



2 Stage UnderSink System

On demand water filter with no waste
(System does not have a Reverse Osmosis Membrane)



INSTALLATION AND OPERATING MANUAL

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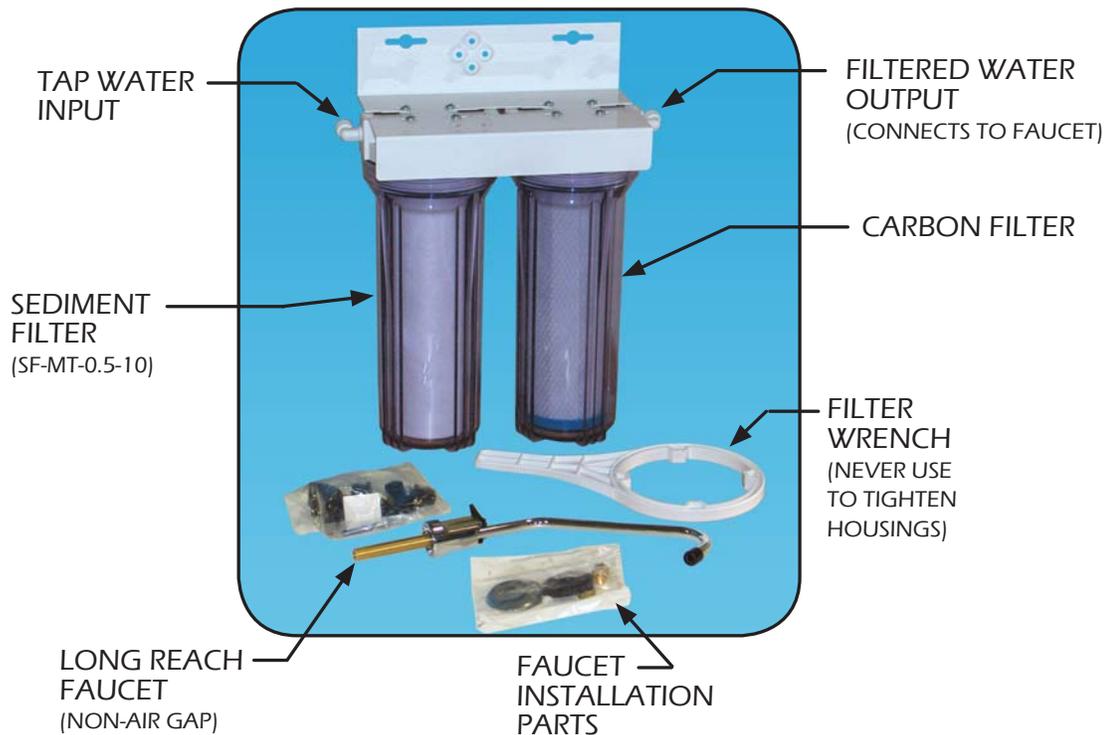
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SYSTEM DESCRIPTION

1. First stage of filtration is a 0.5 micron Sediment pre-filter. This filter is required to remove excess turbidity (particulate matter) that may cause the membrane to plug.
2. Then, the incoming feed water is passed through a Carbon pre-filter. This filter removes organics and chlorine and/or lead from the feed water.



SpectraPure®Inc. assumes no responsibility for water damage due to leaks. It is the user's responsibility to determine that the system is leak-free.

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PREPARATION

1. Prepare for installation by removing all items from under the sink. Locate and turn off the COLD water supply and open the sink faucet to relieve any remaining pressure.
2. Determine an appropriate location for the Under-Sink System and faucet.
3. TOOLS RECOMMENDED FOR INSTALLATION:

- Adjustable Wrench
- Sharp Knife
- Open End Wrench
- Phillips Screw Driver
- Electric Drill
- 1/2" Hole Saw Bit for Faucet Opening or
- Round Knock out Punch for Stainless Sinks, 1/2"



PUNCH HOLE FOR FAUCET IN A STAINLESS STEEL SINK:

If mounting faucet to a Stainless Steel Sink you will need a bimetal or carbide tipped hole saw.

- STEP 1. The Faucet opening should be centered between the back splash and the edge of the sink, ideally on the same side as the vertical drain pipe.
- STEP 2. Drill a 1/4" pilot hole. Use a bimetal or carbide tipped hole saw to punch a 1/2" hole in the sink.

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PUNCH HOLE FOR FAUCET IN A PORCELAIN SINK:

NOTE: Porcelain sink material is extremely hard and can crack or chip quite easily. To avoid this, use extreme caution when drilling. A carbide tipped masonry bit is recommended. **SpectraPure® accepts no responsibility for consequential damage resulting from the installation of the faucet**

STEP 1: Determine a desired location for the faucet on your sink and place a piece of masking tape on the location where the hole is to be drilled. Mark the center of the hole on the tape

STEP 2: Use a variable speed drill on the slowest speed. Drill a 1/8" Pilot hole through both porcelain and metal casing of sink at the center of the desired location. (If drill bit gets hot it may cause the porcelain to crack or chip)

STEP 3: Use a hole saw and proceed to drill the large hole (1/2"). Keep drill speed on the slowest speed and use lubricating oil or liquid soap to keep the hole saw cool during cutting.

STEP 4: Make sure the surroundings of the sink are cooled before mounting the faucet to the sink after drilling. Remove all sharp edges with a file.

SYSTEM INITIALIZATION *(before connecting under sink)*

1. Attach the garden hose adapter to your cold water source. Never run hot water (greater than 100° F (38° C)) through the system.
2. Open the cold water supply valve. You may use pressure up to 80 psi (5.5 bar).
3. Run at least two gallons of water through both filters to flush out the Carbon Pre-filter.

Check the system to ensure that all fittings are tight and leak-free before leaving the system unattended.

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SYSTEM HOOK-UP

CONNECTING COLD WATER LINE TO SYSTEM:

- STEP 1. Follow the cold water line from shut-off valve to the existing faucet and unscrew the threaded connection.
- STEP 2. Insert feed supply valve between cold water line and existing connection.
- STEP 3. Follow the assembly sequence shown for attaching valve to the existing cold water line.
- STEP 4. Connect Black line from RO system as shown on page 7.
- a. Remove the 1/2" Compression Nut from Valve body. Be careful not to lose the plastic or brass Insert and the Conical Compression Sleeve.
 - b. Insert the 1/4" Black Tubing into the Compression Nut with the threads towards the end of the tube.
 - c. Slip the Conical Compression Sleeve onto the Black Tube with the long slope pointing toward the end of the tube.
 - d. Place the Insert into the end of the Black Tubing. Make sure you push the insert in all the way.
 - e. Tighten Compression Nut back on the Valve body.
- STEP 5. When installation of the valve is complete, check for leaks as follows:
- a. Close Feed Supply Valve that you just installed.
 - b. Open cold water supply valve and check for leaks around feed supply valve fittings. Tighten if necessary.

Note: To be certain of the cold line; turn on the hot water, allow water to run until pipe becomes warm. Then attach fitting to the cold water line.

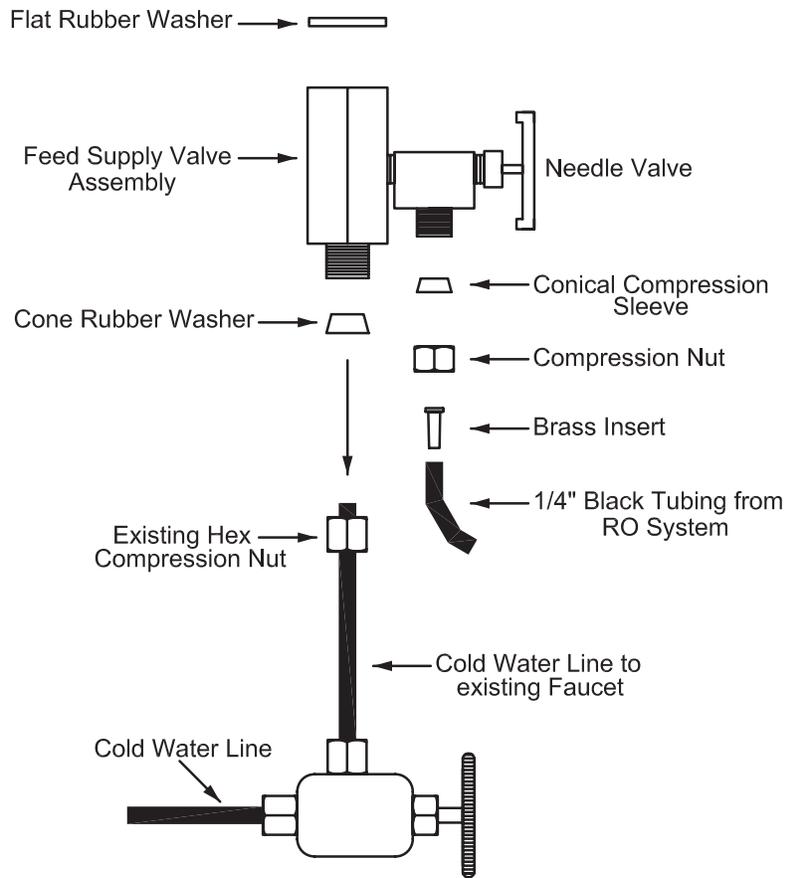
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FEED VALVE



INSTALL ON COLD WATER LINE



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CONNECTING PRODUCT WATER TO FAUCET:

- A. Place the chrome counter plate and large rubber washer over the threaded shaft on the faucet and place in hole previously drilled on page 4 or 5.
- B. Place the small rubber washer, locating washer, flat metal washer, and hex nut in sequence over the threaded shaft and temporarily hand-tighten. (page 9)
- C. Insert the Blue Tube into the Compression Nut with the threads towards the end of the tube. Then add the Compression Sleeve.
- D. Place the Insert into the end of the Blue Tubing. Make sure you push the insert in all the way. Screw the Compression Nut onto the threaded shaft.
- E. Securely tighten both hex nut and Compression Nut.
- F. DO NOT CUT EXCESS TUBING AT THIS POINT. YOU WILL NEED THE TUBING TO PERFORM MAINTENANCE ON THE SYSTEM.

FAUCET PARTS LIST:

- | | |
|------------------------|--------------------------------------|
| - Faucet | - Hex Nut |
| - Chrome Counter Plate | - Plastic Conical Compression Sleeve |
| - Locating Washer | - Flat Metal Washer |
| - Large Rubber Washer | - Small Rubber Washer |
| - Insert | - Compression Nut |

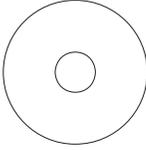
TIP: When connecting the tubes to the hose barbs, try using HOT water to soften the plastic tubes.

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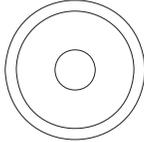
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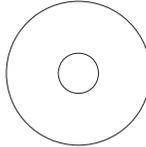
Chrome Counter Plate



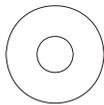
Locating Washer



Large Rubber Washer



Small Rubber Washer



Flat Metal Washer



Hex Nut



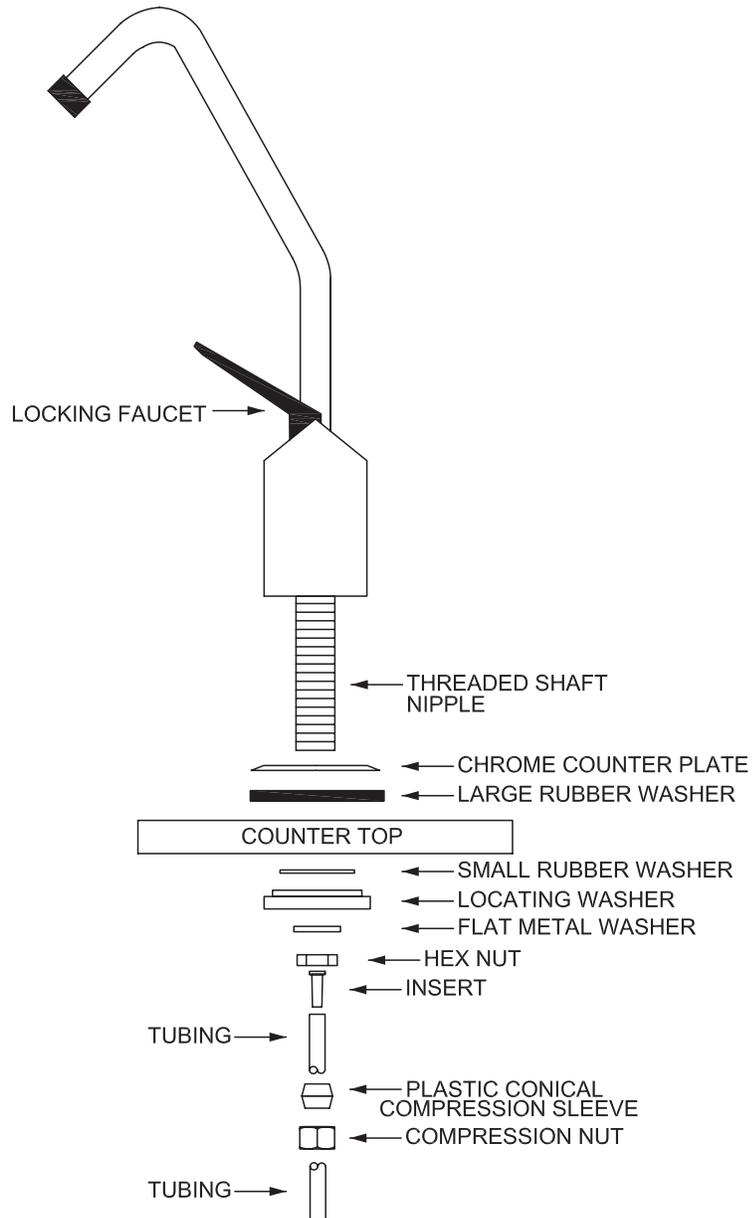
Insert



Compression Nut



Plastic Conical Compression Sleeve



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FILTER REPLACEMENT

SEDIMENT FILTER REPLACEMENT

For maximum contaminant removal and long membrane life, the sediment and carbon filters must be changed at least 6-month intervals. If your water contains a great deal of sediment or chlorine, the pre-filters may require more frequent changes to maintain adequate production.

Sediment Pre-Filter Replacement

Materials Required: 0.5-micron MicroTec™ Sediment Filter (SF-MT-0.5-10), Filter Wrench

Procedure:

1. Turn off water supply to the system.
2. Using the provided filter housing wrench, remove the first housing from the left. Unscrew it counterclockwise as viewed from the bottom.
3. Remove the old filter and discard.
4. Thoroughly wash the housing with a mixture of hot soapy water and a few teaspoons of household bleach. Rinse well with clean hot water.
5. Install the new pre-filter onto the round port on the head of the housing, screw the housing back onto the assembly, and tighten securely using the supplied filter wrench.
6. Proceed with carbon block filter replacement.

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CARBON FILTER REPLACEMENT

Replace the Carbon Block Filter at least every 6 months OR when chlorine breakthrough greater than 0.1 ppm occurs in the yellow concentrate line. To test for chlorine breakthrough, collect a 10 ml sample of water and test the chlorine concentration using test kit TK-CL-25. If the chlorine concentration is above 0.1ppm, replace the carbon pre-filter.

Carbon Block Filter Replacement

Materials Required: 0.5 micron Carbon Block Filter (CF-0.5-10),
Filter Wrench, Chlorine Test Kit (TK-CL-25)

Procedure:

1. Turn off water supply to the system.
2. Using the provided filter housing wrench, remove the second housing from the left. Unscrew it counterclockwise as viewed from the bottom.
3. Remove the old filter and discard.
4. Thoroughly wash the housing with a mixture of hot soapy water and a few teaspoons of household bleach. Rinse well with clean hot water.
5. Install the new carbon block filter, making sure that the black gaskets on both ends of the filter are firmly seated in the gasket recesses.
6. Screw the housing back onto the assembly, and tighten securely using the supplied filter wrench.
7. Turn on system water supply and check for leaks.

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TROUBLESHOOTING GUIDE AND TIPS

STORAGE

1. It is recommended that you store your System in a cool place when not being used.
2. Your System must be protected from freezing or temperatures above 00° F (38°C).

USING THE PRESSURE GAUGE (optional)

The pressure gauge is used to monitor the condition of the pre-filter. When the pre-filter is new, the gauge will indicate the actual available water pressure. As the filter collects particulates, the pressure will begin to drop. A 15% (or more) drop in pressure would indicate that the pre-filter needs replacement.

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TERMS AND CONDITIONS OF SALE

1. Shipping charges on units or parts submitted to our facility for repair or replacement must be borne by the registered purchaser. After repair or replacement, the factory will return the unit or part freight prepaid to the customer.
2. We assume no warranty liability in connection with our equipment other than as herein specified.
3. This warranty is in lieu of all other warranties expressed or implied, including warranties of fitness for a particular purpose.
4. We do not authorize any person or representative to assume for us any other obligation on the sale of our equipment. This is the exclusive remedy and liability for consequential damages under any and all warranties which are excluded to the extent exclusion is permitted by law.
5. Proof of original purchase date must accompany all warranty claims.
6. SpectraPure, Inc. reserves the right to change prices without notice when necessary. All prices in the catalog are quoted in US dollars.
7. Claims for error in quantity or condition must be made within 10 days of receipt of material. SpectraPure, Inc. will not be responsible for any claimed shortages not reported within 10 days. Returns other than warranty claims may be subject to 20% restocking fee.
8. SpectraPure, Inc. cannot be held liable for damage or loss to a shipment by a freight carrier. Check shipment for damage before acceptance or note on freight bill subject to inspection for concealed damage. Consignee must file claim. SpectraPure, Inc. will offer as much assistance as possible.
9. A complete credit check is required prior to shipping on a Net 30 or "C.O.D. - CUSTOMER CHECK ACCEPTABLE" basis. In the interim period during which credit references are being evaluated, all orders must be shipped "C.O.D. - CERTIFIED FUNDS" (cash, cashiers check or money order).
10. All returned checks (due to insufficient funds or closed accounts) will be subjected to a **\$25 penalty charge**.

Invoices on Net 30 accounts not paid within 30 days of shipment will be considered delinquent and will accrue Finance charges at the rate of 1.5% per month (18% per annum).

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THREE YEAR LIMITED WARRANTY

Effective on products purchased after March 10, 2005.

SpectraPure, Inc.® warrants the product to the original owner only to be free of defects in material and workmanship for a period of three years from the date of receipt. SpectraPure's liability under this warranty shall be limited to repairing or replacing at SpectraPure's option, without charge, F.O.B. SpectraPure's factory, any product of SpectraPure's manufacture. SpectraPure will not be liable for any cost of removal, installation, transportation or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by SpectraPure are subject to the warranty provided by the manufacturer of said products and not by SpectraPure's warranty. SpectraPure will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair or, if the product was not installed in accordance with SpectraPure's or other manufacturer's printed installation and operating conditions, or damage caused by hot water, freezing, flood, fire or acts of God.

SpectraPure will not be responsible for any consequential damages arising from installation or use of the product, including any water or mold damage due to flooding which may occur due to malfunction or faulty installation, including, but not limited to failure by installer to over- or under-tighten fittings, housings, and/or push-style fittings, or improper installation of push-style fittings. Consumable items such as pre filters and membranes are not covered under the 3 year warranty.

SpectraPure warrants (pro-rated) the performance of tested SpectraSelect™ RO membrane elements only, for one year from date of receipt by the buyer, providing that the loss of performance was not caused by fouling, neglect or water conditions exceeding the feed water parameters listed in the applicable product manual (refer to detailed membrane warranty information). SpectraPure will, on confirmation of loss of performance during the warranty period, credit the pro-rated amount of the current catalog price of the element. The disposable filters and cartridges are not covered under the warranty.

To obtain service under this warranty, the defective system or components must be returned to SpectraPure with proof of purchase, installation date, failure date and supporting installation data. Any defective product to be returned to the factory must be sent freight prepaid; documentation supporting the warranty claim and a Return Goods Authorization (RGA) number must be included. SpectraPure will not be liable for shipping damages due to the improper packaging of the returned equipment and all returned goods must also have adequate insurance coverage and a tracking number.

SpectraPure will not pay for loss or damage caused directly or indirectly by the presence, growth, proliferation, spread or any activity of "fungus", wet or dry rot or bacteria. Such loss or damage is excluded regardless of any other cause or event that contributes concurrently or in any sequence to the loss. We will not pay for loss or damage caused by or resulting from continuous or repeated seepage or leakage of water, or the presence or condensation of humidity, moisture or vapor, that occurs over a period of 14 days or more. "Fungus" and "fungi" mean any type or form of fungus or Mycota or any by-product or type of infestation produced by such fungus or Mycota, including but not limited to, mold, mildew, mycotoxins, spores, scents or any biogenic aerosols.

SpectraPure will not be liable for any incidental or consequential damages, losses or expenses arising from installation, use, or any other causes. There are no expressed or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

*** The three year limited warranty does not apply to consumable items, including but not limited to, filters and cartridges unless specifically stated above**

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Replacement Parts

Model	Replacement Part
UCS-CB:	
SF-MT-0.5-10	0.5 micron MicroTec™ Sediment Filter
CF-0.5-10	0.5 micron Carbon Block Pre-Filter
USC-CC:	
SF-MT-0.5-10	0.5 micron MicroTec™ Sediment Filter
CF-OCB-10	Granulated Activated Carbon Filter
USC-LR:	
SF-MT-0.5-10	0.5 micron MicroTec™ Sediment Filter
LR FITLER	please call
GHA-4	1/4" (6.35 mm) Garden Hose Adapter
XWR-UNIV	Filter Wrench

Optional Accessories

Model	Optional Part
FAU-SMP	Quick Connect Faucet Coupler
TK-CL-25	Total Chlorine Test Kit

See our Catalog or our Web Site for Liquid Level Controls and other Optional Accessories

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