



Jim Doyle, Governor
Mary P. Burke, Secretary

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CULLIGAN INTERNATIONAL
RESEARCH AND DEVELOPMENT
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NORTHBROOK IL 60062-6209

PENTAIR
PLYMOUTH PRODUCTS
ANNE SCHLEINZ
502 INDIANA AVE.
SHEBOYGAN WI 53081

Re: Description: WATER TREATMENT DEVICE-ACTIVATED CARBON
Manufacturer: PENTAIR
Product Name: FAUCET MOUNT FILTER
Model Number(s): FM-5 USING THE FM-5R CARTRIDGE
Product File No: 20050762

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 November 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.
- Where the Department of Natural Resources (DNR) has jurisdiction, a 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 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.

- This filter is approved as a *bacteriostatic* device.

"Bacteriostatic" means that the filtration media within this device will not support the growth of naturally occurring bacteria. This means that under actual test conditions the number of naturally occurring bacteria coming out of the tested filter was not greater than the number of naturally occurring bacteria entering the filter.

This **does not**, in any way, mean that this device will make microbiologically unsafe water safe to consume. This **does not** mean that this device will kill or otherwise inactivate disease causing microorganisms.

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 20050762
TABLE 1 OF 3

Flow Rate: 1.9 liters per minute (lpm) [0.5 gallons per minute (gpm)]
Capacity: 454 liters (l) [120 gallons (gals.)] for bacteriostasis and the reduction of free chlorine. For particulate reduction, dependent on the type and quantity of particulate matter present in the influent water; the need for maintenance may be indicated by a significant decrease in flow rate.

Tested Contaminant	Influent Challenge (mg/l)*, 1
Bacteriostasis (HPC bacteria‡)	10-1,000 #/ml
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 3 were verified by testing conducted in accordance with NSF *International* Standard 42. To qualify as a bacteriostatic device, the device must reduce the influent challenge concentrations such that the geometric mean of the heterotrophic plate counts of the effluent samples shall be less than, or equal to, the influent challenge concentrations, with a measurement precision of ± 20%. 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 = mg/l are equivalent to parts per million (ppm)
 ≥ = greater than or equal to
 * = unless otherwise specified
 ± = plus or minus

< = less than
 µm = micrometers
 #/ml = particles or organisms per milliliter
 ‡ = HPC bacteria are naturally occurring bacteria.
 HPC bacteria are not pathogenic (i.e. not disease causing) to otherwise healthy people.

**HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES
 PRODUCT FILE NUMBER 20050762
 TABLE 2 OF 3**

Flow Rate: 1.9 lpm (0.5 gpm)
Capacity: dependent on the type and quantity of particulate matter present in the influent water; the need for maintenance may be indicated by a significant decrease in flow rate.

Tested Contaminant	Influent Challenge (#/ml)
Cysts/Oocysts ¹	≥ 5.0 x 10 ⁴

Other Conditions: the contaminant reduction performance capabilities displayed for Table 2 of 3 were verified by testing conducted in accordance with NSF *International* Standard 53. To qualify for cyst/oocyst reduction, the device must reduce the influent challenge concentrations by ≥ 99.95% at each sample point.

1 = the specific organisms covered under this testing protocol include cryptosporidium parvum, entamoeba histolytica, giardia lamblia and toxoplasma gondii

#/ml = particles per milliliter

≥ = greater than or equal to

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES
 PRODUCT FILE NUMBER 20050762
 TABLE 3 OF 3**

Flow Rate: 1.9 lpm (0.5 gpm)
Capacity: For asbestos reduction, dependent on the type and quantity of particulate matter present in the influent water; the need for maintenance may be indicated by a significant decrease in flow rate. For lead reduction = 454 l (120 gals.)

Tested Contaminant	Influent Challenge Concentration (mg/l) ¹
Asbestos Fibers (> 10µm in length)	1.0 x 10 ⁷ to 1.0 x 10 ⁸ F/l
Lead (Pb ⁺²) ²	0.15 ± 10%

Other Conditions: the contaminant reduction performance capabilities displayed for Table 3 of 3 were verified by testing conducted in accordance with NSF *International* Standard 53. To qualify for asbestos reduction, the device must reduce the influent challenge concentrations by ≥ 99%. To qualify for lead reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.010 mg/l.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)

F/l = fibers per liter

≤ = less than or equal to

± = plus or minus

2 = metals are tested at pH 6.5 and pH 8.5

* = unless otherwise specified

≥ = greater than or equal to

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 which may result from its use.

Sincerely,

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