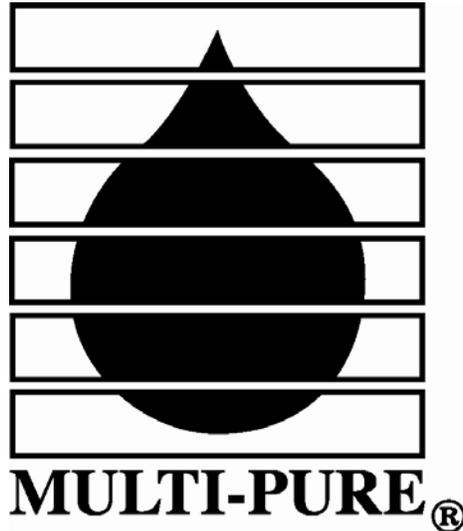


Multi-Pure®



Multi-Pure Drinking Water Systems Model MP400PC

OWNER'S MANUAL

Please retain this manual for future reference.

Multi-Pure Corporation • P.O. Box 34630 • Las Vegas, NV 89133-4630
Phone (702) 360-8880 • Toll-Free (800) 622-9206
www.multipure.com

Multi-Pure Drinking Water Systems

Thank you for selecting a Multi-Pure Drinking Water System to meet your need for quality drinking water. You have acquired one of the finest drinking water treatment devices available for the reduction of a wide array of contaminants. We are confident that your Multi-Pure System will make a difference in your life. Thank you for your business.

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I.A Warranty

Multi-Pure 30-Day Guarantee: Multi-Pure demonstrates its confidence in the performance of its Drinking Water Systems by offering its 30 day money-back guarantee. If you should find the Drinking Water System unsatisfactory, let us know within thirty days of purchase, and we will promptly exchange it or refund your money.

Multi-Pure Warranty: Multi-Pure Corporation warrants to the original retail customer its Drinking Water Systems and components to be free of defects in material and workmanship for use under normal care, and will repair or replace any System at no charge (excluding transportation to Multi-Pure headquarters) to the customer during the warranty period. The MP400PC Drinking Water System housing is warranted for a period of twenty-five (25) years; all exterior hoses and attachments to the System are also warranted for defects in material and workmanship for one year.

Multi-Pure Solid Carbon Block Filters are warranted for defects in material and workmanship for use under normal care. The capacity of the filter cartridge depends upon the amount of impurities in the water to be processed. For optimum performance, it is essential that the Solid Carbon Block Filter cartridge be replaced annually or when it has processed its listed capacity, whichever comes first.

Except as otherwise expressly provided above, Multi-Pure Corporation makes no warranties, express or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose, to any person. This limited warranty may not be altered, varied or extended except by a written instrument executed by Multi-Pure Corporation. The remedy of repair or replacement as provided under this limited warranty is exclusive. In no event shall Multi-Pure Corporation be liable for any consequential or incidental damages to any person whether occasioned by negligence of the manufacturer, including without limitation damages of loss of use, cost of substitution, property damage, or other monetary loss.

Warranty is valid only if Drinking Water System is operated within conditions listed herein.

I.B Operation and Maintenance Specifications

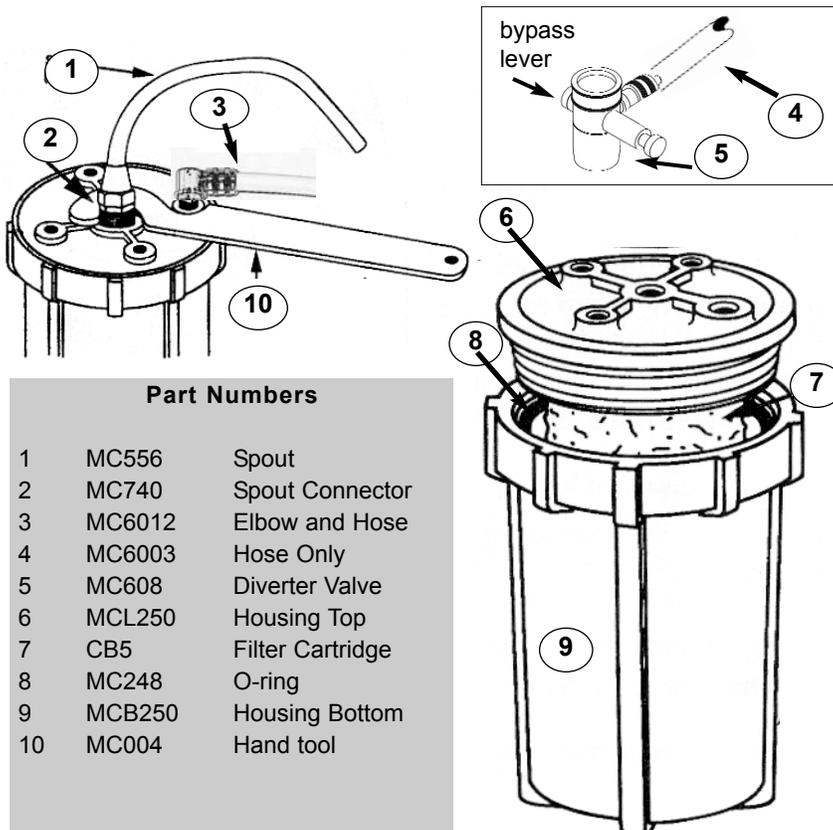
Multi-Pure Drinking Water Systems have been extensively tested and certified by independent agencies so as to provide you with the highest level of assurance that the device will perform as claimed. Please read this manual carefully before proceeding with the installation. Installation, operation and maintenance requirements are essential to the performance of your Drinking Water System. Failure to follow any instructions or operating parameters contained herein may lead to the product's failure and possible damage to property.

	Model No. MP400PC
Model Numbers	MP400PC, MP400PCE
Approximate Filter Capacity	400 gallons
Replacement Filter Type	CB5
Approximate Filter Cost	\$40.00 +
Approximate Flow Rate @ 60 psi	0.75 gpm
Housing Composition	ABS Plastic
Rubber Items	Nitrile
Inlet	1/4" pipe
Outlet	1/4" Pipe
Maximum Working Pressure	100 psi/ 7.0 kg/cm ²
Minimum Working Pressure	30 psi/ 2.1 kg/cm ²
Maximum Operating Temperature	100° F/38°C-for cold water use only
Minimum Operating Temperature	32°F/0°C - for cold water use only
Particle Retention Size	sub micron (0.5 micron)
+ plus tax and shipping and handling	

NOTES

- Replacement filters can be purchased directly from Multi-Pure Corporation. The replacement filter model numbers are shown in the adjacent table. The approximate retail price of the replacement filter is also shown in the table. Price excludes sales tax and shipping and handling fees (prices subject to change without notice).
- Filter life will vary in proportion to the amount of water used and the level of impurities in the water being processed. Replace the filter cartridge when the first of the following occurs: (a) annually; (b) when the unit's capacity is reached; (c) the flow rate diminishes; (d) the filter becomes saturated with bad tastes and odors. The capacity of the filter cartridge is 400 gallons for Model MP400PC.
- Not intended to be used where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit.
- Do not allow water to freeze in the unit. If unit is exposed to freezing temperatures, drain water from unit and remove filter.
- Do not allow water to sit in unit for extended periods of time (10 or more days) without being used. If unit is to be left unused for more than 10 days, drain all water from the system and remove the filter. Upon your return, reconnect the filter in the housing and continue use. In the event water does sit in the unit for 10 or more days, the system should be flushed by allowing water to flow to waste for about 3 minutes; then continue use as normal.
- To dispose of the used filter, remove it from the housing and place the old filter in your normal refuse. The filter disposed of in a normal land fill will not release any chemical contamination but will probably continue to adsorb additional contaminants that are disposed of in landfills.
- Check for compliance with state and local laws and regulations.

I.C Installation Overview and Part Numbers



II. MP400PC Installation - Preparing the Housing

The Model MP400PC Drinking Water System is designed for use on the countertop adjacent to your sink. Designed for convenience, this countertop unit is easily attached to most faucets without the use of special tools. Multi-Pure's easy-to-use diverter allows you to switch from filtered to unfiltered water.

Your Countertop Unit is shipped with the accessories and fittings required to complete the installation.

Should you require assistance, please contact your Independent Distributor; if she/he is not able to help you, please feel free to contact Multi-Pure's Customer Service Department.

Please follow the easy procedures outlined in this manual to assure a smooth installation and system start-up. We recommend that you proceed with your installation in the following order:

1. **Installing the Filter**
2. **Connecting the Hose and Diverter Valve to Your Faucet**
3. **Connecting the drinking water system**
4. **Start-up and Use of Your Countertop Drinking Water System**

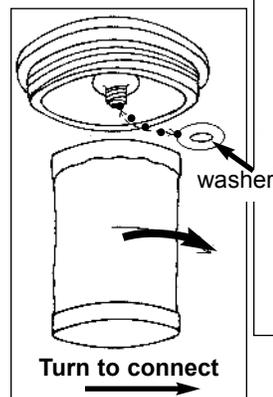
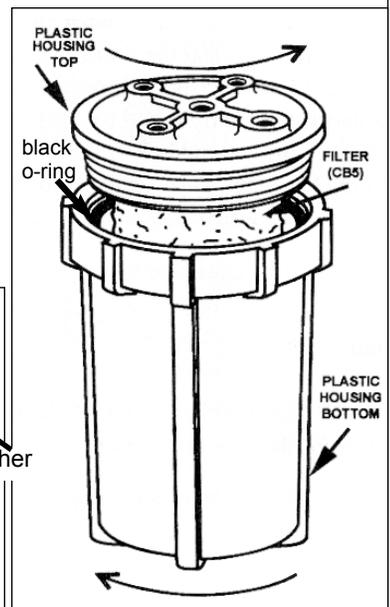
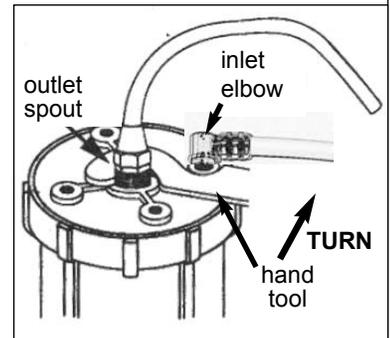


Filter Cartridge Installation

The filter cartridge is shipped outside of the unit housing (in most cases) to protect your filter and drinking water system from damage during shipping. Be sure to insert the filter cartridge into the drinking water system housing before proceeding with the installation.

First, remove the plastic wrapper and instruction wrap from around the filter.

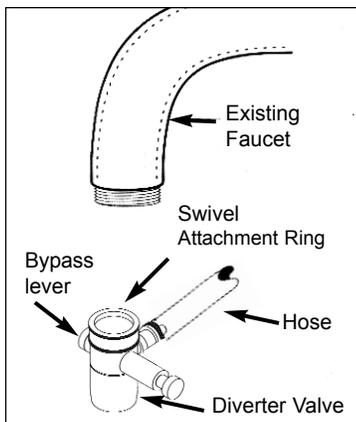
1. With the housing in an upright position, open it by turning the top of the housing. If the top is too tight, use the hand tool to open the housing by inserting the hand tool between the outlet spout and the inlet elbow and, applying steady pressure, turn counter clockwise until the top is loose. Then complete the opening process by turning the bottom.
2. Separate the top from the bottom, leaving the black o-ring in place.
3. Slide the white rubber washer over the threaded nipple in the center of the top.
4. Then screw the filter (cartridge) in the housing top, turning the cartridge in the direction shown until firm. Be sure that the filter has been screwed in **STRAIGHT**. **DO NOT OVER TIGHTEN**.
5. Confirm that the black o-ring is in place.
6. Reconnect the housing top with bottom by turning the bottom until firm. **DO NOT OVER TIGHTEN**.



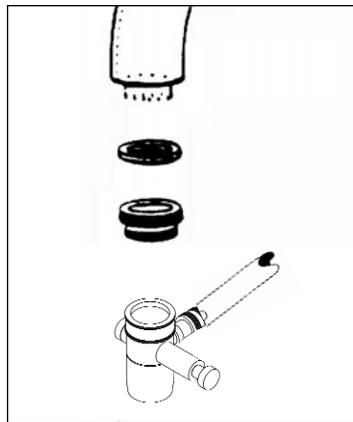
III. Connecting the Hose and Diverter Valve to Your Faucet

This Countertop model sits on the counter next to the sink and is connected with a hose and diverter valve to your existing faucet.

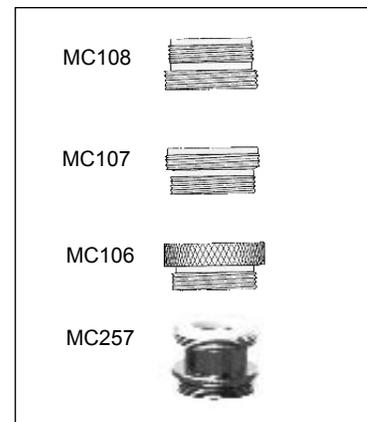
1. The water at your sink should be turned off.
2. Remove the aerator or screen from the end of your faucet.
3. Attach the Diverter Valve directly to the faucet spout. If the threads of the Diverter Valve don't match the threads of your faucet, use one of the adapters provided with your unit.
 - a. **Faucets with Outside Threads:** For most faucets with outside threads, the diverter valve can be attached directly to the faucet. However, if the Diverter Valve is smaller than your faucet, attach the adapter with inside threads directly to your faucet and then attach the Diverter Valve to the adapter.
 - b. **Faucets with Inside Threads:** If your faucet has threads on the inside, attach one of the two adapters with outside threads (choose the appropriate size for your faucet) directly to your faucet and then attach the Diverter Valve to the adapter.
 - c. **Faucets with No Threads:** If your faucet has no threads, you will need to measure the inside neck diameter of the faucet and provide this information to your Multi-Pure Distributor or Multi-Pure's Customer Service Department. They will provide you with a special expandable adapter to fit your faucet.
 - d. **Faucets with Odd Sized Threads:** If your faucet does not fit any of the adapters provided with your unit, send your threaded aerator or screen to your Multi-Pure Distributor so that he can supply you with the correct adapter to meet your needs. We recommend that you first call the Multi-Pure Customer Relations Dept. at 800-622-9206, ext. 175.
 - e. **Faucets requiring more clearance for the connection, such as sprayer hose faucets, would use a long adapter (MC257).** See installation instructions below.



Diverter Valve Attachment



Diverter Valve Attachment with adapter



Adapters (choose one)
Many installations do not require an adapter

Instructions for Installing a Long Adapter

The long adapter (MC257) shown in Fig. 1 is used to connect the Hose & Diverter Valve assembly to your faucet or sprayer hose faucet, needing more clearance for the connection.

1. Remove the aerator or screen from your faucet.
2. Take the long adapter and attach it to the opening of the spout/sprayer then connect the Hose & Diverter Valve assembly to the adapter (Fig. 2).
3. Position the Drinking Water System on the sink to allow enough room to use the sprayer faucet.



Fig. 1

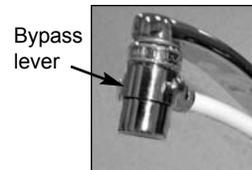


Fig. 2

IV. Connecting Model MP400PC

Designed for countertop use only, this plastic unit comes with the hose assembly attached to the housing top. See Section II for instructions on installing the filter in the housing. To complete the installation and engage the unit:

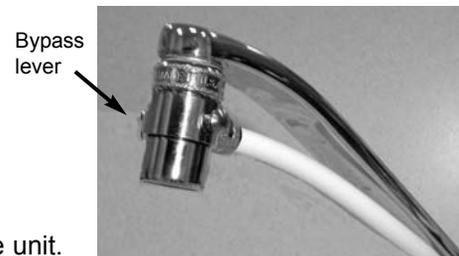
1. Connect the spout to the housing top by pushing it gently into the spout connector until both o-rings are not visible.
2. Turn on the water and push the bypass lever of the diverter valve to divert water through the unit.
3. For start-up instructions, see Section V.



V. Start-up and Use of Your Countertop Drinking Water System

Congratulations, your MP400PC Drinking Water System has been connected to your faucet and you are now ready to start-up the unit, as follows:

1. Using a paper towel or cloth, dry off all connections.
2. Also, dry off the drinking water unit.
3. Ensure that all connections are tight (CAUTION: DO NOT OVER TIGHTEN).
4. Turn on the water.
5. Push the bypass lever of the diverter valve to start the flow of water through the unit.
6. Allow the water to run through the unit spout for about 5 minutes so that all air can escape.
7. Push the bypass lever of the diverter valve to shutoff the flow of water through the Drinking Water System. Then turn off the faucet to stop the flow of water at your sink.
8. Check all connections to confirm that there are no leaks.
9. Allow water to run through the unit to waste for approximately 20 minutes to flush the filter and charge the carbon.
10. Push the bypass lever of the diverter valve to shutoff the flow of water through the Drinking Water System. Then shut off the water at your faucet and check for leaks.



Congratulations, you have completed the installation.

For optimum performance and to maintain the warranty on your Multi-Pure Drinking Water System, it is recommended that your filter be replaced on a regular basis. Filter life will vary depending on amount of water used and the type and level of contaminants in your local water.

If you have any questions regarding the installation of your countertop unit, call:

**Multi-Pure Corporation
Customer Relations Department
7251 Cathedral Rock Drive
Las Vegas, NV 89128
(702) 360-8880 phone
(800) 622-9206 toll-free
(702) 360-3110 fax
email: custsvc@multipure.com
www.multipure.com**

VI. Filter Life

Filter life will vary in proportion to the amount of water used and the level of impurities in the water being processed. Claims of capacity are not applicable to contaminants reduced by mechanical filtration because of broad variations in the quality and quantity of physical matter in your drinking water. Your Multi-Pure filter will clog, protecting you from these contaminants, and your flow rate diminishes. For contaminants reduced by adsorption, filter life/capacity for Model No. MP400PC is 400 gallons.

It is recommended that filters be replaced annually or sooner if needed. For optimum performance and to maintain your warranty, it is essential that the filter be replaced on a regularly scheduled basis as follows: (a) annually; (b) when the unit's rated capacity is reached; (c) the flow rate diminishes; (d) the filter becomes saturated with bad tastes and odors.

If you have any questions regarding the installation of your Multi-Pure Drinking Water System, please call Multi-Pure's Customer Relations Department toll-free (800) 622-9206 ext. 175.

**For a Replacement Filter (Model CB5)
Call (800) 622-9208 or go to
www.multipure.com/rf.htm**

VII. Certification

**Multi-Pure Model No. CB5
(fits Model MP400PC)**



This filter cartridge is Tested and Certified by NSF International against NSF/ANSI Standard 42 for material requirements only.

COMPONENT

VIII. Product Registration

Thank you for choosing Multi-Pure Water Systems. Multi-Pure is committed to providing the highest level of customer service. Please register your purchase with us so that we can better serve you should you need assistance. There are two ways to register your product purchase:

- 1. Register online at www.multipureco.com/productreg.htm**
- 2. Register by mail**

Please complete the below form and mail to:

Multi-Pure Corporation
Customer Service Department
7251 Cathedral Rock Drive
Las Vegas, NV 89128

----- ✂ -----

Name:		
Address (number and street):		
City:	State:	Zip:
Telephone Number:	Date of Purchase:	
E-mail address:		
Distributor's Name (person from whom you purchased the Multi-Pure unit):		

Thank you. We appreciate your taking the time to register your purchase. The information you provide to us is used only by Multi-Pure to provide you with service. Your information is not shared with any other entity.

IX. Instructions for Changing Your Filter

INSTRUCTIONS - Model No. MP400PC

1. Remove plastic wrapper and instruction wrap from filter.
2. Confirm that water is off. It may be advisable to place a pan beneath the housing before opening it.
3. With the housing in an upright position, open it by turning the top of the housing. If the top is too tight, use the hand tool to open the housing by inserting the hand tool between the outlet spout and the inlet elbow (see Fig. A) and applying steady pressure until the top is loose. Then complete the opening process by turning the bottom of the housing (see Fig. B).
4. Separate the top from the bottom of the housing (Fig. B), leaving the black o-ring in place.
5. Remove old filter (cartridge) from the housing top by turning in the direction shown in Fig. C.
6. Wrap the used filter in paper and dispose of in your normal refuse.
7. Clean and rinse out the inside of the housing.
8. Insert new white rubber washer and screw new filter in the housing top by turning in the direction shown in Fig. D until firm. **DO NOT OVER TIGHTEN.**
9. Confirm that the black o-ring is in place and free of debris (Fig. B).
10. Reconnect the top with bottom until firm (Fig. B) **DO NOT OVER TIGHTEN.**
11. Turn on the water.
12. Push the bypass lever of the diverter valve to start the flow of water through the unit.
13. Allow the water to run through the housing spout for about 5 minutes so that all air can escape.
14. Push the bypass lever of the diverter to shut-off the flow of water through the Drinking Water System. Then turn off the faucet to stop the flow of water at your sink.
15. Check all connections to confirm that there are no leaks.
16. Allow water to run through the housing to waste for approximately 20 minutes to flush the filter and charge the carbon.
17. Push the bypass lever of the diverter to shut-off the flow of water through the Drinking Water System. Then shutoff the water at your faucet.

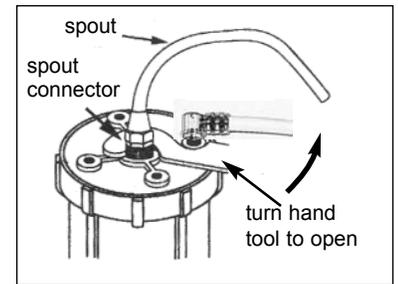


Fig. A

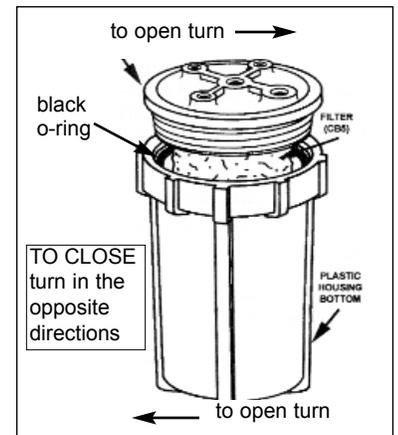


Fig. B

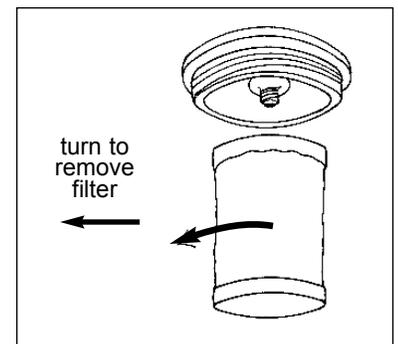


Fig. C

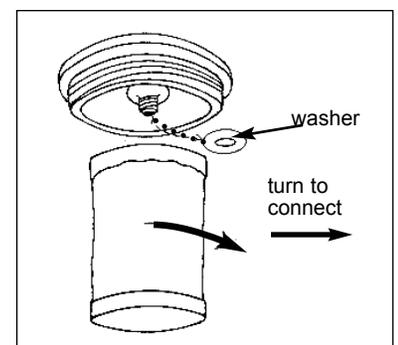


Fig. D

X. Troubleshooting

Problem	Cause	Remedy
Taste/Odor (general)	The carbon block filter may become saturated with the taste and odors it adsorbs.	Change the filter
Rotten egg odor	Typically a sign of H ₂ S (hydrogen sulfide) gas which can occur at any time.	It is recommended that you keep two filter cartridges on hand. When one becomes saturated with odor, remove it and allow it to dry upside (threaded-hole) down on a paper towel. The sulfur gas will dissipate, allowing the cartridge to be reused. Rotating cartridges in this manner will, in some cases, help extend the life of the filter.
Odor & odd color on cartridge	H ₂ S (hydrogen sulfide) caused by iron (orange/brownish), manganese (blackish), and/or decaying organisms (slimy/blotchy colors) can cause rotten egg-type odor.	Change of filter cartridge is the only recommended course of action.
"Milky" color in water	Higher than normal water pressure through the System will create small bubbles. Air bubbles do not effect the performance of the system. Air can be trapped inside the lid of the housing.	For a countertop installation, turn on the water and engage the diverter valve while reducing the water flow slightly. For a below the sink installation, adjust the water pressure at the feedwater adapter below the sink. Turn on the ledge faucet or diverter valve and let water run for 3 to 5 minutes after installation or filter change.
Flow rate is slow	Solids: The filter is designed to become restricted in its flow rate when the filter becomes clogged with particulate and other contaminants. When your water flow rate slows to the point that it is inconvenient to use, it is time to change your filter.	It is recommended that filters be replaced at least every twelve months or when its capacity is reached, whichever comes first. If water pressure is too low, adjust water pressure to 60 psi. If other faucets or sprinklers are on turn off other running water.
Water dripping from faucet assembly	Adjustment of water flow is needed.	Below sink units - remove the faucet handle by first removing the spout (pull straight up) and then slide the handle off the faucet base. Then turn the small t-bar about one half turn to tighten the faucet assembly.
Water is black	Carbon dust	Allow water to run through the unit to waste for approximately 20 minutes to flush the filter and charge the carbon.

Maintenance Problems

Flushing / disinfecting the unit housing: Multi-Pure recommends that you not allow water to sit in a unit for extended periods of time without it being used. If a unit is left unused for more than 10 days, it may need to be flushed/disinfected before you resume use.

To flush a unit that may be contaminated:

1. Confirm that water is turned off to the unit.
2. Relieve the water pressure (if below sink unit) by opening the unit faucet.
3. Remove and discard the used filter.
4. Clean & rinse out the inside of the housing.
5. Add 5 to 7 drops of bleach, such as Clorox™ or Purex™ (5 ¼% sodium hypochlorite) to the bottom canister.
6. Reconnect the housing top and bottom without the replacement filter.
7. Turn on water and let unit housing fill up with the water/bleach solution.
8. Allow unit to soak for at least 30 minutes.
 - a. Countertop Units: To disinfect the spout, place your finger over the tip of the spout and turn the unit upside down. Repeat this procedure 2 or 3 times during the 30-minute soak period.
 - b. Below Sink Units: To disinfect the faucet spout, remove the spout and place it in a container with one-quart of water and bleach (use 5 drops of bleach) and allow to soak for 30 minutes.
9. After the housing has soaked for 30 minutes, disassemble the top and bottom and pour out the water/bleach solution. Rinse out the inside of the housing.
10. Replace the filter (cartridge) following the instructions with the new filter.
11. Follow the instructions with the replacement filter for reconnecting and flushing your unit.

Stuck / Sticking Diverter Valve: Normally caused by a mineral (calcium) buildup around the diverter lever. There are two methods for solving this problem (Vegetable Oil or Vinegar).

Vegetable Oil (Using vegetable oil to lubricate the diverter valve does not dissolve the mineral deposits which build up and cause the sticking; thus it will be necessary to repeat this procedure from time to time)

1. Unscrew diverter valve from faucet.
2. Pour a little vegetable oil in the inlet hole.
3. Push the diverter valve lever in/out several times to lubricate it thoroughly.
4. Replace diverter valve on faucet.

Vinegar (Using vinegar to dissolve the mineral deposits may cause discoloration)

1. Unscrew diverter valve from faucet.
2. Soak diverter valve in vinegar for 10 minutes.
3. Rinse and replace diverter valve on faucet.

If these methods don't work, it may be necessary to replace the diverter valve. Please contact Multi-Pure Customer Service at 800-622-9206 for assistance.

Diverter Stem Stuck (If diverter stem is not operating properly - sticking)

1. Disconnect diverter valve from faucet.
2. Push lever in and out -- if you can push the lever easily, there was air in the tubing.
3. Reconnect diverter valve.

XI. Questions and Answers

Question	Answer	Comments
Will low pH or acid water affect the Multi-Pure filter?	No.	Mineral components expressed as acidity and alkalinity determine pH. Neutrality is 7; below 7 is acidity; above 7 is alkalinity.
Does deionized water or soft water have any affect on Multi-Pure water?	No.	N/A
Can the Multi-Pure System be connected to an automatic ice-maker?	The below sink models can be connected to both your sink and refrigerator, to any type of water dispenser or ice-maker. You can use the same unit installed under your sink to also filter the water at your refrigerator.	To connect a single Drinking Water System to both your sink and refrigerator, request an "ice-maker tee" on the order form.
Can the Multi-Pure System be used during an emergency or when the water is turned off?	Yes, you can hand pump or siphon water through the Multi-Pure System during an emergency. CAUTION -- the Multi-Pure System is not intended to be used where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit.	If water source is questionably contaminated, it should be disinfected prior to use. Add ¼ tsp of household bleach per gallon of water; the Multi-Pure System will remove this solution from the water. Hand pump kits are available from Multi-Pure.
What causes "white" particles to appear in Multi-Pure water when it is frozen or boiled?	The natural minerals in the Multi-Pure water solidify when the water is frozen, and those minerals appear as white flakes or specks when the ice melts.	Natural minerals are beneficial to good health and their existence in drinking water (in normal quantities) should not cause any alarm. Minerals can be removed by Reverse Osmosis technology, which is also available from Multi-Pure on request.
Why does the Multi-Pure System reduce Volatile Organic Chemicals, but not natural minerals?	Minerals are totally dissolved in solution and do not have an actual physical size; thus, the minerals pass through the filter unchanged.	The materials used in Multi-Pure Drinking Water Systems are specially selected for their ability to react with the chemicals in the water, but not with natural minerals that are beneficial to good health.
Should sediment be removed with a standard filter first?	In areas with excessive sedimentation, prefiltration will help extend the operational efficiency of the Multi-Pure cartridge; however, in most areas this is not necessary.	The Multi-Pure System contains a triple filter. The outside material is a prefilter that helps protect the solid carbon block surface from prematurely clogging with large sediment.
Why is the compressed activated carbon block filtration system more efficient than activated carbon (loose granular) systems?	Multi-Pure's solid carbon block filters are compacted into a dense structure causing every molecule of water to be forced through microscopic pores of carbon, effectively reducing a wide range of contaminants of health concern, as well as adsorbing tastes and odors and removing particulate matter removed by typical activated carbon filters.	The Water Quality Association reports that "an activated carbon filter can reduce organics and solid particles, as well as offensive tastes and odors." Only precoat and solid carbon block filters are engineered to provide 0.5 micron mechanical filtration.
What is the difference between a "water softener" and the Multi-Pure Drinking Water System?	Softeners are not used to treat drinking water; they are used only to change the water hardness. Softeners put sodium into the water in exchange for magnesium or calcium ions. Multi-Pure Drinking Water Systems do not remove dissolved minerals, so, the pH is not changed. Natural minerals most often found in water are considered to be essential to good health.	Soft water is good for bathing and laundering and may extend the life of hot water heaters and boilers. However, soft water should not be used for watering plants or lawns. It is recommended that you bypass a water softener when installing your Multi-Pure Drinking Water System.
Can the Multi-Pure System be used on untreated water?	If water source is questionable, it should be disinfected prior to use. Add ¼ tsp of household bleach per gallon of water; the Multi-Pure System will remove this solution from the water. Consult your nearest public water utility for assistance or guidelines on proper treatment of untreated water.	Multi-Pure Systems are designed to be used on treated water systems; they are not intended to be used where the water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

For instructions in Spanish, please turn the manual over.

Be sure to replace your filter at least once a year, or sooner if needed.

Date of Installation: _____ <i>Fecha de Instalación</i>
Unit Model Number: _____ <i>Tipo de Unidad</i>
Filter Type: _____ <i>Tipo de Filtro</i>
Dates of Filter Change / Fechas de Cambio del Filtro

To order a Replacement Filter

Call 1-800-622-9208

or

www.multipure.com/rf.htm



Multi-Pure Corporation

The Las Vegas Technology Center

7251 Cathedral Rock Drive

Las Vegas, NV 89128

(800) 622-9206 toll-free

(702) 360-8880 phone

(702) 360-3110 fax

headquarters@multipure.com