

# Performance Data Sheet



Multipure Drinking Water Systems have been tested and certified under NSF/ANSI Standard 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 Nos. CBAsSB and CBAsSC

Substance	Percent Reduction**	Influent challenge concentration	Maximum permissible product water concentration
ALACHLOR*	>98%	0.05	0.001
ARSENIC (pentavalent As (V); As (+5); arsenate @ 6.5 pH)	>99.9%	0.050 +/- 10%	0.010
ARSENIC (pentavalent As (V); As (+5); arsenate @ 8.5 pH)	>95.8%	0.050 +/- 10%	0.010
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%	0.3	0.015
BROMOFORM (TTHM)*	>99.8%	0.3	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%	0.45 +/- 20%	0.080
Cryptosporidium (CYST)	>99.99%	minimum 50,000/L	99.95%
CYST (Giardia; Cryptosporidium; Entamoeba; Toxoplasma)	>99.99%	minimum 50,000/L	99.95%
2, 4-D*	98%	0.11	0.00017
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	0.015
DIBROMOCHLOROPROPANE (DBCP)*	>99%	0.052	0.00002
o-DICHLOROBENZENE (1,2 Dichlorobenzene)*	>99%	0.08	0.001
p-DICHLOROBENZENE (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)	99.99%	minimum 50,000/L	99.95%
ETHYLBENZENE*	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)*	>99%	0.044	0.00002

\*\*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).

Substance	Percent Reduction**	Influent challenge concentration	Maximum permissible product water concentration
Furadan (see CARBOFURAN)*	>99%	0.19	0.001
Giardia Lamblia (see CYST)	>99.99%	minimum 50,000/L	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%	0.08	0.0004
<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>	>99.99%	0.15 +/- 10%	0.010
<b>LEAD (pH 8.5)</b>	>99.99%	0.15 +/- 10%	0.010
<b>LINDANE*</b>	>99%	0.055	0.00001
<b>MERCURY (pH 6.5)</b>	>99.99%	0.006 +/- 10%	0.002
<b>MERCURY (pH 8.5)</b>	>99.99%	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>	>97%	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)	99.99%	minimum 50,000/L	99.95%
<b>2,4,5-TP (Silvex)*</b>	99%	0.270	0.0016
<b>TRIBROMOACETIC ACID*</b>	98%	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%	0.45 +/- 20%	0.080
<b>TURBIDITY</b>	>99%	11 +/- NTU	0.5 NTU
Unsym-Trichlorobenzene (see 1,2,4-TRICHLOROBENZENE)*	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)*	>99%	0.150	0.0005
<b>XYLENES (TOTAL)*</b>	>99%	0.070	0.001

## 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**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
<b>CHLORAMINE as Aesthetic Effect</b> (As Monochloramine)	>98.3%	3.0 mg/L +/- 10%	0.5 mg/L
<b>CHLORINE as Aesthetic Effect</b>	99%	2.0 Mg/L +/- 10%	> or = 75%
<b>PARTICULATE</b> , (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, as 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 visit our website for list of product certifications.

### NOTES:

1. Multipure Drinking Water Systems have been certified, as indicated, by NSF International for compliance to NSF/ANSI Standard Nos. 42 & 53.
2. 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.
3. 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.
4. **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.**
5. 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.
6. Multipure Drinking Water System Housings are 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.
7. Please see the Owner's Manual for installation instructions and operating procedures.
8. 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.
9. While testing was performed under standard laboratory conditions, actual performance may vary.
10. The list of substances which the treatment device reduces does not necessarily mean that these substances are present in your tap water.

# California Certification Department of Public Health CBAsSB and CBAsSC

## Facts About Arsenic (in compliance with NSF Standard 53)

Arsenic (abbreviated As) is a naturally occurring contaminant found in many ground waters. Arsenic in water has no color, taste, or odor, and must be measured by lab testing. Public water utilities must have their water tested for arsenic, and their results can be obtained from your local water utility. If you have your own well, the water can be tested; your local health department or state environmental health agency can provide a list of certified testing labs. Information about arsenic in water can be found on the Internet at the U.S. Environmental Protection Agency website, at <http://www.epa.gov/safewater/arsenic.html>.

There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Specially formulated Carbon Block systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

The Multipure CBAsSB and CBAsSC Models are designed to remove only pentavalent arsenic. They will not convert trivalent arsenic to pentavalent arsenic. The system may remove some trivalent arsenic, however, it has not been evaluated for its ability to remove trivalent arsenic. The system was tested in a laboratory to remove pentavalent arsenic. Under lab conditions, as defined in ANSI/NSF Standard 53, the system reduced 0.050 mg/L (ppm) pentavalent arsenic to 0.010 mg/L (ppm) (the U.S. EPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly.

The Carbon Block filter component of the Multipure system must be replaced as indicated in this Owner's Manual to ensure the system will continue to remove arsenic and other contaminants.

State of California  
Department of Health Services  
Water Treatment Device  
Certificate Number

03 - 1569

Date Issued: May 22, 2003

Trademark/Model Designation	Replacement Elements	Capacity
Multi-Pure MP880SB	CB11As	600 gal
Multi-Pure MP880SC	CB11As	600 gal
Multi-Pure MP880SI	CB11As	600 gal
Multi-Pure MP880EL	CB11As	960 gal

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

**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/Radiological Contaminants**

Arsenic V (50 ppb)  
Asbestos  
Lead  
Mercury

**Organic Contaminants**

Chlordane  
MTBE  
PCB  
Toxaphene  
VOCs

Alachlor  
Bromodichloromethane<sup>1</sup>  
Carbon Tetrachloride  
2,4-D  
o-Dichlorobenzene  
1,2-Dichloroethane  
cis-1,2-Dichloroethylene  
Dinoseb  
Ethylbenzene  
Hexachlorocyclopentadiene  
Methoxychlor  
Styrene  
1,1,2,2-Tetrachloroethane  
1,1,1-Trichloroethane  
m-Xylene

Atrazine  
Bromoform<sup>1</sup>  
Chlorobenzene  
DBCP  
p-Dichlorobenzene  
trans-1,2-Dichloroethylene  
1,2-Dichloropropane  
EDB  
Heptachlor  
Hexachlorobutadiene  
Pentachlorophenol  
2,4,5-TP (Silvex)  
Toluene  
1,1,2-Trichloroethane  
o-Xylene

Benzene  
Carbofuran  
Chloroform<sup>1</sup>  
Dibromodichloromethane<sup>1</sup>  
1,1-Dichloroethane  
1,1-Dichloroethylene  
cis-1,3-Dichloropropylene  
Endrin  
Heptachlor Epoxide  
Lindane  
Simazine  
Tetrachloroethylene  
1,2,4-Trichlorobenzene  
Trichloroethylene  
p-Xylene

<sup>1</sup>Trihalomethanes

**Rated Service Flow:** 1.0 gpm

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