
Performance Data

Model WHAFFS Kitchen & Bath Water Filtration System

IMPORTANT NOTICE: Read this performance data and compare the capabilities of this unit with your actual water treatment needs. It is recommended that, before purchasing a water treatment unit, you have your water supply tested to determine your actual water treatment needs. This filter system is designed to be used for the reduction of the performance claims listed below. Do not use where water 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. While testing was performed under standard laboratory conditions, actual performance of this system may vary based on local water conditions. Some or all of the contaminants reduced by this unit may not be in your water supply. See elsewhere in this owner's manual for further instructions on filter cartridge replacement, system installation, operating procedures, and warranty. The maintenance instructions must be followed for the product to perform as indicated below.

General Information

This system has been tested according to NSF/ANSI 42, 53 and 401 for reduction of substances listed above. 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 42, 53 and 401. The testing was performed using spiked tap water at a flow rate of 2.2 gallons per minute (8.3 L/min.), pH of 7.5 ± 0.5 , pressure of 60 psig, and temperature of $68 \pm 5^\circ\text{F}$.

This product is protected by U.S. patent no's: 6,866,704; 6872.311; 7,276,166; 7,296,691; 7,241,388; 7,287,650; 7,566,014; 8,056,733; applicable U.S. patent applications; foreign patents and foreign patent applications.

Installation Requirements

Pressure Range	30-100 psig (207-689 kPa)
Temperature Range	40-100°F (5-38°C)
Service Flow Rate.....	2.2 GPM (8.3 LPM)
Service Life.....	660 gallons (2,500 Liters)

Maintenance

Filter cartridges should be replaced every 660 gallons (2,500 liters) or six months, whichever comes first. For replacement elements, call 1-800-986-3223 or visit www.whirlpoolwatersolutions.com. Replacement filter prices will vary. Estimated cost of replacement filter cartridge WHAFFS ranges from \$70 to \$100.

The system is to be supplied only with cold water.

The system and installation shall comply with applicable state and local regulations.

Compounds certified under NSF/ANSI 401 have 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.

Spent adsorption media will not be regenerated and used.

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PERFORMANCE CLAIMS		
Substance	Required Influent Challenge Level (mg/L) ¹	Maximum Permissible Product Water Concentration (mg/L) ¹ or Reduction Requirement
Chlorine Taste & Odor	2.0 ±10%	≥50% reduction ³
Particulate, Class I (0.5 to <1 micron)	≥10,000 particles/mL	≥85% reduction ³
Microplastics (0.5 to <1 micron)	≥10,000 particles/mL	≥85% reduction ³
Asbestos	10 ⁷ to 10 ⁸ fibers/L (fibers > 10 microns in length)	99% reduction ³
Cyst	≥50,000 particles/mL	99.95% reduction ³
Lead	0.15 ±10%	0.005
Mercury	0.006 ±10%	0.002
PFOA / PFOS	0.0015 ±20%	0.00002
Substance	Required Influent Challenge Level (ng/L) ²	Maximum Permissible Product Water Concentration (ng/L) ²
Atenolol	200 ±20%	30
Bisphenol A	2,000 ±20%	300
Carbamazepine	1,400 ±20%	200
DEET	1,400 ±20%	200
Estrone	140 ±20%	20
Ibuprofen	400 ±20%	60
Linuron	140 ±20%	20
Meprobamate	400 ±20%	60
Metolachlor	1,400 ±20%	200
Naproxen	140 ±20%	20
Nonylphenol	1,400 ±20%	200
Phenyltoin	200 ±20%	30
Trimethoprim	140 ±20%	20
VOCs (by surrogate testing using chloroform)	Required Influent Challenge Level	Maximum Permissible Product Water Concentration
Alachlor	50 µg/L	1.0 µg/L
Atrazine	100 µg/L	3.0 µg/L
Benzene	81 µg/L	1.0 µg/L
Carbofuran	190 µg/L	1.0 µg/L
Carbon Tetrachloride	78 µg/L	1.8 µg/L
Chlorobenzene	77 µg/L	1.0 µg/L
Chloropicrin	15 µg/L	0.2 µg/L
2,4-D	110 µg/L	1.7 µg/L
Dibromochloropropane (DBCP)	52 µg/L	0.02 µg/L
o-Dichlorobenzene	80 µg/L	1.0 µg/L

1 Milligrams per liter, which is equivalent to parts per million (PPM).

2 Nanograms per liter, which is equivalent to parts per trillion (PPT).

3 NSF/ANSI 53 minimum percent reduction requirement. The acceptance level for this substance is based on percent reduction, rather than maximum effluent concentration.

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VOCs (by surrogate testing using chloroform)		Required Influent Challenge Level	Maximum Permissible Product Water Concentration
p-Dichlorobenzene		40 µg/L	1.0 µg/L
1,2-Dichloroethane		88 µg/L	4.8 µg/L
1,1-Dichloroethylene		83 µg/L	1.0 µg/L
cis-1,2-Dichloroethylene		170 µg/L	0.5 µg/L
trans-1,2-Dichloroethylene		86 µg/L	1.0 µg/L
1,2-Dichloropropane		80 µg/L	1.0 µg/L
cis-1,3-Dichloropropylene		79 µg/L	1.0 µg/L
Dinoseb		170 µg/L	0.2 µg/L
Endrin		53 µg/L	0.59 µg/L
Ethylbenzene		88 µg/L	1.0 µg/L
Ethyl Dibromide (EDB)		44 µg/L	0.02 µg/L
Haloacetonitriles (HAN)	Bromochloroacetonitrile	22 µg/L	0.5 µg/L
	Dibromoacetonitrile	24 µg/L	0.6 µg/L
	Dichloroacetonitrile	9.6 µg/L	0.2 µg/L
	Trichloroacetonitrile	15 µg/L	0.3 µg/L
Haloketones (HK)	1,1-dichloro-2-propanone	7.2 µg/L	0.1 µg/L
	1,1,1-trichloro-2-propanone	8.2 µg/L	0.3 µg/L
Heptachlor		25 µg/L	0.01 µg/L
Heptachlor Epoxide		10.7 µg/L	0.2 µg/L
Hexachlorobutadiene		44 µg/L	1.0 µg/L
Hexachlorocyclopentadiene		60 µg/L	0.002 µg/L
Lindane		55 µg/L	0.01 µg/L
Methoxychlor		50 µg/L	0.1 µg/L
Pentachlorophenol		96 µg/L	1.0 µg/L
Simazine		120 µg/L	4.0 µg/L
Styrene		150 µg/L	0.5 µg/L
1,1,2,2-Tetrachloroethane		81 µg/L	1.0 µg/L
Tetrachloroethylene		81 µg/L	1.0 µg/L
Toluene		78 µg/L	1.0 µg/L
2,4,5-TP (silvex)		270 µg/L	1.6 µg/L
Tribromoacetic acid		42 µg/L	1.0 µg/L
1,2,4-Trichlorobenzene		160 µg/L	0.5 µg/L
1,1,1-Trichloroethane		84 µg/L	4.6 µg/L
1,1,2-Trichloroethane		150 µg/L	0.5 µg/L
Trichloroethylene		180 µg/L	1.0 µg/L
Chloroform (THM)		300 µg/L	15 µg/L
Bromoform (THM)			
Bromodichloromethane (THM)			
Chlorodibromomethane (THM)			
Xylenes (total)		70 µg/L	1.0 µg/L