



Jim Doyle, Governor
Mary P. Burke, Secretary

March 29, 2005

CUNO INCORPORATED
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GENERAL ELECTRIC COMPANY
MARK COPELLI
APPLIANCE PARK AP35-1312
LOUISEVILLE KY 40225

Re: Description: WATER TREATMENT DEVICE
Manufacturer: GENERAL ELECTRIC COMPANY
Product Name: GE SMARTWATER FILTRATION SYSTEM
Model Number(s): GE MWF USING THE MWF CARTRIDGE
Product File No: 20050022

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of March 2010.

This approval is contingent upon compliance with the following stipulation(s):

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturers published instructions.
- For buildings not served by a municipal water supply, Department of Natural Resources (DNR) written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 266-3415.
- If this approved device is modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- These devices will only reduce the concentration of volatile organic chemicals at water outlets that are served by the devices. There are dermal (skin) absorption and inhalation exposure risks associated with volatile organic chemicals. Therefore, using point-of-use devices such as these will not protect all routes of potential exposure. Potentially hazardous exposures to volatile organic chemicals will remain possible at unprotected outlets, particularly hot water outlets (e.g. bathing, showering, clothes washing or dish washing).

If, by way of reputable water analyses, a water supply is known to contain unsafe levels of volatile organic chemicals, then all the water entering the residence must be treated at the point-of-entry using an approved water treatment device to address all potential routes of exposure.

- These devices will only reduce the concentration of cysts/oocysts at water outlets that are served by the devices. Therefore, using point-of-use devices such as these will not protect all routes of potential exposure. Potentially hazardous exposures to cysts/oocysts will remain possible at unprotected outlets.

The presence of cysts/oocysts strongly suggests that other pathogens (e.g. bacteria, virus) may also be present.

If, by way of reputable water analyses, a water supply is known to contain cysts/oocysts, then all the water entering the residence must be treated at the point-of-entry, using an approved water treatment device, to address all potential routes of exposure thereby providing a biologically safe water supply.

Based on testing data submitted to and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

AESTHETIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20050022
TABLE 1 OF 4

Flow Rate: 1.9 liters per minute (lpm) [0.5 gallon per minute (gpm)]
Capacity: 1,136 liters (l) (300 gals.) for free chlorine reduction. For particulate reduction the capacity is dependent on the type and quantity of particulate matter present in the untreated water; the need for maintenance may be indicated by a significant decrease in flow rate.

Tested Contaminant	Influent Challenge (mg/l)*, 1
Chlorine (free)	2.0 ± 10%
Particulates (0.5 to < 1.0 µm)	≥ 1.0 x 10 ⁴ #/ml

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 4 were verified by testing conducted in accordance with NSF *International* Standard 42. To qualify for free chlorine reduction, the device must reduce the influent challenge concentrations by ≥ 50%; meeting the free chlorine reduction requirements also qualifies the device for the reduction of aesthetic, organic, taste and odor reduction (e.g. geosmin, methylisoborneol); this does not include hydrogen sulfide. To qualify for particulate reduction (Class I) the device must reduce the influent challenge concentrations by ≥ 85%.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
≥ = greater than or equal to
± = plus or minus
#/ml = particles per milliliter

< = less than
µm = micrometers
* = unless otherwise specified

**HEALTH EFFECTING ORGANIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20050022
TABLE 4 OF 4**

Flow Rate: 1.9 l (0.5 gpm)
Capacity: 1,136 l (300 gals.)

Tested Contaminant	Influent Challenge ($\mu\text{g/l}$) ¹
Alachlor	40 \pm 10%
Atrazine	9.0 \pm 10%
Benzene	15.0 \pm 10%
Carbofuran	80 \pm 10%
2,4-D	210 \pm 10%
p-Dichlorobenzene	225 \pm 10%
Lindane	2.0 \pm 10%
Toxaphene	15.0 \pm 10%

Other Conditions: the contaminant reduction performance capabilities displayed for Table 4 of 4 were verified by testing conducted in accordance with NSF *International* Standard 53. To qualify for alachlor reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 2.0 \mu\text{g/l}$. To qualify for atrazine reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 3.0 \mu\text{g/l}$. To qualify for benzene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 5.0 \mu\text{g/l}$. To qualify for carbofuran reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 40 \mu\text{g/l}$. To qualify for 2,4-D reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 70 \mu\text{g/l}$. To qualify for p-dichlorobenzene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 75 \mu\text{g/l}$. To qualify for lindane reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 0.2 \mu\text{g/l}$. To qualify for toxaphene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are $\leq 3.0 \mu\text{g/l}$.

1 = micrograms per liter ($\mu\text{g/l}$) are equivalent to parts per billion (ppb)
 \leq = less than or equal to

\pm = plus or minus

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation that may result from its use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
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