water faucet and allow the system to regenerate the water supply.

Recommended installation is under the sink. However, the unit can be installed in a remote location, up to 20 feet
away from the sink.
• However, additional materials will be required. See parts list to obtain additional materials from GE Appliances.
• Locating the tank on a basement floor, with the faucet at a first floor sink may result in some loss of flow rate and
capacity (approximately 20%). Installing a second tank will improve this performance.

If Reverse Osmosis system is connected to a refrigerator icemaker, do not use copper tubing for the connection
between the Reverse Osmosis system and the refrigerator.

Sanitize upon installation of the Reverse Osmosis system and after servicing inner parts, including replacement of
prefilter, postfilter and Reverse Osmosis cartridge. It is important to have clean hands while handling inner parts of
the system. See the Sanitizing the System section.

This Reverse Osmosis system contains a replaceable treatment component critical for effective reduction of total
dissolved solids. This product water shall be tested periodically to verify that the system is performing satisfactorily.
See the The Water Test Kit section.

BE SURE TO FOLLOW ALL APPLICABLE STATE AND LOCAL CODES.

NOTICE: To reduce the risk associated with property damage due to water leakage:
■ Read and follow these instruction before
installation and use of this system.
■ Installation and use MUST comply with all state
and local plumbing codes.
■ Protect from freezing, remove filter cartridge when
temperatures are expected to drop below 40° F
(4.4° C).
■ Do not install systems in areas where ambient
temperatures may go above 110° F (43.3° C).
■ Do not install if water pressure exceeds 100 psi
(689 kPa). If your water pressure exceeds 80 psi
(552 kPa), you should install a pressure limiting
valve. Contact a plumbing professional if you are
uncertain how to check your water pressure.
■ Do not install where water hammer conditions may
occur. If water hammer conditions exist, you
should install a water hammer arrester. Contact a
plumbing professional if you are uncertain how to
check for this condition.
■ Where a backflow prevention device is installed on
a water system, a device for controlling pressure
due to thermal expansion should be installed.
■ Do not use a torch or other high temperature
sources near filter system, cartridges, plastic
fittings or plastic plumbing.
■ On plastic fittings, never use pipe sealant or pipe
dope. Use PTFE thread sealing tape only, as pipe
dope properties may deteriorate plastic.
■ Take care when using pliers or pipe wrenches to
tighten plastic fittings, as damage may occur if
over tightening occurs.
■ Do not install in direct sunlight or outdoors.
■ Locate the system in such a position as to prevent
it from being struck by other items used in the area
of installation.
■ Ensure that the location will support the weight of
the system when installed and full of water.
■ Ensure all tubing and fittings are secure and free
of leaks.
■ Do not install unit if any collets (parts 14 and 15 on
page 25) are missing. Contact 877.959.8688 if
collets are missing from any fittings to obtain
replacements.
■ Replace the disposable prefilter and postfilter
cartridges every 6 months, at the rated capacity, or
sooner if a noticeable reduction in flow rate occurs.
■ Replace the disposable RO cartridge every 24
months, or sooner if a noticeable reduction in
filtration efficiency occurs.
Specifications

Reverse Osmosis System
Models: GXRQ18NBN and GNRQ18NBN

Supply water pressure limits ........................................... 40-100 psi (280-689 kPa)
Supply water temperature limits ........................................... 40-100 °F (4-38 °C)
Maximum total dissolved solids (TDS) .................................. 2000 ppm
Maximum water hardness @ 6.9 pH ..................................... 10 gpg
Maximum iron, manganese, hydrogen sulfide .......................... 0
Chlorine in water supply (max. ppm) ................................... 2.0
Supply water pH limits (pH) ............................................. 4-10
Product (quality) water, 24 hours¹ ..................................... 14.76 gal. (55.9 liters)
Percent rejection of TDS, minimum (new membrane)¹ .................. 86.5
Automatic shutoff control ................................................ yes
Efficiency² .................................................................. 10.6 %
Recovery³ .................................................................. 21.2 %

This system conforms to NSF/ANSI 58 for the specific performance claims as verified and substantiated by test data.

¹ @ Feed water supply at 50 psi, 77°F, and 750 TDS. Quality water production, amount of waste water and percent rejection all vary with changes in pressure, temperature and total dissolved solids.
² Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.
³ Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

Non-potable Water Sources: Do not attempt to use this product to make safe drinking water from non-potable water sources. Do not use the system on microbiologically unsafe water, or water of unknown quality without an adequate disinfection before or after the system. This system is certified for cyst reduction and may be used on disinfected water that may contain filterable cysts.

Arsenic Reduction: This system shall only be used for arsenic reduction on chlorinated water supplies containing detectable residual free chlorine at the system inlet. Water systems using an inline chlorinator should provide a one minute chlorine contact time before the reverse osmosis system.

Nitrate/Nitrite Test Kit: This system is supplied with a nitrate/nitrite test kit. Product water should be monitored periodically according to the instructions provided with the test kit.

Installations In the Commonwealth of Massachusetts: The Commonwealth of Massachusetts requires installation be performed by a licensed plumber and do not permit the use of saddle valves. Plumbing code 248-CMR of the Commonwealth of Massachusetts must be followed in these cases.

Product Water Testing: The Reverse Osmosis system contains a replaceable treatment component critical for the effective reduction of total dissolved solids. Product water should be tested periodically to verify that the system is performing properly.

Replacement of the reverse osmosis component: 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 assure the same efficiency and contaminant performance.

Dimensions:
Using the Reverse Osmosis System

How the Reverse Osmosis System Works

Reverse Osmosis reduces Total Dissolved Solids (TDS) and organic matter from water by diffusing it through a special membrane (see Performance Data Sheet). The membrane separates minerals and impurities from the water and they are flushed to the drain. For the reduction of the claims specified, see Performance Data Sheet. High quality product water goes directly to the drinking water faucet or to the storage tank. The system makes a good supply of drinking water each day. How much it makes depends on the feed water supply pressure, temperature and quality.

The prefilter and postfilter are replaceable cartridges. The carbon prefilter reduces chlorine while also filtering sediments. The postfilter reduces any other undesirable tastes and odors before you use the water.

The system includes an electronic faucet assembly with a prefilter and postfilter change reminder. When six months have passed, a flashing light will remind you to change the two filters.

Description of the Reverse Osmosis System

Prefabilter - Water from the cold supply pipe is directed to the prefilter cartridge. The prefilter is a replaceable sediment cartridge containing activated carbon. The prefilter reduces chlorine taste and odor in the feed water because CHLORINE DESTROYS THE REVERSE OSMOSIS MEMBRANE. Filtered, clean, chlorine-reduced water flows from the prefilter to the Reverse Osmosis cartridge.

Reverse Osmosis Cartridge - The middle cartridge includes a tightly wound, special membrane. Water is forced through the cartridge where the membrane reduces the dissolved solids and organic matter. High quality product water exits the Reverse Osmosis cartridge and goes to the storage tank. Reject water, with the dissolved solids and organic matter, leaves the cartridge and is discharged to the drain through 1/4” tubing.

Storage Tank - The storage area holds up to 1-3/4 gallons of product water. A diaphragm inside the tank keeps water pressurized, when the tank is full, for fast flow to the faucet when drinking water is needed. When the tank is empty of water, the pressure at the air valve is 5 - 7 psi.

Postfilter - After leaving the storage tank, but before going to the system faucet, product water goes to the post filter cartridge. The postfilter is an enhanced replaceable sediment cartridge containing activated carbon designed to reduce select pharmaceuticals, select herbicides/pesticides, VOCs, BPA and PFOA/ PFOS as well as remaining tastes, odors, and sediments. Clean, high quality drinking water flows through the tubing and to the system faucet.

RO Product Water Faucet - The countertop faucet dispenses filtered drinking water when opened. It has a variable flow handle. To comply with plumbing codes, an air gap is built into the faucet drain water connection.

Faucet Electronics - Inside the faucet handle is a battery operated 6 month timer. The faucet LED will light blue for a few seconds whenever the faucet handle is operated. When 90% of the filter lifetime has elapsed, the LED will flash blue 3 times whenever the faucet handle is operated. It will flash red continuously when 100% (6 months) has elapsed, to indicate that the prefilter and postfilter cartridges must be changed.

Automatic Shutoff Assembly - To conserve water, the drinking water system has an automatic shutoff. When the storage tank has filled to capacity and the drinking water faucet is closed, pressure closes the shutoff. Water flow to the Reverse Osmosis cartridge is shut off until drinking water is used again, and pressure drops in the Reverse Osmosis system.

Check Valve - The check valve in the manifold assembly prevents a backward flow of product water from the storage tank. A backward flow could cause the Reverse Osmosis membrane to rupture.

Flow Control - The flow control regulates the flow of water through the Reverse Osmosis cartridge at the required rate to produce high quality water. The control is located in the elbow fitting where the red 1/4” drain line exits the manifold.
Using the Reverse Osmosis System

Water Flow Description
1. Water enters prefilter. Sand, silt and other sediments are reduced. Chlorine is also reduced.
2. Water leaves prefilter and proceeds to the Reverse Osmosis cartridge.
3. Water enters the Reverse Osmosis membrane. Dissolved solids are reduced.
4. Processed water leaves the Reverse Osmosis membrane and flows to the storage tank.
5. Drain water with dissolved solids leaves the Reverse Osmosis membrane and flows to the drain.
6. Faucet is activated.
7. Processed water leaves the storage tank and flows to the postfilter, where it is filtered to ensure fresh taste.
8. Water flows to the Reverse Osmosis faucet.
Installation Instructions

Revise Osmosis Filtration System
Models GXRQ18NBN and GNRQ18NBN

Questions? Call 800.626.2005 or visit our Website at: GEAppliances.com/ge/service-and-support/contact.htm

WARNING
Read entire manual. Failure to follow all guides and rules could cause personal injury or property damage.

- Check with your state and/or local public works department for plumbing codes. You must follow their guides as you install the Reverse Osmosis system.

NOTE: Failure to comply with these installation instructions will void the product warranty, and the installer will be responsible for any service, repair or damages caused thereby.

TOOLS AND MATERIALS REQUIRED FOR INSTALLATION
- Electric Drill and 1-3/8" Drill Bit (type as required) if mounting hole is needed for faucet
- Electric Drill and 3/8" Drill Bit (type as required) if installing the included drain adapter
- Two (2) Adjustable Wrenches
- Tape Measure
- Phillips and Flat Blade Screwdrivers
- Utility Knife
- PTFE Thread Sealing Tape
- If your main water line is a rigid pipe, you will require a compression fitting and possibly other plumbing hardware to complete the installation.

IMPORTANT: To avoid damaging the sink, consult a qualified plumber or installer for drilling procedures. Special drill bits may be needed for stone, porcelain or stainless steel.

BEFORE YOU BEGIN
Read these instructions completely and carefully.

IMPORTANT: Save these instructions for local inspector’s use.

IMPORTANT: Observe all governing codes and ordinances.

Note to Installer: Be sure to leave these instructions with the consumer.

Note to Consumer: Keep these instructions for future reference.

Proper installation is the responsibility of the installer.

Product failure due to improper installation is not covered under the warranty.

A shutoff valve must be available or added near the installation point.

CONTENTS INCLUDED WITH SYSTEM
- Reverse Osmosis Assembly and Tubing
- Product Literature (Owner’s Manual and Installation Instructions)
- Performance Data Sheet
- Water Supply Fitting
- Faucet Assembly with Electronic Timer and Tubing
- Storage Tank
- Tank Connector
- Drain Adapter

Items in Parts Bag

- Drain Adapter
- Water Supply Fitting
- Tank Connector
- Nitrate/Nitrite Test Kit
- Eye Dropper
Installation Instructions

THINGS TO CHECK BEFORE BEGINNING INSTALLATION

**FEED WATER**
The water supply to the Reverse Osmosis system must have the qualities listed in the specifications. Municipal water supplies most often will have these qualities. Well water may need conditioning; have the water tested by a water analysis laboratory and get their recommendations for treatment.

**IMPORTANT:** For water with a hardness greater than 10 grains (at 6.9 pH) the use of a softener is recommended. Failure to install a softener will reduce the life of the Reverse Osmosis cartridge.

**RO DRAIN CONNECTION**
A suitable drain point and air gap (check your state and/or local codes) are needed for reject water from the Reverse Osmosis membrane cartridge.

**RO FAUCET**
The RO product water faucet installs on the sink or on the countertop next to the sink. It may be installed in an existing sink spray attachment hole, or a hole may be drilled. Space is required underneath for tubing to and from the faucet, and for securing the faucet in place. All three faucet tubes are supplied already connected at one end to the faucet.

**BASEMENT INSTALLATION**
If installing in a basement, leave enough tubing in place during installation to be able to move unit to floor for ease at servicing and making filter/membrane changes. Additional tubing and fittings required.

**NOTE:** See parts list on page 25 for optional parts that may be required for a basement installation.
Installation Instructions

PLAN THE INSTALLATION
The Reverse Osmosis System can be installed under a sink or in a remote location. Typical remote sites are a laundry room or utility room. Review the location options below and determine where to install the system.

UNDER THE SINK LOCATION
The Reverse Osmosis Filter Assembly and storage tank may be installed in a kitchen or bathroom sink cabinet.

REMOTE INTERIOR LOCATION
The Reverse Osmosis Filter Assembly and storage tank may also be installed in a remote interior location away from the Reverse Osmosis faucet. A nearby water source and drain point are required.

PREPARE FOR INSTALLATION
1. Before starting, close the hot and cold water shutoff valves.
2. Temporarily place tank and filter assembly into planned location. Check position of items and space required for installation. Ensure tubes may be routed without kinking.
3. Remove tank and filter from planned location and set aside.

Typical Under Sink Installation
Installation items included in parts bag.

Typical Remote Installation
Additional parts required.
A. PREFERRED INSTALLATION

A typical connection using the included water supply fitting is shown in the illustration below.

1. Close the cold water shutoff valve and open the faucets to relieve pressure and drain water from the sink cold water pipe.

2. Disconnect the existing cold water line from the water shutoff valve.

3. Make sure that the water supply fitting’s gasket is inside the female threaded portion of the fitting.

4. Install the water supply fitting onto the cold water shutoff valve, where the existing cold water line was removed, and hand tighten. Be careful not to cross thread or overtighten.

5. Connect the existing cold water line to the male threaded portion of the water supply fitting and hand tighten. Be careful not to cross thread or overtighten.

B. OPTIONAL INSTALLATION

A typical connection using a compression type fitting (not included).

**NOTE:** Be sure to turn off the water supply and open a faucet to drain the pipe.

Complying with plumbing codes, install a fitting on the cold water pipe to adapt 1/4” OD tubing. A typical connection is shown in the illustration below.

**NOTE:** If threaded fittings are used, be sure to use pipe joint compound (metal fittings only) or thread sealing tape on outside threads.
**INSTALL DRAIN ADAPTER (Cont.)**

2. Using the hole through the drain fitting as a guide, mark the pipe where a 3/8" hole will be drilled, and remove the drain adapter from the pipe.

**NOTE:** Do not drill through the drain adapter’s Q.C. fitting, as this could damage the o-ring.

3. Drill a 3/8" dia. hole in the pipe and remove flash.

4. Clean the sink tailpiece to assure a leak-tight fit.

5. Place the halves of the drain fitting back onto the sink drain pipe. Use a pencil or similar pointed object to align the Q.C. fitting so that it is centered on the hole you drilled.

6. Assemble the nuts and screws, as shown in the illustration above, and tighten both sides equally to secure the drain adapter halves onto the pipe. Do not overtighten.

7. Do not connect black tubing to the Q.C. fitting at this time. It is done after the RO faucet is installed.
Installation Instructions

ALTERNATIVE DRAIN INSTALLATION (for a remote location)

INSTALL A DRAIN POINT AND AIR GAP (for a remote location)

Route the drain tubing to an existing drain in the house. A floor drain, laundry tub, standpipe, sump, etc. are suitable drain points. Be sure to provide a 1-1/2” air gap between the end of the hose and the drain point. This will prevent water from backing up into the system.

NOTE: Check your local plumbing codes.

To install a remote drain point, complete the following steps:

1. Locate the 1/4” red tube and determine whether it is long enough to reach from the Reverse Osmosis assembly to the drain point.

2. If longer tubing is required, see parts list in back of manual and replace the red tube with an adequate length of 1/4” tubing.

3. Cut one end of the drain tube square.

4. Insert this tube all the way into the red collet fitting on the Reverse Osmosis filter assembly. See illustration on page 17.

5. Pull on the tubing to be sure it is held firmly in the fitting.

NOTE: A flow control insert is located inside the elbow fitting that the drain tube connects to. Leave this fitting in place.

6. Route the tubing to the drain point and secure at the end with a bracket (not included). Provide a 1-1/2” air gap between the end of the tube and the drain.
Installation Instructions

STORAGE TANK AND FAUCET

INSTALL THE FAUCET (Cont.)
1. If drilling is needed, drill a 1-3/8" diameter hole in the mounting surface. Be sure to use the proper procedure for drilling stone, porcelain or stainless steel. Special drill bits may be needed. Consult a qualified plumber.

2. Unscrew the plastic wing nut from the RO faucet’s threaded stud. Slide this wing nut and the adjacent metal washer off the tubing ends and set them aside to reinstall in step 4, below.

NOTE: Be sure the black rubber gasket and metal base ring remain in place on the faucet stud.

3. Work tubing and the faucet stud down into the mounting hole. Be sure that the faucet body seats squarely into the base ring, and that the black rubber gasket sits flat against the sink or countertop.

4. On the underside of the sink or countertop, slide the metal washer and wing nut (removed in step 2) back over the tubing ends and onto the stud. With the washer in place between the countertop and wing nut, tighten the wing nut securely.

STORAGE TANK INSTALLATION
1. Apply thread sealing tape (2 wraps clockwise) to the threads on the nipple at the top of the tank.

2. Locate the included tank connector. Slowly tighten the tank connector onto the tank nipple 7-8 full turns, so as not to cross thread or overtighten.

3. Do not connect the tube at this time. This will occur later in the assembly.

4. Place the storage tank next to the Reverse Osmosis assembly. The tank can be placed upright or on its side.

INSTALL THE FAUCET
Select the location of the Reverse Osmosis product water faucet. Be sure there is room underneath and above the sink to make the needed connections. Options are:
- Use an existing sink top hole for the spray hose or soap dispenser (Must be between 1-1/4” and 1-1/2” in diameter)
- Drill a new hole in the sink top
- Drill a new hole in the countertop next to the sink

NOTE: Check to ensure the Reverse Osmosis faucet will mount flat against the mounting surface.

NOTE: Visually review the routing of the tubes from the Reverse Osmosis assembly to the faucet. Check to ensure there is adequate tube routing space between the faucet and Reverse Osmosis assembly.
Installation Instructions

FAUCET ELECTRONICS

Inside the faucet handle is a battery operated 6 month timer. On a new Reverse Osmosis system, the product water faucet is shipped with a battery in the holder. After the faucet has been installed, the thin plastic strip must be removed, as described below, to power up the 6 month timer.

POWER UP THE FAUCET TIMER

1. On the faucet handle, locate the battery cover. There should be a thin plastic strip that sticks out from the battery cover.

2. Grasp the plastic strip, pull it all the way out and discard it.

3. The LED on the faucet handle will briefly flash red, then blue, to indicate the 6 month timer is powered up.

The faucet LED will light blue for a few seconds whenever the faucet handle is operated. When 90% of the filter lifetime has elapsed, the LED will flash blue 3 times whenever the faucet handle is operated. It will flash red continuously when 100% (6 months) has elapsed, to indicate that the prefilter and postfilter cartridges must be changed.

Always change the battery, as shown on page 21, when replacing the prefilter/postfilter cartridges (every 6 months).
Installation Instructions

HOW TO CONNECT TUBES

The Reverse Osmosis system includes push-in fittings for quick tubing connection. Review the following instructions before connecting the tubes in the next step. Failure to follow these instructions may lead to future leaks.

CUT TUBES TO LENGTH

1. Use a sharp cutter or knife to cut the end of tubing. Always cut the tubing end square and smooth, with no nicks or rough spots.

   Tube
   | Push-in Fitting
   

NOTE: Tubing lengths should allow the RO assembly to be moved for servicing.

2. Inspect the tube up to 1” from the end to be sure there are no nicks, scratches or other rough spots. If needed, cut the tubing again.

CONNECT TUBES

1. Push tubing through collet, until it engages the o-ring. Continue pushing until the tube bottoms out against the back of the fitting. Do not stop pushing when the tube engages the o-ring. Failure to follow these instructions may lead to future leaks. When a 1/4” tube is fully engaged, 11/16” of the tube has entered the fitting. When a 3/8” tube is fully engaged, 3/4” of the tube has entered the fitting. Mark tube with a piece of tape or marker.

![Tube Partially Engaged](image)

![Tube Fully Engaged](image)

TO DISCONNECT TUBES (If necessary)

1. Push the collet inward with a finger tip.

2. Continue holding collet inward while pulling the tubing out.

MAKE TUBING CONNECTIONS

YELLOW TUBE
from Reverse Osmosis assembly to storage tank

1. Locate the 3/8” yellow tube and cut one end square. See above.

2. Insert all the way into the yellow collet fitting on the Reverse Osmosis assembly.

3. Route the other end of this tube to the fitting on top of the storage tank.

4. Cut tube square and to length.

5. Do not connect at this time. This will occur in the sanitizing step.

GREEN TUBE
from cold water supply pipe to Reverse Osmosis assembly

1. Locate the 1/4” green tube and cut one end square.

2. Connect to cold water supply fitting. See “Feed Water Supply” illustrations on page 11.

3. Route the other end of this tube to the green collet fitting on the Reverse Osmosis assembly.

4. Cut tube square and to length.

5. Insert all the way into the fitting.

6. Pull on the tube to be sure it is held firmly in the fitting.
Installation Instructions

MAKE TUBING CONNECTIONS (Cont.)

BLUE TUBE
from Reverse Osmosis faucet to Reverse Osmosis assembly
1. Locate the 3/8" blue tube attached to the faucet.
2. Route the loose end of this tube to the blue collet fitting on the Reverse Osmosis assembly.
3. Cut tube square and to length.
4. Insert all the way into the fitting.
5. Pull on the tube to be sure it is held firmly in the fitting.

BLACK TUBE
from Reverse Osmosis faucet to drain adapter
1. Locate the 3/8" black tube attached to the faucet.
2. The loose end needs to be attached to the quick connect fitting on the sink drain adapter.
3. Cut this tube as needed to route it as straight as possible, without loops, dips, or kinks.
4. Cut the end of the tube square.
5. Insert all the way into the fitting.
6. Pull on the tube to be sure it is held firmly in the fitting.

RED TUBE
from Reverse Osmosis faucet to Reverse Osmosis assembly
1. Locate the 1/4" red tube attached to the faucet.
2. Route the loose end of this tube to the red collet fitting on the Reverse Osmosis assembly.
3. Cut tube square and to length.
4. Insert all the way into the fitting.
5. Pull on the tube to be sure it is held firmly in the fitting.
SANITIZE THE SYSTEM

Sanitizing is recommended immediately after installation of the Reverse Osmosis system. It is also recommended after servicing inner parts. It is important that the person installing or servicing the system have clean hands while handling inner parts of the system.

Complete the following steps to sanitize the system.

1. Make sure that the water supply to the Reverse Osmosis system is off.
2. Open the Reverse Osmosis faucet. If the tank is not already empty, allow the water to empty.
3. Locate the included eyedropper and common household bleach (5.25%).
4. Add 3 ml. of bleach into open end of yellow tube. Handle bleach according to bleach manufacturer's recommendations.
5. Connect yellow tube to tank connector.
6. Sanitizing the system will be completed during the pressure test and purging steps on the following page.

NOTE: The bleach must be removed from the system before drinking the water. See purging instructions, following.

OPTIONAL SANITIZING KIT

The reusable sanitizing kit (P/N WS35X22001), not included) is recommended to easily and completely sanitize the Reverse Osmosis system annually.

The kit includes the following:

- Prefilter sanitization cartridge (contains no filtration media)
- Postfilter sanitization cartridge (contains no filtration media)
- RO sanitization cartridge (contains no RO membrane)
- Syringe, 1 oz.
- Complete instructions

Uses standard 5.25% household bleach (not included) to completely sanitize the Reverse Osmosis system.

To order, call toll-free GE Appliances Parts and Services at 877.959.8688.
TEST AND PURGE THE SYSTEM

PRESSURE TEST THE SYSTEM

NOTE: Complete the sanitizing procedure on the preceding page before pressure testing.

To pressure test the system, complete the following steps.

1. Open the water supply valve to the Reverse Osmosis system (see illustration below).
2. Purge air from the house plumbing by opening several house faucets. Close faucets when water runs smooth, with no spurting.
3. Pressure will start to build in the RO system. In about 2 hours check all fittings and connections. Check for water leaks. Fix leaks if any are found. If problems exist, refer to the troubleshooting chart or call the toll free number below it.

NOTE: When the system is first pressurized, water may “spurt” from the faucet air gap hole until air is expelled from the RO system.

PURGE THE SYSTEM

To purge the system, complete the following steps.

1. Open the Reverse Osmosis faucet and let water flow through the system for a 24 hour period. Water flow will be a slow trickle at this time.

NOTE: Do not consume water from the RO system until purging is complete.
2. Close the Reverse Osmosis faucet after the 24 hour purging period is complete.
3. When the purging is finished, your Reverse Osmosis system is ready for use.

NOTE: As with all other water system applications, leaks may occur. Because the system pressure builds slowly, leaks may not be immediately apparent. Recheck for leaks 24 hours after purging the system is complete.

OPERATING FEATURES

Please review the following operating features before using the Reverse Osmosis system:

• Filtered water will not be available immediately. It may take several hours to fill the storage tank and create maximum flow from the Reverse Osmosis faucet.

• Water Pressure from the Reverse Osmosis faucet will be less than with a standard faucet.

• Water will run to the drain while the Reverse Osmosis system is producing water, even when water is not being drawn from the Reverse Osmosis faucet. A small quantity of water may be heard trickling to the drain at times when water is not being drawn from the faucet. This is normal. Water will automatically stop going to the drain when the storage tank is full.
**CARE AND CLEANING: Cartridge Maintenance and Replacement**

**PREFILTER / POSTFILTER CARTRIDGE LIFE**

**NOTE:** It is recommended to replace the battery, prefilter and postfilter cartridges at least every 6 months of product water use. Replace more often if they begin to plug with sediment.

The prefilter and postfilter are replaceable sediment cartridges with activated carbon in their composition. The prefilter and postfilter cartridges must be periodically replaced. This will protect the RO membrane from being destroyed by chlorine. It will also prevent the filters from plugging with sediment.

Slower output of product water may be noticed as the prefilter and postfilter build up with sediment. Replace the prefilter and postfilter cartridges when this occurs. Replace the faucet battery whenever you replace the cartridges.

**PREFILTER / POSTFILTER CARTRIDGE REPLACEMENT (every 6 months)**

Complete the following steps to replace the prefilter and postfilter cartridges.

1. Remove (turn counterclockwise) the prefilter cartridge from the manifold. Then remove the postfilter cartridge.

2. Discard the cartridges in a proper manner.

3. Install new cartridges in reverse order: postfilter first, then prefilter. Turn cartridges clockwise to reattach to the manifold. Do not overtighten.

4. Remove and replace the faucet timer battery. See next page for instructions.

5. Purge the Reverse Osmosis system. See previous page for instructions.

**REVERSE OSMOSIS MEMBRANE CARTRIDGE LIFE**

The Reverse Osmosis cartridge is a tightly wound special membrane. The membrane reduces the dissolved solids and organic matter. The life of the Reverse Osmosis membrane cartridge depends mostly on the pH and hardness of the supply water (see Specifications). Cartridge life is shorter with higher pH. For example, if supply water pH is from 6.8 to 7.7, the cartridge may last for well over one year. However, cartridge life may be as short as 6 months if the pH is as high as 8.5 to 10. Higher pH weakens the cartridge membrane and causes pinhole leaks. It is time to replace the Reverse Osmosis cartridge when the production rate and/or quality of product water drops. Product water may begin to taste different, indicating solids and organics are passing through the Reverse Osmosis membrane. See Reverse Osmosis cartridge replacement.

**REVERSE OSMOSIS MEMBRANE CARTRIDGE REPLACEMENT**

Complete the following steps to replace all cartridges when replacing the RO membrane.

1. Remove (turn counterclockwise) the prefilter cartridge from the manifold to stop flow to the Reverse Osmosis cartridge.

2. Remove the Reverse Osmosis cartridge.

3. Remove the postfilter cartridge.

4. Discard the cartridges in a proper manner.

5. Install new cartridges in reverse order: postfilter, Reverse Osmosis and then prefilter. Turn cartridges clockwise to reattach to the manifold. Do not overtighten.

6. Remove and replace the faucet timer battery. See next page for instructions.

7. Purge the Reverse Osmosis system. See previous page for instructions.

To obtain replacement filters, call toll-free GE Appliances Parts and Services at 877.959.8688, or visit the store where you purchased your reverse osmosis system.

<table>
<thead>
<tr>
<th>Prefilter/Postfilter Cartridge Replacement FQ18PN</th>
<th>Carbon Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Osmosis Cartridge Replacement FQ18MN</td>
<td>Thin Film Polyamide</td>
</tr>
</tbody>
</table>

**THE WATER TEST KIT**

To obtain an independent laboratory water test kit, please call Legend Technical Services at 1.800.949.8220 and leave your contact details. They will contact you to find out what water tests you are interested in, and inform you of the cost of the testing. You will then receive a kit that will include all necessary tests to properly indicate the performance level of your system. Product water should be tested a minimum of every six months.

**NOTE:** When the TDS reduction of the system falls below 75%, it is time to replace the reverse osmosis cartridge in addition to the prefilter and postfilter.
**WARNING** Chemical Burn Hazard:

- Keep batteries away from children. This product contains a lithium button cell battery. If a new or used lithium button cell battery is swallowed or enters the body, it can cause severe internal burns and can lead to death in as little as 2 hours. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the battery and keep it away from children. Properly dispose of used batteries, keeping them away from children.

A new battery is included with the replacement prefilt er / postfilter cartridge kit. Always change the battery, as shown below, when replacing the prefilt er / postfilter cartridges (every 6 months).

1. Locate the battery holder cover on the RO product water faucet's handle.

2. Grip the cover by the gaps at each side, and firmly pull it all the way out of the faucet. A screwdriver may be used to pry up the cover, but be careful not to scratch or nick the finish.

3. Pull the old battery out of the holder and replace it with the new battery from the replacement prefilt er / postfilter cartridge kit (Lithium CR 2032 button battery or equivalent). Place battery into the holder with the positive (+) side facing up, or away from the faucet's base.

4. Slide the battery holder back into the opening in the faucet's handle, making sure it is oriented correctly (it will not fit if upside-down). Push it all the way in until the cover is flush.

5. When the battery is installed, the faucet LED will briefly flash red then blue. The timer begins its 6 month countdown. Whenever the faucet handle is operated, the blue LED will light for a few seconds. The LED will not light if the battery was placed into the holder upside-down.
DRAIN FLOW CONTROL

The flow control is required for proper operation of the Reverse Osmosis system. See illustration below. The flow control, located inside the push-in elbow fitting on the drain port of the Reverse Osmosis assembly, keeps water flowing through the membrane at the required rate. This ensures that the system produces the best quality product water.

Periodically check the flow control to be sure the small hole through it is clean and unrestricted.

If the flow control requires service, review the exploded view above. Assemble and disassemble as shown. If the flow control remains in the manifold when the push-in elbow fitting is removed, it will be necessary to remove the drain port's collet and o-ring, as shown in the next section, to retrieve it.

ASSEMBLING COLLET AND O-RING

1. Remove the collet and o-ring from the fitting with a small screwdriver. Do not scratch the internal walls of the fitting port.

2. Clean collet port, lubricate with silicone-based lubricant, and insert the o-ring seal into the bottom of the port.

3. Push the collet inward until it locks in place.
# Troubleshooting Tips... Before you call for service

Save time and money! Review the following chart first and you may not need to call for service.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>What To Do</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water has air bubbles and is cloudy</td>
<td>Air in system after installation.</td>
<td>Will go away after it runs for a while.</td>
</tr>
<tr>
<td>Indicator light on faucet handle not working</td>
<td>Battery installed incorrectly.</td>
<td>Observe orientation on page 21 and install correctly.</td>
</tr>
<tr>
<td></td>
<td>Battery is dead.</td>
<td>Replace with new Lithium CR 2032, 3-volt battery.</td>
</tr>
<tr>
<td>Chlorine taste and/or odor in the Reverse Osmosis product water</td>
<td>The ppm of chlorine in your water supply exceeds maximum limits and has destroyed the Reverse Osmosis membrane.</td>
<td>If the water supply contains more than 2.0 ppm of chlorine, additional filtering of the water supply to the Reverse Osmosis is needed. Correct this condition before doing maintenance on the Reverse Osmosis system.</td>
</tr>
<tr>
<td></td>
<td>The prefilter is no longer reducing chlorine from the water supply.</td>
<td>Replace the Reverse Osmosis membrane cartridge, prefilter, postfilter and battery in the faucet handle.</td>
</tr>
<tr>
<td>Other taste and/or odor</td>
<td>High quality product water may have a different taste than what you're used to.</td>
<td>This is normal.</td>
</tr>
<tr>
<td></td>
<td>Low water usage.</td>
<td>Completely drain system and allow to refill.</td>
</tr>
<tr>
<td></td>
<td>Contamination in product water storage.</td>
<td>Use sanitizing procedure.</td>
</tr>
<tr>
<td></td>
<td>Prefilter and postfilter need to be changed.</td>
<td>Replace the prefilter and postfilter. Sanitize system.</td>
</tr>
<tr>
<td>Water leaking from faucet air gap hole</td>
<td>Drain side of faucet air gap (3/8&quot; tubing) plugged, restricted or incorrectly connected to the drain.</td>
<td>Inspect and eliminate restriction or plug. It is important that there are no dips, loops or low spots in the drain line from the faucet air gap to the drain pipe. Refer to Installation Instructions for proper drain connection. If drain line adapter was used as the drain point, periodic inspection/cleaning is recommended.</td>
</tr>
<tr>
<td>System makes product water slowly</td>
<td>This is normal.</td>
<td>Water flow rate will be lower than a regular faucet. It takes several hours to fill the tank.</td>
</tr>
<tr>
<td></td>
<td>Water supply to the Reverse Osmosis system not within specifications.</td>
<td>Increase water pressure, precondition the water, etc., as needed to conform before doing maintenance on the Reverse Osmosis system.</td>
</tr>
<tr>
<td></td>
<td>Prefilter cartridge plugged with sediments.</td>
<td>Replace the prefilter. If rate does not increase, replace the postfilter, Reverse Osmosis membrane cartridge and battery in the faucet handle.</td>
</tr>
<tr>
<td></td>
<td>Reverse Osmosis membrane plugged with sediments.</td>
<td>Replace Reverse Osmosis membrane cartridge and battery in the faucet handle.</td>
</tr>
<tr>
<td>No water</td>
<td>Water supply valve not turned on.</td>
<td>Turn water supply valve on. See illustration on page 19.</td>
</tr>
<tr>
<td></td>
<td>After filter change, tank is empty.</td>
<td>It takes several hours for RO system to provide enough water to fill the tank.</td>
</tr>
<tr>
<td>Leaks at fittings</td>
<td>Improperly installed.</td>
<td>Reinstall. See Installation Instructions.</td>
</tr>
<tr>
<td>Sounds you may hear</td>
<td>Sink drain, drain water from system.</td>
<td>This is normal.</td>
</tr>
<tr>
<td></td>
<td>Faucet air gap drain water flowing through the faucet air gap. This may be associated with high pressure water supply, generally 80 psi or greater.</td>
<td>Install a pressure regulator in the house water supply system to reduce the pressure below 80 psi.</td>
</tr>
</tbody>
</table>

If you are still having trouble, please visit www.GEAppliances.com/ge/service-and-support/contact.htm or call us at 800.626.2005.
<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>GE APPLIANCES PART NO.</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>WS19X21938</td>
<td>CABINET ASSEMBLY, LEFT HALF, RIGHT HALF, AND DRIP TRAY</td>
</tr>
<tr>
<td>0002</td>
<td>FQ18PN</td>
<td>PRE AND POST FILTER CARTRIDGE SET, INCLUDING BATTERY (NOT SHOWN)</td>
</tr>
<tr>
<td>0003</td>
<td>FQ18MN</td>
<td>RO CARTRIDGE</td>
</tr>
<tr>
<td>0004</td>
<td>WS19X21937</td>
<td>MANIFOLD ASSEMBLY (INCLUDES REF. NO. 0001 AND 0005 THRU 0009)</td>
</tr>
<tr>
<td>0005</td>
<td>WS03X21933</td>
<td>DIAPHRAGM KIT</td>
</tr>
<tr>
<td>0006</td>
<td>WS15X21935</td>
<td>CHECK VALVE KIT</td>
</tr>
<tr>
<td>0007</td>
<td>WS15X21932</td>
<td>AUTOMATIC SHUTOFF KIT</td>
</tr>
<tr>
<td>0008</td>
<td>WS15X21938</td>
<td>COLLET KIT, 1/4&quot; (SET OF 2)</td>
</tr>
<tr>
<td>0009</td>
<td>WS15X21989</td>
<td>COLLET KIT, 3/8&quot; (SET OF 2)</td>
</tr>
<tr>
<td>0010</td>
<td>WS02X21934</td>
<td>FLOW CONTROL KIT</td>
</tr>
<tr>
<td>0011</td>
<td>WS32X10012</td>
<td>STORAGE TANK</td>
</tr>
<tr>
<td>0012</td>
<td>WS22X21939</td>
<td>TANK CONNECTOR</td>
</tr>
<tr>
<td>0013</td>
<td>WS15X21941</td>
<td>FAUCET</td>
</tr>
<tr>
<td>0014</td>
<td>WS18X21940</td>
<td>DRAIN ADAPTER</td>
</tr>
<tr>
<td>0015</td>
<td>WS18X21936</td>
<td>WATER SUPPLY FITTING</td>
</tr>
<tr>
<td>0016</td>
<td>WS35X22001</td>
<td>SANITIZATION KIT (OPTIONAL - SEE SANITIZING INSTRUCTIONS FOR ILLUSTRATION)</td>
</tr>
<tr>
<td>0017</td>
<td>WS35X22002</td>
<td>AUXILIARY STORAGE TANK (OPTIONAL - INCLUDES REF. NO. 0011 AND FITTINGS TO PLUMB IN PARALLEL WITH ORIGINAL TANK)</td>
</tr>
<tr>
<td>0018</td>
<td>WS07X10006</td>
<td>TUBING, 1/4&quot; O.D. X 20 FEET LONG, WHITE (OPTIONAL FOR REMOTE INSTALLATION)</td>
</tr>
<tr>
<td>0019</td>
<td>WS07X10008</td>
<td>TUBING, 3/8&quot; O.D. X 20 FEET LONG, WHITE (OPTIONAL FOR REMOTE INSTALLATION)</td>
</tr>
<tr>
<td>0020</td>
<td>WS01X22003</td>
<td>DROPPER</td>
</tr>
<tr>
<td>0999</td>
<td>Manual Online</td>
<td>OWNER’S MANUAL &amp; INSTALLATION INSTRUCTIONS</td>
</tr>
</tbody>
</table>
GE Appliances Reverse Osmosis System Warranty

GEAppliances.com

All warranty service provided by our SmartWater™ Authorized Servicer Network. To schedule service, contact us toll free at 800.GE.CARES. Please have serial number and model number available when calling for service.

<table>
<thead>
<tr>
<th>For the period of</th>
<th>GE Appliances will replace</th>
</tr>
</thead>
<tbody>
<tr>
<td>One year from the date of the original purchase</td>
<td>Any part of the Reverse Osmosis Filtration System which fails due to a defect in materials or workmanship.</td>
</tr>
</tbody>
</table>

What GE Appliances will not cover

- Service trips to your home to teach you how to use the product.
- Improper installation, delivery, or maintenance.
- Failure of the product if it is abused, misused, modified, or used for other than the intended purpose or used commercially.
- Use of this product where water is microbiologically unsafe or of unknown quality, without adequate disinfection. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.
- Filter cartridges, membrane cartridges and batteries after 30 days from date of purchase.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.

EXCLUSION OF IMPLIED WARRANTIES

Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. If the product is located in an area where service by a GE Appliances Authorized Servicer is not available, you may be responsible for a trip charge or you may be required to bring the product to an Authorized GE Appliances Service location for service. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state’s Attorney General.

Warrantor: GE Appliances
Consumer Support

GE Appliances Website
Have a question or need assistance with your appliance? Try the GE Appliances Website 24 hours a day, any day of the year! You can also shop for more great GE Appliances products and take advantage of all our on-line support services designed for your convenience. In the US: GEAppliances.com

Register Your Appliance
Register your new appliance online at your convenience! Timely product registration will allow for enhanced communication and prompt service under the terms of your warranty, should the need arise. You may also mail in the pre-printed registration card included in the packing material. In the US: GEAppliances.com/register

Schedule Service
Expert GE Appliances repair service is only one step away from your door. Go online and schedule your service at your convenience any day of the year. In the US: GEAppliances.com/ge/service-and-support/service.htm or call 800.432.2737 during normal business hours.

Extended Warranties
Purchase a GE Appliances extended warranty and learn about special discounts that are available while your warranty is still in effect. You can purchase it online anytime. GE Appliances Services will still be there after your warranty expires. In the US: GEAppliances.com/ge/service-and-support/shop-for-extended-service-plans.htm or call 800.626.2224 during normal business hours.

Parts and Accessories
Individuals qualified to service their own appliances can have parts or accessories sent directly to their homes (VISA, MasterCard and Discover cards are accepted). Order online today 24 hours every day. In the US: GEAppliances.com or call 877.959.8688 during normal business hours.

Instructions contained in this manual cover procedures to be performed by any user. Other servicing generally should be referred to qualified service personnel. Caution must be exercised, since improper servicing may cause unsafe operation.

Contact Us
If you are not satisfied with the service you receive from GE Appliances, contact us on our Website with all the details including your phone number, or write to:

In the US: General Manager, Customer Relations | GE Appliances, Appliance Park | Louisville, KY 40225
GEAppliances.com/ge/service-and-support/contact.htm