

## How To Install, Operate and Maintain Your 475QC Filter System



**INSTALLERS: PLEASE READ ALL INSTRUCTIONS BEFORE INSTALLING AND USING THIS SYSTEM.**

**IT IS RECOMMENDED TO WAIT UNTIL THE ENTIRE SYSTEM IS PRESSURIZED AND RE-CHECK FOR ANY LEAKS BEFORE LEAVING INSTALLATION SITE.**

**IT IS NORMAL FOR SOME BLACK CARBON FINES TO APPEAR IN THE WATER WHEN FLUSHING FOR THE FIRST TIME. THE FIRST 2-3 GALLONS OF FILTERED WATER SHOULD NOT BE USED.**

## Table of Contents

	<b>PAGE</b>
<b>How Your System Works</b>	<b>2</b>
<b>Before You Start</b>	<b>3</b>
<b>Tools Needed</b>	<b>3</b>
<b>System Location</b>	<b>3</b>
<b>Installing the Filters</b>	<b>4</b>
<b>Installing the Faucet</b>	<b>4</b>
<b>Installing the Self-Piercing Inlet Saddle Valve</b>	<b>5</b>
<b>Installing the Unit</b>	<b>5</b>
<b>Installing Tubing Into Fittings</b>	<b>5</b>
<b>Installing Tubing Connections</b>	<b>6</b>
<b>Flow Diagram</b>	<b>6</b>
<b>Guarantee</b>	<b>8</b>

## How Your System Works

For best results it is recommended to install the filter on a COLD raw water (non-softened) water supply.

The 475 Pro Series systems uses up to three stages of treatment to filter your water:

**Stage 1** - SED-10 to remove sand, dirt, sediment

**Stage 2** - COC-10 / GAC-10 to remove chlorine, taste & odors, very fine particulates

**Stage 3** - UF-10 to reduce lead, VOC, and fine particles down to 0.2 micron

The system is compact and can be installed under the sink or another convenient place close to the faucet. The closer the proximity to the faucet the better the system flow rate.

### Recommended Filter Change Schedule

Your filters require changing on a regular basis. Instructions to change them are on page 8. The schedule below is the minimum recommendation. Depending on your water conditions the filters may need to be changed more often.

<b>Disposable Filters</b>	<b>Change Schedule</b>
Sediment (SED-10)	Every 12 months
Carbon (COC-10)	Every 12 months
Carbon (GAC-10)	Every 12 months
Ultra-Filter	Every 12 months

## Before You Start

- Your system contains filters which must be replaced periodically for proper operation. (Refer to Filter Change Schedule on page 8.)
- Read all steps and guides carefully before installing and using your RO system. Follow all steps exactly to correctly install.
- The system is designed to be used on potable water supplies only. If water is non-potable, additional pre-treatment will be required.
- Do not use for the treatment of water that is visually contaminated (cloudy) or has an obvious contamination source, such as contamination by raw sewage.
- All plumbing should be done in accordance with local codes and requirements.
- This system works on water pressures of 20 psi (minimum) to 100 psi (maximum). If your house water pressure is over the maximum, install a pressure reducing valve in the water supply line to the filter system.
- Do not install the system outside, or in extreme hot or cold temperatures. Temperature of the water supply to the system must be between 40°F and 100°F. Do not install on hot water.

## Tools Needed

The following tools may be necessary, depending on the particular installation.

- 3/8" variable speed electric drill;
- 1/8", 1/4", 1/2" bits
- Center punch and hammer
- Phillips head and flat blade screw-drivers
- Adjustable wrench
- Teflon tape
- Plastic tube cutter

## System Location

Your Filter system may be installed under the sink, in a basement, or other location depending on available space. It is recommended the system be installed in as close a proximity to the faucet to ensure optimal system flow rate. If you have a water dispenser and or ice maker in your fridge, your Filter system can be installed to provide the feed water for these features but you should consult your fridge owners manual for further information.

Guidelines for component placement are as follows:

**Faucet** should be placed near the sink where drinking/cooking water is normally required. A 2" flat surface is required to mount the faucet if an existing hole for a second faucet is not available. The thickness of the mounting surface should not exceed 1-1/4"

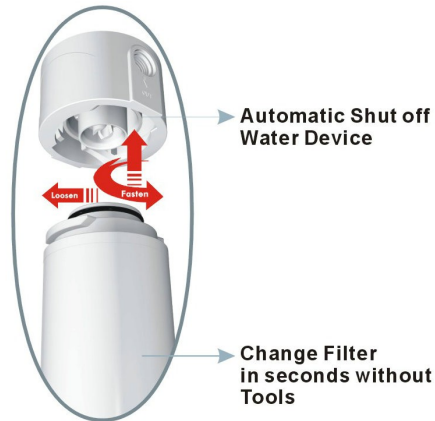
**Filter unit** may be mounted on either side of the sink, in a cabinet or heated basement, with nearby access to a potable cold line.

**Feed water connection** is accomplished with a feed water adaptor or self-piercing inlet saddle valve. Locate this assembly as close to the Filter unit as possible. Connect to a potable, cold water supply line only.

## Installing the Filters

To install the filter simply push it up inside the cap and turn clock wise until the arrow aligns with the center of the cap. To remove the filter reverse the procedure.

The filter head contains an Automatic Shut-off Device. This enables the filters to be changed without shutting the inlet water off. A small amount of water may leak out during the installation or removal.



### Note:

It is a good idea to be aware of where the inlet water valve is located so that it can easily be turned off if any unforeseen problems are encountered.

## Installing the Faucet

If the sink has a sprayer it may be disconnected for faucet installation. A pipe cap or plug will be necessary to seal the sprayer connection.

The faucet should be positioned so it empties into the sink and the spout swivels freely for convenience. If sink has a hole that can accommodate the faucet, no drilling is required. Proceed with mounting the faucet.

### Porcelain, Enamel, Ceramic on Metal or Cast Iron Sinks

For porcelain/enamel sinks marble or granite counter tops refer to Manufacturer/Supplier for proper drilling instructions.

### Installation procedures for stainless steel sinks

#### Recommended tools:

- Center punch
- Variable speed drill
- High speed drill bits
- Protective gloves & eye protectors

To make the faucet mounting hole (if sprayer or second hole is not used), check below to make sure the drill does not interfere with anything below the sink. Center punch a small indent at the desired faucet location. (2" flat surface is required, not exceeding 1-1/4" in thickness). Drill the 1/8" pilot hole. Drill the 1/2" hole for the faucet shank to fit through. Clean up sharp edges.

### Mounting the Faucet

1. Disassemble hardware from the threaded nipple, except for chrome base plates and rubber washers.
2. Feed the threaded nipple through sink or counter mounting hole and orient the faucet. From below sink or counter, assemble the flat washer and hex nut on threaded nipple and tighten by hand. After checking faucet orientation, tighten with a wrench until secure.

## Installing the Self-Piercing Inlet Saddle Valve



Figure 2. Self-Piercing Inlet Saddle Valve

The self-piercing saddle valve is designed for use with 3/8" to 1/2" OD soft copper supply tubing.

1. Turn off cold water valve from under sink or main water line valve for whole house.
2. Before installing self-piercing valve, make sure piercing lance does not protrude beyond rubber gasket.
3. Assemble saddle valve on copper tubing.
4. Tighten screw to fasten saddle valve to copper tubing.
5. Turn handle clockwise to pierce soft copper tube until valve is firmly seated. (Valve is closed in this position).
6. Turn on water supply to pressure cold water line and check for leaks.

## Installing the Unit

When installed under a sink the unit is normally mounted to the right or left sink cabinet sidewall. It is suggested to locate the system where it can be easily accessed or even removed off the hanging screws and pulled back out from the sink to change the filters.

1. Locate the unit in the desired position. Make sure it is at least 3" off the floor. Level it and mark the location of mounting screws.
2. Install the screws. Leave 1/4" of the screw head out from the wall.
3. Install the mounting bracket slots over the screws and hang the unit.

**NOTE: THE UNIT MUST BE INSTALLED BY HANGING THE BRACKET ON THE WALL SO THAT THERE IS NO WEIGHT ON THE FILTERS. THE SYSTEM IS NOT DESIGNED OR INTENDED TO SIT ON THE FLOOR WITH THE WEIGHT SUPPORTED BY THE REPLACEABLE FILTER CARTRIDGES.**

## Installing Tubing Into Fittings

- Step 1** Cut the tube square and remove burrs and sharp edges. Ensure that the outside diameter is free from score marks. For soft or thin walled plastic tubing we recommend the use of a tube insert.
- Step 2** Push the tube into the fitting and up to the tube stop
- Step 3** Pull on the tube to check that it is secure. Test the system before use.



## Installing Tubing Connections

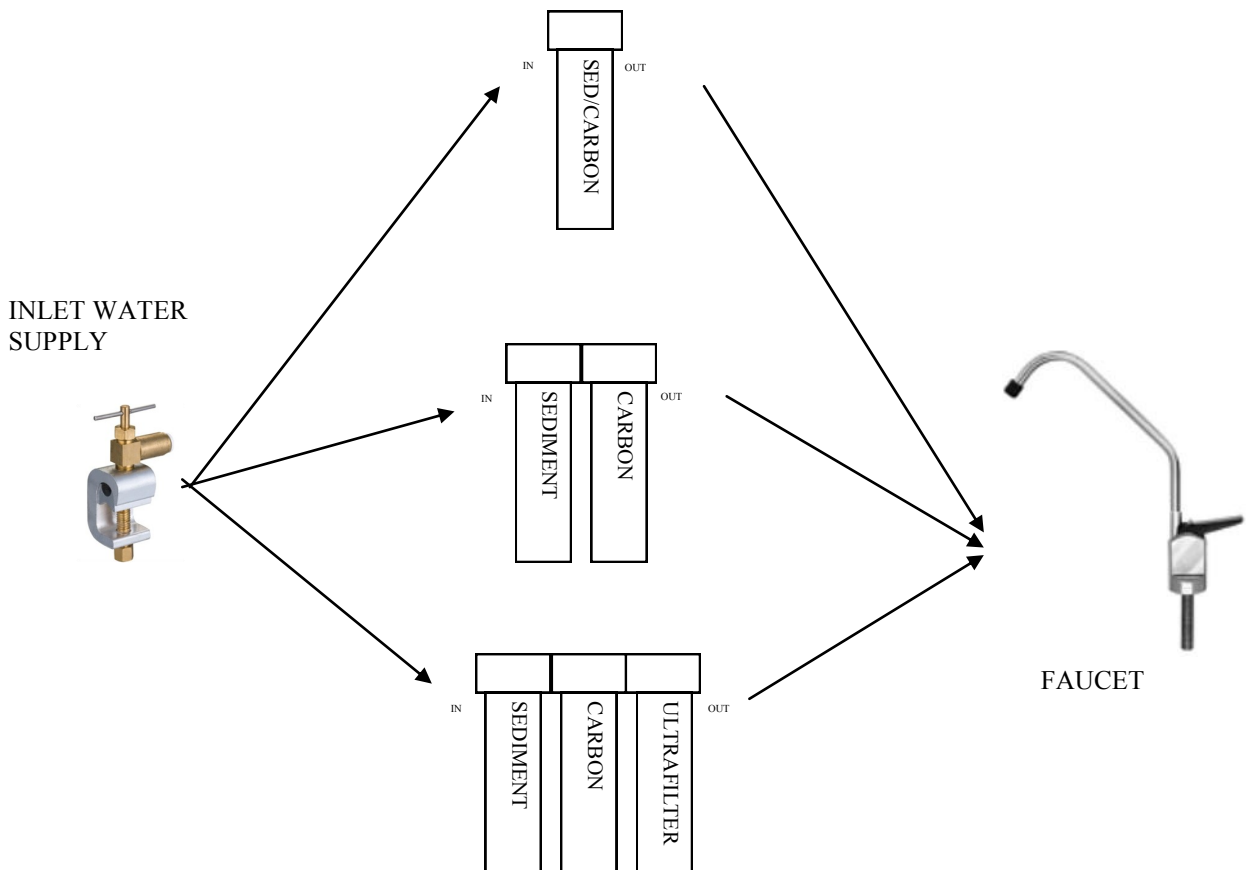
With all components in place, complete final tubing connections using these guidelines:

- Tubing should follow contour of the cabinets
- Cut tubing to desired length using square cuts and proper cutting device
- Make no sharp bends
- Keep tubing from the post-filter to the faucet as short as practical for good flow.
- Leave enough tubing that the system can easily be pulled out from the cabinet for easy filter changes.

### Procedure

1. Connect ¼" tubing from faucet to outlet of filter unit.
2. Connect ¼" tubing from inlet supply valve to inlet of filter unit.
3. Check all connections to be sure they are secure.
4. Turn on feed water valve and check for leaks. (turn off and correct leaks if leaks occur).

## Flow Diagrams



THIS PAGE LEFT INTENTIIONALLY BLANK

## Warranty

**475 QC Filter Systems** (excluding cartridge filters) are warranted to be free from defects in materials and workmanship under normal use within the operation specifications for a period of two (2) years from the date of manufacture or date of purchase when verified by a bill of sale.

**Canature North America Inc.** will replace any part which fails two (2) years from date of manufacture as indicated by the serial number or date code, provided the failure is due to a defect in material or workmanship. The only exception shall be when proof of purchase or installation is provided and then the warranty period shall be from the date thereof.

**Canature North America Inc.** assumes no responsibility for consequential damage, labour or expense incurred as a result of a defect or for failure to meet the terms of these guarantees because of circumstances beyond its control.