

3M™ Water Filtration Products

Reverse Osmosis Cartridge Change-out Instructions

FOR ScaleGard™ HP Reverse Osmosis System

⚠ 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.**

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.

To reduce the risk of physical injury:

- Depressurize system as shown in manual prior to cartridge removal.

To reduce the risk of injury associated with household bleach:

- **Read and follow** manufacturer's directions and cautions.
- **Keep out of the reach of children.**
- **DO NOT** intermix with other chemicals.

To reduce the risk associated with ingestion of water contaminated with sanitizer:

- After installation, sanitizers **must** be flushed from the system before first use as directed within the installation instructions (dilute bleach solution).

CAUTION

To reduce the risk associated with property damage due to water leakage:

- **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).
- The RO cartridge **MUST** be replaced every twenty four (24) months, or sooner if a noticeable increase in TDS occurs.
- The disposable filter cartridges **MUST** be replaced every six (6) months, at the rated capacity or sooner if a noticeable reduction in flow rate occurs.

IMPORTANT NOTE:

The RO cartridges have green labels and will only fit into the head on the right side of the manifold (head has a green 3M label).

Shut-Off procedure:

HFRO 500 Cartridges will need to be changed at least every twenty four (24) months. HF90-CL-RO cartridge will need to be changed every six (6) months.

1. Unplug system from the wall outlet, which will shut off feedwater to RO system.
2. Open Pre-filter sample valve until flow stops and pressure gauge reaches 0 psi to relieve pressure.

HF90-CL-RO Cartridge (blue label) Replacement:

1. Push and hold yellow tab to release cartridge locking mechanism while simultaneously rotating cartridge to the left.
2. Using both hands and holding the cartridge from the bottom, rotate the cartridge a quarter turn to the left and gently pull down.
NOTE: A small amount of water will drain from manifold as cartridge is removed.
3. Remove sanitary cap from new cartridge. Install with a quarter turn to the right until cartridge come to a complete stop.
NOTE: Cartridges are keyed to fit in proper location only.

HFRO 500 Cartridge (green label) Replacement:

1. Take out reject tubing by pushing in the collet and pulling out the tubing. (See figure on reverse).
2. Push and hold yellow tab to release cartridge locking mechanism while simultaneously rotating cartridge to the left.
3. Using both hands and holding the cartridge from the bottom, rotate the cartridge a quarter turn to the left and gently pull down.
NOTE: A small amount of water will drain from manifold as cartridge is removed.
4. Remove sanitary cap from new cartridge. Install with a quarter turn to the right until cartridge comes to a complete stop.
NOTE: Cartridges are keyed to fit in proper location only.
5. Place new flow control in reject tubing (supplied with cartridge).
6. Connect reject tubing to cartridge.

System Start Up

1. Turn ON the feedwater supply by plugging system into electrical outlet.
2. Press reset button on top of electrical enclosure (see Figure 5).
3. Open Pre-filter valve sample valve to vent air from system and flush for five (5) minutes.
4. Close sample valve.
5. **Sanitize the Storage Tank and Filtration System as per instructions below**

Sanitizing the storage tank generally requires:

- Common household bleach (5.25% non-scented) or sanitizing agent
 - Eye dropper or plastic oral syringe
- a.) Disconnect the 1/2" line from marked "Tank Outlet" to pressure tank.
 - b.) Insert 1 tablespoon of bleach or sanitizing agent into 1/2" line to pressure tank.
 - c.) Reconnect the 1/2" line to pressure tank.
 - d.) Turn ON the feedwater supply by plugging system into electrical outlet.
 - e.) Wait 4-5 hours.
 - f.) Open pressure tank sample valve and empty tank to drain.
 - g.) Sanitizing is now complete.
 - h.) If there is any residual chlorine/bleach taste in the next tank full, drain tank completely a second time.
6. Allow tank to fill again.
System is now ready for use.

Figure 1 (Reset Button)

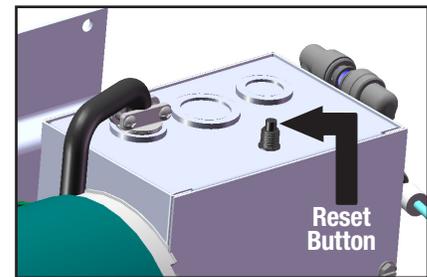
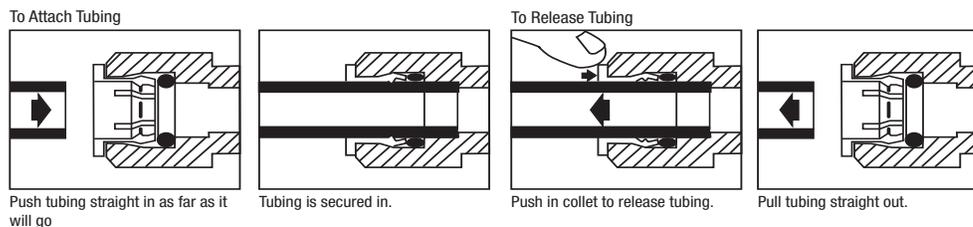


Figure 6 (How to Use "Push-in" Connectors)

This product is outfitted with a user friendly 'Push In' connector at the vent valve. Proper use of the connectors is shown in the figure below. It is most important that the tubing selected for use with these connectors be of high quality, exact size and roundness, and with no surface nicks or scratches. If it is necessary to cut the tubing, use a plastic tubing cutter or sharp razor knife. Make a clean square cut. Should a leak occur at a "Push-In" connector, the cause is usually a problem with the tubing.

To Fix:

1. Relieve pressure
2. Release tubing
3. Cut off at least 1/4" from end
4. Reattach tubing
5. Confirm connection is leak free



Limited Warranty

3M Purification Inc. warrants this disposable filter cartridge or membrane is warranted from defects in material and manufacture for a period of one (1) year from the date of purchase. This warranty does not cover failures resulting from abuse, misuse, alteration or damage not caused by 3M Purification Inc. or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and water consumption. **3M PURIFICATION INC. MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE.** If the Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc. will replace the Product or refund your Product purchase price. This warranty does not cover labor. The remedy stated in this paragraph is Customer's sole remedy and 3M's exclusive obligation.

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state, or country to country. For any warranty questions, please call (866) 990-9785 or mail your request to: Warranty Claims, 3M Purification Inc., 400 Research Parkway, Meriden, CT 06450. Proof of purchase (original sales receipt) must accompany the warranty claim, along with a complete description of the Product, model number and alleged defect.

Limitation of Liability

3M Purification Inc. will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.



3M Purification Inc.
400 Research Parkway
Meriden, CT 06450, U.S.A.
Tel (866) 990-9785
(203) 237-5541
Fax (203) 238-8977
www.cunofoodservice.com
www.3Mpurification.com

3M is a trademark of 3M Company.
ScaleGard is a trademark of 3M Company.
© 2012 3M Company. All rights reserved.
Please recycle. Printed in U.S.A.
INSTR4401 1012