Aquapremier

Multipure's Aquapremier Drinking Water System features not just Multipure's Solid Carbon Block technology but also includes a specially-developed Nanomesh media that provides for the removal of virus and bacteria. The Aquapremier features a stainless steel housing and is designed for both versatility and additional contaminant reduction performance.

Specifications

Model Name	AQUAPREMIER
Replacement Filter Type	CBXT
Filter Capacity	340 Gallons
Flow Rate	0.71 gpm
Housing Composition	Stainless Steel
Inlet	1/8" NPT
Outlet	1/8" NPT
System Size	11" h x 5.75" w
Working Pressure Range	30 psi (2.1 kg/cm^2) to 100 psi (7.0 kg/cm^2)
Operating Temperature Range	32° F (0° C) to 100° F (38° C) - for cold water use only
Housing Warranty	Lifetime

The Aquapremier is proven performance, third-party tested and verified: NSF-certified to treat contaminants of Aesthetic Concern (Standard 42). NSF-certified to treat contaminants of Health Concern (Standard 53). NSF-certified to treat Emerging Contaminants (Standard 401). NSF-certified as a microbiological purifier (NSF P231).

System Options

Base System - The base Aquapremier system can be used in-line with other existing hardware (e.g., existing faucet, ice maker, etc.), but includes no additional plumbing hardware. It can utilize compatible below-sink and countertop parts and accessories.

Below-Sink Kit - This installation kit includes a stand-alone chrome faucet and the necessary hardware to attach the system to a cabinet wall below the sink. The system connects to the cold water line with an included Adapta Valve, and the faucet requires a 0.5" hole available in the countertop or sink for installation.

A below-sink Aquapremier is intended for a more permanent installation, although it can be removed and converted for countertop use with the optional countertop kit. The below-sink Aquapremier is designed to mount on the side of the cabinet, but can rest on the floor of the cabinet with an optional acrylic base (MC840).

Countertop Kit - The standard countertop installation kit includes a dual-hose diverter valve and an acrylic base that allows the system to sit on top of the counter next to the sink. The system connects to the sink faucet with the dual-hose diverter valve, outputting filtered water from a spigot on the diverter valve itself. Filtered or unfiltered water can be selected by a push-button on the diverter valve.

Single Hose Diverter Kit - This installation kit includes a single-hose diverter kit and an acrylic base that allows the system to sit on top of the counter next to the sink. The system connects to the sink faucet with the single-hose diverter valve, outputting filtered water from a faucet attached to the top of the system housing. Filtered or unfiltered water can be selected by a push-button on the diverter valve.

Below-Sink Kit
(Faucet Included)

Countertop Kit
(Dual-hose Diverter Valve Included)

Single Hose Diverter Kit
(Single-hose Diverter Valve Included)

NSF Performance Data

NSF/ANSI 42 - Aesthetic Effects

Multipure's Drinking Water Systems, the Aquapremier 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.

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
CHLORAMINE	>97.5%	3.0 ± 10%	0.5000
CHLORINE	>97.5%	2.0 ± 10%	≥ 50%*
Particulate Class I	99.8%	min. 10,000 particles/mL	≥ 85%*

NSF/ANSI 53 - Health Effects

The Aquapremier has been tested according to NSF/ANSI Standard 53 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.

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
ALACHLOR	>98%	0.050	0.001
ARSENIC (pH 6.5)	>98%	0.050 ± 10%	0.010
ARSENIC (pH 8.5)	97.6%	0.050 ± 10%	0.010
ASBESTOS	>99%	$10^7$to 10^8filbers/L	99%*
ATRAZINE**	>97%	0.100	0.003
BENZENE**	>99%	0.081	0.001
BROMODICHLOROMETHANE (TTHM)**	>99.8%	0.300	0.015
BROMOFORM (TTHM)**	>99.8%	0.300	0.015
CARBOFURAN (Furadan)**	>99%	0.19	0.001
CARBON TETRACHLORIDE**	98%	0.078	0.0018
CHLORDANE	>99.5%	0.040 ± 10%	0.002
CHLOROBENZENE (Monochlorobenzene)**	>99%	0.077	0.001
CHLOROPICRIN**	99%	0.015	0.0002
CHLOROFORM (TTHM)* (surrogate chemical)	>99.8%	0.300	0.015
Cryptosporidium (CYST)	>99.95%	minimum 50,000/L	99.95% reduction requirement
CYST	>99.95%	min. 50,000/L	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

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
DIBROMOCHLOROMETHANE**	>99.8%	0.300	0.015
DIBROMOCHLOROPROPANE (DBCP)**	>99%	0.052	0.00002
o-DICHLOROBENZENE (1,2 Dichlorobenzene)**	>99%	0.080	0.001
p-DICHLOROBENZENE (para-Dichlorobenzene)**	>98%	0.040	0.001
1,2-DICHLOROETHANE (1,2-DCA)**	95%	0.088	0.0048
1,1-DICHLOROETHYLENE (1,1-DCE)**	>99%	0.083	0.001
1,2-DICHLOROPROPANE**	>99%	0.080	0.001
CIS-1,3- DICHLOROPROPYLENE**	>99%	0.079	0.001
DINOSEB*	99%	0.170	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/L	99.95% reduction requirement
ETHYLBENZENE**	>99%	0.088	0.001
ETHYLENE DIBROMIDE (EDB)**	>99%	0.044	0.00002
Furadan (see CARBOFURAN)**	>99%	0.19	0.001
Giardia Lamblia (see CYST)	>99.95%	minimum 50,000/L	99.95% reduction requirement
HALOACETONITRILES (HAN)**			
BROMOCHLOROACETONITRILE	98%	0.022	0.0005
DIBROMOACETONITRILE	98%	0.024	0.0006
DICHLOROACETONITRILE	98%	0.0096	0.0002
TRICHLOROACETONITRILE	98%	0.015	0.0003
HALOKETONES (HK):**			
1,1-DICHLORO-2-PROPANONE	99%	0.0072	0.0001
1,1,1-TRICHLORO-2-PROPANONE	96%	0.0082	0.0003
HEPTACHLOR**	>99%	0.25	0.00001
HEPTACHLOR EPOXIDE**	98%	0.0107	0.0002
HEXACHLOROBUTADIENE**	>98%	0.044	0.001
HEXACHLOROCYCLOPENTADIENE**	>99%	0.060	0.000002
LEAD (pH 6.5)	>99.7%	0.15 ± 10%	0.010
LEAD (pH 8.5)	>99.3%	0.15 ± 10%	0.010
LINDANE*	>99%	0.055	0.00001
MERCURY (pH 6.5)	>96.6%	0.006 ± 10%	0.002
MERCURY (pH 8.5)	>96.7%	0.006 ± 10%	0.002
METHOXYCHLOR*	>99%	0.050	0.0001
Methylbenzene (see TOLUENE)**	>99%	0.078	0.001
Monochlorobenzene (see CHLOROBENZENE)**	>99%	0.077	0.001
MTBE (methyl tert-butyl ether)	97%	0.015 ± 20%	0.005
POLYCHLORINATED BIPHENYLS (PCBs , Aroclor 1260)	>96.8%	0.01 +/- 10%	0.0005
PCB	>96.8%	0.01 ± 10%	0.0005
PCE (see TETRACHLOROETHYLENE)**	>99%	0.081	0.001
PENTACHLOROPHENOL**	>99%	0.096	0.001
Perchlorobutadiene (see HEXACHLOROBUTADIENE)*	>98%	0.044	0.001
PFOA/PFOS	>95.5%	0.0015 ± 10%	0.0001
Propylene Dichloride (see 1,2 -DICHLOROPROPANE)*	>99%	0.080	0.001
SIMAZINE*	>97%	0.120	0.004
Silvex (see 2,4,5-TP)**	99%	0.270	0.0016
STYRENE (Vinylbenzene)**	>99%	0.150	0.0005

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
1,1,1-TCA (see 1,1,1 - TRICHLOROETHANE)**	95%	0.084	0.0046
TCE (see TRICHLOROETHYLENE)**	>99%	0.180	0.0010
1,1,2,2- TETRACHLOROETHANE**	>99%	0.081	0.001
TETRACHLOROETHYLENE**	>99%	0.081	0.001
TOLUENE (Methylbenzene)**	>99%	0.078	0.001
TOXAPHENE	>95%	0.015 ± 10%	0.003
Toxoplasma (see CYSTS)	99.95%	minimum 50,000/L	99.95% reduction requirement
2,4,5-TP (Silvex)**	99%	0.270	0.0016
TRIBROMOACETIC ACID**	>98%	0.042	0.001
1,2,4 TRICHLOROBENZENE (Unsymtrichlorobenzene)*	>99%	0.160	0.0005
1,1,1-TRICHLOROETHANE (1,1,1-TCA)**	95%	0.084	0.0046
1,1,2-TRICHLOROETHANE*	>99%	0.150	0.0005
TRICHLOROETHYLENE (TCE)*	>99%	0.180	0.0010
TRIHALOMETHANES (TTHM) (Chloroform; Bromoform; Bromodichloromethane; Dibromochloromethane)	95%	0.300	0.015
TURBIDITY	99.0%	11 ± 1 NTU	0.5 NTU
Unsym-Trichlorobenzene**	>99%	0.160	0.0005
Vinylbenzene (see STYRENE)**	>99%	0.150	0.0005
XYLENES (TOTAL)**	>99%	0.070	0.001

Standard 401- Emerging Contaminants

The Aquapremier has been tested according to NSF/ANSI 401 for reduction of the substances listed 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 the NSF/ANSI 401.

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	
Microplastics	99.8%	min. 10,000 particles/mL	≥ 85%
Group I			
Atenolol	>96.4%	200 ± 20%	0.00003
Carbamazepine	>98.5%	1400 ± 20%	0.00020
DEET	>98.6%	1401 ± 20%	0.00020
Linuron	>96.5%	140 ± 20%	0.00002
Meprobamate	>95.3%	400 ± 20%	0.00006
Metolachlor	>98.7%	1400 ± 20%	0.00020
Trimethoprim	>96.8%	140 ± 20%	0.00002
Group II			
TCEP (Group 2)	>98.0%	5000 ± 20%	0.00070
TCPP (Group 2)	>97.9%	5000 ± 20%	0.00070
Group III			
Bisphenol A (Group 3)	>99.0%	2000 ± 20%	0.00030
Estrone (Group 3)	>96.6%	140 ± 20%	0.00002
Ibuprofen (Group3)	>95.1%	400 ± 20%	0.00006

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Maximum permissible product water concentration (mg/L unless specified)
Naproxen (Group 3)	>96.4%	140 ± 20%	0.00002
Nonyl phenol (Group 3)	>95.6%	1400 ± 20%	0.00020
Phenytoin (Group 3)	>95.4%	200 ± 20%	0.00003

NSF/ANSI Protocol P231 - Viruses & Bacteria

The Aquapremier has been tested and certified according to NSF Protocol P231 as a microbiological water purifier, able to remove the presence of viruses and bacteria from drinking water.

Contaminant	Percent Reduction**	Influent challenge concentration (mg/L unless specified)	Minimum Log ReductionRequirement
Bacteria, R. Terringena (ATCC-33257)	≥ 99.9999%	2.8×10^7/100 mL	6 log
Virus, MS2 (ATCC-15597-B1)	≥ 99.99%	4.3×10^4/mL	4 log

Footnotes

*Chloroform was used as a surrogate for claims of reduction of Volatile Organic Chemicals (VOC). CB Tech 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. **Percent reduction reflects actual performance of the CB Tech product as specifically tested (at 120% of capacity). 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: CB Tech systems tested at >99.8% actual reduction of Chloroform (at 120% of capacity). ***NSF Standard 401 has been deemed as "incidental contaminants/emerging compounds". Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels. While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.

1. **This system is not intended to convert wastewater or raw sewage into drinking water.**
2. Multipure Drinking Water Systems have been certified, as indicated, by NSF International for compliance to NSF/ANSI Standard Nos. 42, 53, 401 and Protocol P231. Multipure Drinking Water Systems have been certified by the State of California Department of Public Health for the reduction of specific contaminants.
3. 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.
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. When first installing or replacing the filter cartridge, flush water through the cartridge for 15 minutes prior to use.
6. 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 filters. Upon your return, reconnect the filters 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 10 minutes; then continue use as normal.
7. Multipure Drinking Water System housings are warranted for a Lifetime (provided that the filter be replaced at least once a year). All exterior hoses and attachments to the System are warranted for defects in material and workmanship for one year. Please see the Owner's Manual for complete product guarantee and warranty information.
8. Please see the Owner's Manual for installation instructions and operating procedures.
9. 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.
10. While testing was performed under standard laboratory conditions, actual performance may vary.
11. The list of substances which the treatment device reduces does not necessarily mean that these substances are present in your tap water.
12. Multipure's Aquapremier have been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.050 mg/L or less. This system reduces pentavalent arsenic, but may not reduce other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic.
13. The compounds certified under NSF/ANSI 401 have been deemed as incidental contaminants/emerging compounds. Incidental contaminants are those that have been detected in drinking water supplies at trace levels. While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.
14. The system and installation to comply with state and local laws and regulations.
15. Spent adsorption media will not be regenerated and used.
16. WARNING: This system is for use on water supplies that have been treated to public water systems standards. This system has been tested to demonstrate effective reduction of microcystins, however, in the event of a reported cyanotoxin event in your water supply, other cyanotoxins may be present in the drinking water which may not be effectively reduced by this system. In the event of a cyanotoxin notification, follow the recommendations of your drinking water authority.

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