

# Multipure®



Water Guardian Drinking Water Appliance  
For Countertop Use Only

MODEL No. MPADC

## Owner's Manual

Please retain this manual for future reference.

# Multipure Drinking Water Systems

Thank you for selecting a Multipure 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 Multipure System will make a difference in your life. Thank you for your business.

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## I.A Warranty

**Multipure 90-Day Guarantee:** Multipure demonstrates its confidence in the performance of its Drinking Water Systems by offering its 90 day money-back guarantee. If you should find the Drinking Water System unsatisfactory, let us know within 90 days of purchase.

**Multipure Warranty:** Multipure 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 Multipure headquarters) to the customer during the warranty period. The Drinking Water System housing is warranted for a lifetime (provided the filter has been changed at least once per year); all exterior hoses and attachments to the System are also warranted for defects in material and workmanship for one year.

Multipure 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 and to maintain your warranty, it is essential that the filter be replaced when the first of the following occurs: (a) annually; (b) when the unit's rated capacity is reached; (c) the flow rate diminishes; or (d) the filter becomes saturated with bad tastes and odors.

Except as otherwise expressly provided above, Multipure 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 Multipure Corporation. The remedy of repair or replacement as provided under this limited warranty is exclusive. In no event shall Multipure 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.

## I.B Operation & Maintenance Specifications

Multipure Drinking Water Systems have been extensively tested and certified by NSF International 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.

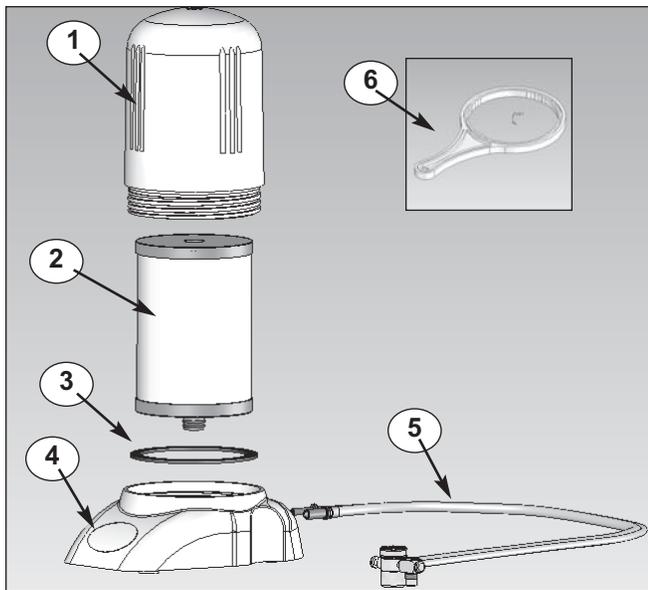
Water Guardian Model	
Model Numbers	MPAD
Approximate Filter Capacity	750 gallons
Replacement Filter Type	CBTAD
Approximate Flow Rate @ 60 psi	0.75 gpm
Housing Composition	Polypropylene
Rubber Items	Nitrile
Inlet	3/8" stem
Outlet	1/4" stem
Maximum Working Pressure	100 psi/7.0 kg/cm <sup>2</sup>
Minimum Working Pressure	30 psi/2.1 kg/cm <sup>2</sup>
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)
Certified by:	NSF International

### NOTES

1. Replacement filters can be purchased through your independent dealer. The replacement filter model numbers is shown in the adjacent table.
2. 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 rated capacity is reached; (c) the flow rate diminishes; or (d) the filter becomes saturated with bad tastes and odors. The rated capacity of the filter cartridge for the Water Guardian is 750 gallons.
3. 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.
4. Do not allow water to freeze in the unit. If unit is exposed to freezing temperatures, drain water from unit and remove filter.
5. 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.
6. To dispose of the used filter, remove it from the housing and place the old filter in your normal refuse.



## I.C Installation Overview & Part Numbers



### Parts List

1. Housing Top
2. Filter Cartridge
3. Black Gasket
4. Housing Bottom
5. Hose and Diverter Valve
6. Hand Tool

## II.A Preparing the Housing

The Multipure Water Guardian Drinking Water Appliance, Model MPADC is designed for use on the countertop next to your sink. You can connect it to your existing faucet using the high-tech chrome diverter valve that allows you to easily 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 authorized independent dealer.

**Please follow the easy procedures outlined in this manual to ensure a smooth installation and system start-up.**

**NOTE:** The filter cartridge is factory-installed inside the unit housing. The Water Guardian unit is for countertop use only.

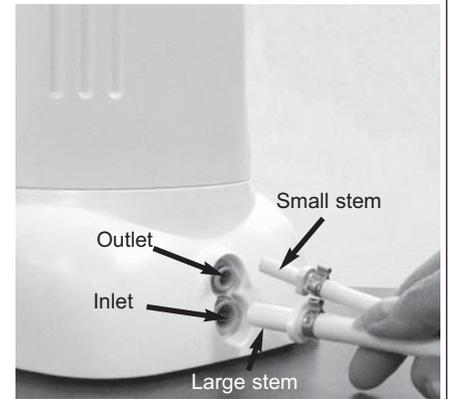
1. Inspect your Drinking Water System to confirm that it has been received in good condition and that all parts are included (see diagram and parts list above).
2. Determine the desired location of your countertop for the unit so that the hose can easily be attached to your faucet.
3. Inspect the unit housing to confirm that the housing top is securely connected to the bottom.
  - a. With the housing in an upright position, slide the hand tool over the top so that the ridges on the tool fit into the grooves on the housing top.
  - b. Applying steady pressure, turn clockwise to tighten. Hold the base in place on the countertop while turning the top.



## II.B Connect the Hose to the Housing

NOTE: The Water Guardian comes with a diverter valve and hose that connects the drinking water system to your faucet.

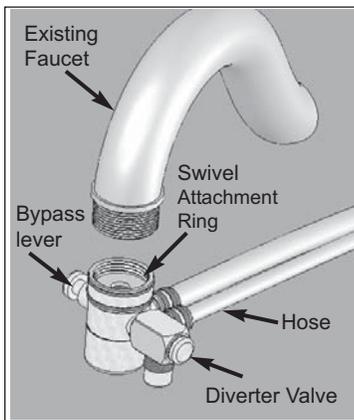
1. To connect the hose to the housing base, insert the stems on the end of the hose into the inlet and outlet ports.
  - a. Insert the larger stem into the bottom port (Inlet connector) by slowly pushing the stem straight into the connector as far as it will go. Give a second push to confirm that the stem is fully inserted.
  - b. Insert the smaller stem into the top port (Outlet connector) by slowly pushing the stem straight into the connector as far as it will go. Give a second push to confirm that the stem is fully inserted.



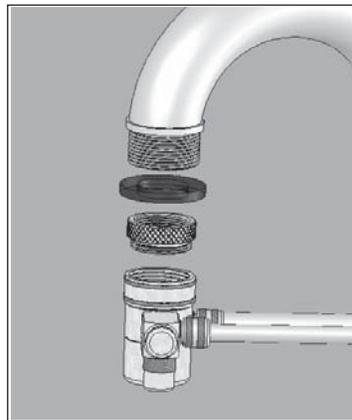
## II.C Connecting the Hose and Diverter Valve to Your Faucet

NOTE: The Water Guardian Drinking Water Appliance is easy to install on most standard faucets. And, it includes a feature that makes it easy to switch from filtered to unfiltered water.

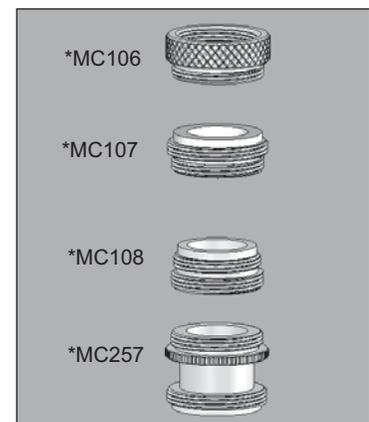
1. The water at your sink should be turned off.
2. Remove the aerator or screen from the end of your faucet.
3. Attach the Diverter Valve directly to the faucet spout. If the threads of the Diverter Valve don't match the threads on your faucet, use one of the adapters provided with your unit.
  - a. 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 (\*MC106) 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 (\*MC107 or \*MC108) with outside threads (choose the appropriate size for your faucet) directly to your faucet and then attach the Diverter Valve to the adapter.
  - c. If the adapters sent with your unit do not fit, you will need to contact your independent dealer.
  - d. Faucets requiring more clearance for the connection, such as sprayer hose faucets, would use a long adapter (\*MC257). See installation instructions on next page.
4. Turn on the water and push the bypass lever of the diverter valve to start the flow of water through the unit. See next section for start-up and use of your drinking water system.



Diverter Valve Attachment



Diverter Valve Attachment  
with adapter



\*MC700 - Adapters (choose one)  
Many installations do not  
require an adapter

\* Adapters are not included as part of the NSF Unit Certification.

## II.C Connecting the Hose and Diverter Valve to Your Faucet (continued)

### 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

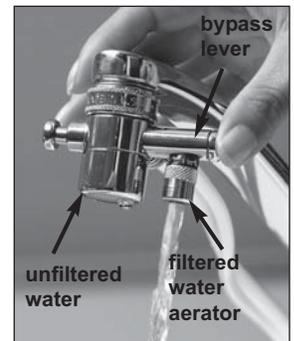


Fig. 2

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

Congratulations, your Multipure Water Guardian Drinking Water Appliance 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 and the drinking water unit.
2. Ensure that all connections are tight (CAUTION: DO NOT OVER TIGHTEN).
3. To purge all air from the unit, turn the housing **upside down** and then turn on the water. Push the bypass lever of the diverter to start the flow of water through the unit. Allow the water to run through the unit and filtered water spout for one minute. Then close the bypass lever and shut off the water at the faucet.
4. Turn the unit right side up and place it on your counter and check all connections to confirm that there are no leaks.
5. Turn on the water and push the bypass lever of the diverter valve to again start the flow of water through the unit.
6. Allow water to run through the unit to waste for approximately 30 minutes to fully flush the filter and charge the carbon.
7. Push the bypass lever inward to shutoff the flow of water through the System. Then shut off the water at your faucet and check for leaks.



**Congratulations, you have completed the installation. If you have any questions regarding the installation of your countertop unit, please call your authorized independent dealer**

## IV. 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 Multipure filter will clog, protecting you from these contaminants, and your flow rate will diminish. For contaminants reduced by adsorption, filter life/capacity is 750 gallons.

For optimum performance and to maintain your warranty, it is essential that the filter be replaced when the first of the following occurs: (a) annually; (b) when the unit's rated capacity is reached; (c) the flow rate diminishes; or (d) the filter becomes saturated with bad tastes and odors.

**For a replacement filter, please call your independent dealer**

## V. Instructions for Changing Your Filter

### REMOVING THE OLD FILTER

1. Remove the shipping materials - plastic wrapper and instruction wrapper.
2. It is advisable to place a folded towel beneath the housing before opening it. Or you may place it in your sink or in a container to open.
3. Confirm that your tap water is off.
4. Open the diverter valve by pushing the bypass lever (Fig. A) so that the water flows through the unit and the filtered water spout until the flow stops.
5. When the flow of water stops, then close the diverter by pushing the bypass valve.
6. With the housing in an upright position, or on its side on a towel, use the Aqua Dome hand tool to open the unit (Fig. B).
  - a. Slide the hand tool over the housing top so that the ridges on the tool fit into the grooves on the housing top.
  - b. Applying steady pressure, turn counter clockwise to loosen. Hold the base in place on the countertop while turning the top.
  - c. Once the top is loose, you can complete the opening process by turning it with your hand.
7. Remove the housing top from the base, leaving the black gasket on the bottom of the base (Fig C).
8. Remove the old filter (cartridge) from the unit base by pulling out and slightly twisting the filter until it is released from the base as shown in Fig. D.
9. Dispose the used filter in your normal refuse.
10. Clean and rinse out the inside of the housing.



Fig. A



Fig. B-1

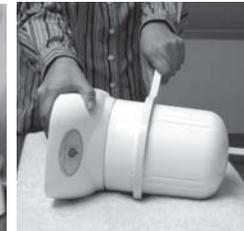


Fig. B-2



Fig. C



Fig. D

### INSTALLING THE NEW FILTER

11. Insert the new filter in the center port of the housing base, twisting slightly, as shown in Fig. D. Then push straight down on the filter to assure that it is firmly in place.
12. Reconnect the housing top with base (Fig. C).
13. Hand-tighten the housing top by turning it clockwise. The top should be securely connected to the base. If necessary, use the hand tool, shipped with your unit, to tighten the top (Fig. B-1).
  - a. With the housing in an upright position, slide the hand tool over the top so that the ridges on the tool fit into the grooves on the housing top.
  - b. Applying steady pressure, turn clockwise to tighten. Hold the base in place on the countertop while turning the top.

### RE-STARTING YOUR WATER GUARDIAN UNIT

14. Using a paper towel or cloth, dry off all connections. Also, dry off the drinking water unit.
15. Ensure that all connections are tight (DO NOT OVER TIGHTEN).
16. To purge all air from the unit, turn the housing **upside down** and then turn on the water. Push the bypass lever of the diverter to start the flow of water through the unit. Allow the water to run through the unit and filtered water spout for one minute. Then close the bypass lever and shut off the water at the faucet.
17. Turn the unit right side up and place it on your counter and check all connections to confirm that there are no leaks.
18. Turn on the water and push the bypass lever of the diverter valve to again start the flow of water through the unit.
19. Allow water to run through the unit to waste for approximately 30 minutes to fully flush the filter and charge the carbon.
20. Push the bypass lever inward to shutoff the flow of water through the Aqua Dome System. Then shut off the water at your faucet and check for leaks.



You now can resume using your Multipure Drinking Water System for all your drinking water, cooking, and food preparation needs.

**For assistance, please call your independent dealer**

## VI. Performance Certification



### Multipure Drinking Water Systems Product Performance Tested and Certified

Multipure Drinking Water Systems have been tested and certified by NSF International to comply with NSF/ANSI Standards 42 and 53 for the reduction of specific contaminants being considered as established or potential health hazards.

#### Standard 42, Aesthetic Effects

System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of:

- Chloramine
- Chlorine taste and odor
- Nominal Particulate reduction, class I

#### Standard 53, Health Effects

System tested and certified by NSF International against NSF/ANSI Standard 53 for the reduction of:

- |           |                    |
|-----------|--------------------|
| Asbestos  | Chlordane          |
| Cyst      | Lead               |
| Mercury   | MTBE               |
| PCB       | Toxaphene          |
| Turbidity | VOC (listed below) |

#### Volatile Organic Chemicals (VOC) includes:

##### Disinfection By-Products

- chloropicrin
- haloacetonitriles (HAN):
  - bromochloroacetonitrile
  - dibromoacetonitrile
  - dichloroacetonitrile
  - trichloroacetonitrile
- haloketones (HK):
  - 1,1-dichloro-2-Propanone
  - 1,1-trichloro-2-Propanone
- trihalomethanes (THMs; TTHMs):
  - bromodichloromethane
  - bromoform
  - chloroform
  - dibromochloromethane
  - tribromoacetic acid

##### Chemicals

- benzene
- carbon tetrachloride
- chlorobenzene
- 1,2-dichloroethane
- 1,1-dichloroethylene
- cis-1,2-dichloroethylene
- 1,2-dichloropropane
- cis-1,3-dichloropropylene
- ethylbenzene
- hexachlorobutadiene
- hexachlorocyclopentadiene
- simazine
- styrene
- 1,1,2,2-tetrachloroethane
- tetrachloroethylene
- toluene
- trans-1,2-dichloroethylene
- 1,2,4-trichlorobenzene
- 1,1,1-trichloroethane
- 1,1,2-trichloroethane
- trichloroethylene
- xylene (total)

##### Herbicides

- alachlor
- atrazine
- 2,4-D
- dinoseb
- pentachlorophenol
- 2,4,5-TP (silvex)

##### Pesticides

- carbofuran
- dibromochloropropane (DBCP)
- o-dichlorobenzene
- p-dichlorobenzene
- endrin
- ethylene dibromide (EDB)
- heptachlor
- heptachlor epoxide
- lindane
- methoxychlor



#### Filter Model CBTAD

Filter capacity is 750 gallons, which is approximately a 12 month supply depending on local water conditions.

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.

## VII. Performance Data Sheet

### Performance Data Sheet



Multipure Drinking Water Systems have been tested and certified under NSF/ANSI Standard Nos. 53 as shown below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 53, Health Effects.



#### For Model No. MPADC

Substance	Percent Reduction <sup>**</sup>	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
ALACHLOR*	>98%	0.05	0.001
ASBESTOS	>99.9%	10 <sup>7</sup> to 10 <sup>8</sup> fibers/L; fibers greater than 10 micrometers in length	99% reduction requirement
ATRAZINE*	>97%	0.1	0.003
BENZENE*	>99%	0.081	0.001
BROMODICHLOROMETHANE (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
BROMOFORM (TTHM)*	>99.8%	0.300 +/- 0.30	0.015
CARBOFURAN (Furadan)*	>99%	0.19	0.001
CARBON TETRACHLORIDE*	98%	0.078	0.0018
CHLORDANE	>99.5%	0.04 +/-10%	0.002
CHLOROBENZENE (Monochlorobenzene)*	>99%	0.077	0.001
CHLOROPICRIN*	99%	0.015	0.0002
CHLOROFORM (TTHM)* (surrogate chemical)	>99.8%	0.300 +/- 0.30	0.015
Cryptosporidium (CYST)	99.95%	minimum 50,000/mL	99.95%
CYST (Giardia; Cryptosporidium; Entamoeba; Toxoplasma)	99.95%	minimum 50,000/mL	99.95%
2, 4-D*	98%	0.110	0.0017
DBCP (see Dibromochloropropane)*	>99%	0.052	0.00002
1,2-DCA (see 1,2-DICHLOROETHANE)*	95%	0.088	0.0048
1,1-DCE (see 1,1-DICHLOROETHYLENE)*	>99%	0.083	0.001
DIBROMOCHLOROMETHANE (TTHM; Chlorodibromomethane)*	>99.8%	0.300 +/- 0.30	0.015
DIBROMOCHLOROPROPANE (DBCP)*	>99%	0.052	0.00002
o-DICHLOROENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.001
p-DICHLOROENZENE (para-Dichlorobenzene)*	>98%	0.04	0.001
1,2-DICHLOROETHANE (1,2-DCA)*	95%	0.088	0.0048
1,1-DICHLOROETHYLENE (1,1-DCE)*	>99%	0.083	0.001
CIS-1,2-DICHLOROETHYLENE*	>99%	0.17	0.0005
TRANS-1,2- DICHLOROETHYLENE*	>99%	0.086	0.001
1,2-DICHLOROPROPANE (Propylene Dichloride)*	>99%	0.08	0.001
CIS-1,3- DICHLOROPROPYLENE*	>99%	0.079	0.001
DINOSEB*	99%	0.17	0.0002
EDB (see ETHYLENE DIBROMIDE)*	>99%	0.044	0.00002
ENDRIN*	99%	0.053	0.00059
Entamoeba (see CYSTS)	99.95%	minimum 50,000/mL	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002
Furadan (see CARBOFURAN)*	>99%	0.19	0.001

**\*\*Percent reduction reflects actual performance of Multipure product as specifically tested (at 200% of capacity, i.e. 1500 gallons). Percent reduction shown for VOCs\* reflects the allowable claims for Volatile Organic Chemicals/Compounds as per Tables. Chloroform was used as a surrogate for VOC reduction claims: the Multipure Systems' actual reduction rate of Chloroform was >99.8% as tested (at 200% of capacity).**

**VII. Performance Data Sheet (continued)**

<b>Substance</b>	<b>Percent Reduction<sup>***</sup></b>	<b>Influent challenge concentration (mg/L unless specified)</b>	<b>Maximum permissible product water concentration (mg/L unless specified)</b>
Giardia Lamblia (see CYST)	>99.95%	minimum 50,000/mL	99.95%
<b>HALOACETONITRILES (HAN)*</b>			
<b>BROMOCHLOROACETONITRILE</b>	98%	0.022	0.0005
<b>DIBROMOACETONITRILE</b>	98%	0.024	0.0006
<b>DICHLOROACETONITRILE</b>	98%	0.0096	0.0002
<b>TRICHLOROACETONITRILE</b>	98%	0.015	0.0003
<b>HALOKETONES (HK):*</b>			
<b>1,1-DICHLORO-2-PROPANONE</b>	99%	0.0072	0.0001
<b>1,1,1-TRICHLORO-2-PROPANONE</b>	96%	0.0082	0.0003
<b>HEPTACHLOR*</b>	>99%	0.25	0.00001
<b>HEPTACHLOR EPOXIDE*</b>	98%	0.0107	0.0002
<b>HEXACHLOROBUTADIENE (Perchlorobutadiene)*</b>	>98%	0.044	0.001
<b>HEXACHLOROCYCLOPENTADIENE*</b>	>99%	0.060	0.000002
<b>LEAD (pH 6.5)</b>	>99.3%	0.15 +/- 10%	0.010
<b>LEAD (pH 8.5)</b>	>99.3%	0.15 +/- 10%	0.010
<b>LINDANE*</b>	>99%	0.055	0.00001
<b>MERCURY (pH 6.5)</b>	>99%	0.006 +/- 10%	0.002
<b>MERCURY (pH 8.5)</b>	>99%	0.006 +/- 10%	0.002
<b>METHOXYCHLOR*</b>	>99%	0.050	0.0001
Methylbenzene (see TOLUENE)*	>99%	0.078	0.001
Monochlorobenzene (see CHLOROBENZENE)*	>99%	0.077	0.001
<b>MTBE (methyl tert-butyl ether)</b>	>96.6%	0.015 +/- 20%	0.005
<b>POLYCHLORINATED BIPHENYLS (PCBs , Aroclor 1260)</b>	>99.9%	0.01 +/- 10%	0.0005
PCE (see TETRACHLOROETHYLENE)*	>99%	0.081	0.001
<b>PENTACHLOROPHENOL*</b>	>99%	0.096	0.001
Perchlorobutadiene (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
Propylene Dichloride (see 1,2-DICHLOROPROPANE)*	>99%	0.080	0.001
<b>SIMAZINE*</b>	>97%	0.120	0.004
Silvex (see 2,4,5-TP)*	99%	0.270	0.0016
<b>STYRENE (Vinylbenzene)*</b>	>99%	0.15	0.0005
1,1,1-TCA (see 1,1,1-TRICHLOROETHANE)*	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)*	>99%	0.180	0.0010
<b>1,1,2,2- TETRACHLOROETHANE*</b>	>99%	0.081	0.001
<b>TETRACHLOROETHYLENE*</b>	>99%	0.081	0.001
<b>TOLUENE (Methylbenzene)*</b>	>99%	0.078	0.001
<b>TOXAPHENE</b>	>92.9%	0.015 +/- 10%	0.003
Toxoplasma (see CYSTS)	99.95%	minimum 50,000/mL	99.95%
<b>2,4,5-TP (Silvex)*</b>	99%	0.270	0.0016
<b>TRIBROMOACETIC ACID*</b>		0.042	0.001
<b>1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)*</b>	>99%	0.160	0.0005
<b>1,1,1-TRICHLOROETHANE (1,1,1-TCA)*</b>	95%	0.084	0.0046
<b>1,1,2-TRICHLOROETHANE*</b>	>99%	0.150	0.0005
<b>TRICHLOROETHYLENE (TCE)*</b>	>99%	0.180	0.0010
<b>TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)</b>	>99.8%	0.300 +/- 0.30	0.015
<b>TURBIDITY</b>	>99%	11 +/- 1 NTU	0.5 NTU
TRICHLOROBENZENE)*	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)*	>99%	0.150	0.0005
<b>XYLENES (TOTAL)*</b>	>99%	0.070	0.001

## VII. Performance Data Sheet (continued)

### NSF/ANSI 42 - Aesthetic Effects

The System has been tested according to NSF/ANSI Standard 42 for the reduction of the following substances. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system.

Substance	Percent Reduction <sup>***</sup>	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
CHLORAMINE as Aesthetic Effect (As Monochloramine)	>97%	3.0 mg/L +/- 10%	0.5 mg/L
CHLORINE as Aesthetic Effect	99%	2.0 Mg/L +/- 10%	> or = 50%
PARTICULATE, (Nominal Particulate Reduction, Class I, Particles 0.5 TO <1 UM	Class I > 99%	At Least 10,000 particles/mL	> or = 85%

Note: This addresses the U.S. Environmental Protection Agency (EPA) Primary and Secondary Drinking Water Regulations in effect at its time of publication, they relate to Multipure's performance in conformance to the industry performance criteria. These regulations are continually being updated at the Federal level. Accordingly, this list of MCLs will be reviewed and amended when appropriate. Please see sales brochure for list of product certifications.

#### NOTES:

- Multipure Drinking Water Systems have been certified, as indicated, by NSF International for compliance to NSF/ANSI Standard Nos. 42 & 53.
- The Multipure Drinking Water Systems have been certified by the State of California Department of Public Health for the reduction of specific contaminants listed herein.
- Chloroform was used as a surrogate for claims of reduction of VOCs. Multipure Systems tested at >99.8% actual reduction of Chloroform. Percent reduction shown herein reflects the allowable claims for VOCs as per tables in the Standard.
- 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.**
- Filter life will vary in proportion to the amount of water used and the level of impurities in the water being processed. For optimum performance, it is essential that the filter be replaced on a regularly scheduled basis as follows: (a) annually; (b) when the unit's rated capacity has been reached; (c) the flow rate diminishes; or (d) the filter becomes saturated with bad tastes and odors.
- Multipure's Water Guardian Housing is warranted for a lifetime (provided that filter has been changed at least once per year). All exterior hoses and attachments to the System are warranted for one year. Please see the Owner's Manual for complete product guarantee and warranty information.
- Please see the Owner's Manual for installation instructions and operating procedures.
- In compliance with New York law, it is recommended that before purchasing a water treatment system, NY residents have their water supply tested to determine their actual water treatment needs. Please compare the capabilities of the Multipure unit with your actual water treatment needs.
- While testing was performed under standard laboratory conditions, actual performance may vary.
- The list of substances which the treatment device reduces does not necessarily mean that these substances are present in your tap water.



Model No: MPADC

Operational Specifications	MPADC
Approximate Service Capacity	750 gallons
Replacement Filter Type Model No.	CBTAD
Approximate Flow Rate @ 60 psi	0.75 gpm
Maximum Water Pressure	100 psi/7.0 kg/cm <sup>2</sup>
Minimum Water Pressure	30 psi/2.1 kg/cm <sup>2</sup>
Maximum Operating Temperature	100°F/38°C for cold water use only
Minimum Operating Temperature	32°F/0°C

## VIII. California Certification Department of Public Health

State of California  
Department of Public Health  
Water Treatment Device  
Certificate Number  
05 - 1736

Date Issued: October 20, 2010

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**Trademark/Model Designation**

Multi-Pure MPAD

Multi-Pure MPADC

**Replacement Elements**

CB6AD

CBTAD

**Manufacturer:** Multi-Pure Drinking Water Systems

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The water treatment device(s) listed on this certificate have met the testing requirements pursuant to Section 116830 of the Health and Safety Code for the following health related contaminants:

**Microbiological Contaminants and Turbidity**

Cysts

Turbidity

**Inorganic/Rediochemical Contaminants**

Asbestos

Lead

Mercury

**Organic Contaminants**

Chloroform

MTBE

PCB

Toxaphene

VOCs

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**Rated Service Capacity:** 750 gals

**Rated Service Flow:** 0.75 gpm

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**Conditions of Certification:**

Do not use where water is microbiologically unsafe or with water of unknown quality, except that cysts are certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

## IX. 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 <sub>2</sub> 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 <sub>2</sub> 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.
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.	For optimum performance and to maintain your warranty, it is essential that the filter be replaced when the first of the following occurs: (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 water pressure is too low, adjust water pressure to 60 psi. If other faucets or sprinklers are on turn off other running water.
Water is black	Carbon dust	Allow water to run through the unit to waste for approximately 30 minutes to flush the filter.

## Maintenance Problems

### Flushing / disinfecting the unit housing:

Multipure 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.
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 (Section V).
11. Follow instructions in Sec. V with the replacement filter for reconnecting and flushing your unit.

**Stuck / Sticking Diverter Valve:** Normally caused by a mineral (calcium) buildup around the diverter stem. 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. Pull the diverter valve stem 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 for independent dealer**

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

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

## X. Questions & Answers

Question	Answer	Comments
<b>Will low pH or acid water affect the Multipure filter?</b>	No.	Mineral components expressed as acidity and alkalinity determine pH. Neutrality is 7; below 7 is acidity; above 7 is alkalinity.
<b>Does deionized water or soft water have any affect on Multipure water?</b>	No.	N/A
<b>Can the Multipure System be connected to an automatic ice-maker?</b>	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" (MC445) on the order form.
<b>Can the Multipure System be used during an emergency or when the water is turned off?</b>	Yes, you can hand pump or siphon water through the Multipure System during an emergency. CAUTION -- the Multipure 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 Multipure System will remove this solution from the water. Hand pump kits (D600) are available from Multipure.
<b>What causes "white" particles to appear in Multipure water when it is frozen or boiled?</b>	The natural minerals in the Multipure 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 Multipure on request.
<b>Why does the Multipure System reduce Volatile Organic Chemicals, but not natural minerals?</b>	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 Multipure 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.
<b>Should sediment be removed with a standard filter first?</b>	In areas with excessive sedimentation, prefiltration will help extend the operational efficiency of the Multipure cartridge; however, in most areas this is not necessary.	The Multipure System contains a double filter. The outside material is a prefilter that helps protect the solid carbon block surface from prematurely clogging with large sediment.
<b>Why is the compressed activated carbon block filtration system more efficient than activated carbon (loose granular) systems?</b>	Multipure'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.
<b>What is the difference between a "water softener" and the Multipure Drinking Water System?</b>	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. Multipure 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 Multipure Drinking Water System.
<b>Can the Multipure System be used on untreated water?</b>	If water source is questionable, it should be disinfected prior to use. Add ¼ tsp of household bleach per gallon of water; the Multipure System will remove this solution from the water. Consult your nearest public water utility for assistance or guidelines on proper treatment of untreated water.	Multipure 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.

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

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

**To order a Replacement Filter  
Call your Authorized Independent Dealer**

