

Performance Data Sheet

SmartWater Filtration System-GE® MSWF Cartridge

This system has been tested and certified in filter model GE MSWF according to NSF/ANSI Standards 42 and 53 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 NSF/ANSI Standards 42 and 53.* (Safety factors built in for unmetered usage.)

Standard No. 42: Aesthetic effects

Parameter	USEPA MCL	Influent Challenge Concentration	Effluent		% Reduction		Min. Required Reduction
			Average	Maximum	Average	Maximum	
Chlorine Taste & Odor	—	2.0 mg/L ± 10%	0.06 mg/L	0.10 mg/L	97%	9.1%	≥ 50%
Particulate**	—	at least 10,000 particles/mL	408,333	670,000	95.5%	89.4%	≥ 85%

Standard No. 53: Health effects

Parameter	USEPA MCL	Influent Challenge Concentration	Effluent		% Reduction		Max. Permissible Product Water
			Average	Maximum	Average	Maximum	
Turbidity	1 NTU****	11 ± 1 NTU****	0.38 NTU	0.5 NTU	96.5%	95.4%	0.5 NTU
Cysts***	99.95% Reduction	Minimum 50,000 L	< 1 #/L	4 #/L	> 99.99%	> 99.99%	99.95%
Lead at pH 6.5	0.010 mg/L	0.15 mg/L ± 10%	< 1 ppb	< 1 ppb	99.3%	99.3%	0.010 mg/L
Lead at pH 8.5	0.010 mg/L	0.15 mg/L ± 10%	3.1 ppb	9.0 ppb	98.0%	95.5%	0.010 mg/L
Mercury at pH 6.5	0.002 mg/L	0.006 mg/L ± 10%	0.66 ppb	0.7 ppb	94.0%	89.6%	0.002 mg/L
Mercury at pH 8.5	0.002 mg/L	0.006 mg/L ± 10%	0.66 ppb	1.5 ppb	88.4%	73.7%	0.002 mg/L
Lindane	0.0002 mg/L	0.002 mg/L ± 10%	< 0.02 ppb	< 0.02 ppb	> 99.0%	> 99.0%	0.0002 mg/L
Atrazine	0.003 mg/L	0.009 mg/L ± 10%	< 0.5 ppb	< 0.05 ppb	> 93.9%	> 94.3%	0.003 mg/L
2, 4-D	0.070 mg/L	0.210 mg/L ± 10%	7.7 ppb	35 ppb	96.0%	82.0%	0.070 mg/L
Toxaphene	0.003 mg/L	0.015 mg/L ± 10%	< 1 ppb	< 1 ppb	> 92.9%	> 92.9%	0.003 mg/L
Benzene	0.005 mg/L	0.015 mg/L ± 10%	< 0.5 ppb	< 0.5 ppb	> 96.8%	> 97.0%	0.005 mg/L
Carbofuran	0.040 mg/L	0.080 mg/L ± 10%	< 1 ppb	1 ppb	> 98.7%	> 98.7%	0.040 mg/L
p-Dichlorobenzene	0.075 mg/L	0.225 mg/L ± 10%	< 0.5 ppb	< 0.5 ppb	> 99.7%	> 99.8%	0.075 mg/L
Asbestos	99% Reduction	10 ⁷ to 10 ⁸ fibers/L; fibers > 10µm in length	< 0.17 MF/L	< 0.17 MF/L	> 99%	> 99%	99% Reduction

*Tested using pressure of 60 psig; pH of 7.5 ± 0.5; temp of 68° ± 5°F (20° ± 2.5°C).

**Measurement in Particles/mL. Particles used were 0.5-1 microns.

***Based on the use of Cryptosporidium parvum oocysts.

****NTU=Nephelometric Turbidity Units.

Capacity 300 gallons (1,135 liters). Contaminant reduction determined by NSF testing.

Application Guidelines/Water Supply Parameters

Service Flow	0.9 gpm (3.14 lpm)
Water Supply	Potable Water

Water Pressure	40-120 psi (2.8-8.2 bar)
Water Temperature	33°F-100°F (0.6°C-38°C)

It is essential that the manufacturer's recommended installation, maintenance and filter replacement requirements be carried out for the product to perform as advertised. See insert for Warranty information.

Operating Specifications

- Pressure requirement: 40-120 psi (2.8-8.2 bar), non-shock
- Temperature: 33-100°F (0.6-38°C)
- Flow rate: 0.9 gpm (3.14 lpm)

General Installation/Operation/Maintenance Requirements

- Flush new cartridge at full flow for 4-1/2 gallons (about five minutes) to purge trapped air.
- Replace cartridge when flow becomes too slow.
- Protect from freezing by removing filter cartridge when temperatures are expected to drop below 40°F (4.4°C). Do not install systems in areas where ambient temperatures may go above 100°F or below 40°F. Do not install on a hot water supply.

Special Notices

- Installation instructions are included with the product when shipped.
- This drinking water system must be maintained according to manufacturer's instructions, including replacement of filter cartridges.
- 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.

- The contaminants or other substances removed or reduced by this water treatment system are not necessarily in your water.
- Check for compliance with the applicable state and local laws and regulations.
- Note that while the testing was performed under standard laboratory conditions, actual performance may vary. Systems must be installed and operated in accordance with manufacturer's recommended procedures and guidelines.
- Installation and use MUST comply with all state and local plumbing codes. Do not install if water pressure exceeds 120 psi. If your water pressure exceeds 80 psi (552 kPa), you should install a pressure-limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- Do not install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- Where a backflow prevention device is installed on a water system, a device for controlling pressure due to thermal expansion must be installed.

For conditions of use, health claims certified by the California Department of Public Health, and replacements, see performance data sheet. California Department of Public Health Certification #06-1834. The contaminants or other substances removed or reduced by this water filter are not necessarily in all users' water.

Tested and Certified by NSF International against ANSI/NSF Standards 42 and 53 in model GE MSWF for the reduction of:

Standard No. 42: Aesthetic Effects

- Chemical
 - Chlorine Taste and Odor
- Mechanical Filtration
 - Particulate Reduction, Class I

Standard No. 53: Health Effects

- Chemical Reduction
 - Atrazine Reduction
 - Endrin Reduction
 - Benzene and Carbofuran Reduction
 - 1,4 Dichlorobenzene and 2,4-D Reduction
- Mechanical Filtration
 - Lead and Lindane Reduction
 - Mercury and Toxaphene Reduction
 - Cyst and Asbestos Reduction



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REPLACEMENT ELEMENT

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