



July 2, 2003

PENTAIR WATER TREATMENT  
PLYMOUTH PRODUCTS  
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PO BOX 1047  
SHEBOYGAN WI 53082-1047

CULLIGAN INTERNATIONAL  
BETH HUPP  
ONE CULLIGAN PARKWAY  
NORTHBROOK IL 60062

Re: Description: WATER TREATMENT DEVICE-ACTIVATED CARBON  
Manufacturer: CULLIGAN INTERNATIONAL  
Product Name: COUNTER TOP DRINKING WATER FILTER  
Model Number(s): CT-3 USING THE CT-3R CARTRIDGE  
Product File No: 20030160

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 October 2003.

This approval supercedes the approval issued on October 14, 1998 under product file number 19980320.

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.

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.

**HEALTH EFFECTING ORGANIC CONTAMINANT REDUCTION CAPABILITIES  
PRODUCT FILE NUMBER 20030160  
TABLE 1 OF 4**

**Flow Rate:** 1.9 liters per minute (lpm) [0.5 gallon per minute (gpm)]  
**Capacity:** 2,271 liters (l) [600 gallons (gals.)]

Tested Contaminant	Influent Challenge ( $\mu\text{g/l}$ ) <sup>1</sup>
Atrazine	9.0 $\pm$ 10%
Lindane	0.6 $\pm$ 10%

**Other Conditions:** the contaminant reduction performance capabilities displayed for Table 1 of 4 were verified by testing conducted in accordance with NSF *International* Standard 53. 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 lindane reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are  $\leq$  0.2  $\mu\text{g/l}$ .

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

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES  
PRODUCT FILE NUMBER 20030160  
TABLE 2 OF 4**

**Flow Rate:** 1.9 lpm  
**Capacity:** 2,271 l

Tested Contaminant	Influent Challenge Concentration (mg/l) <sup>1</sup>
Lead ( $\text{Pb}^{+2}$ ) <sup>2</sup>	0.15 $\pm$ 10%

**Other Conditions:** the contaminant reduction performance capabilities displayed for Table 2 of 4 were verified by testing conducted in accordance with NSF *International* Standard 53. To qualify for lead reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are  $\leq$  0.010 mg/l.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)  
2 = metals are tested at pH 6.5 and pH 8.5  
 $\leq$  = less than or equal to  
 $\pm$  = plus or minus

**HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES  
PRODUCT FILE NUMBER 20030160  
TABLE 3 OF 4**

**Flow Rate:** 1.9 lpm  
**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 <sup>1</sup>	$\geq$ 5.0 x 10 <sup>4</sup>

**Other Conditions:** the contaminant reduction performance capabilities displayed for Table 3 of 4 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  $\geq$  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  
 $\geq$  = greater than or equal to  
#/ml = particles per milliliter

**AESTHETIC CONTAMINANT REDUCTION CAPABILITIES**  
**PRODUCT FILE NUMBER 20030160**  
**TABLE 4 OF 4**

**Flow Rate:** 1.9 lpm  
**Capacity:** 2,271 l for free chlorine reduction. For particulate reduction, the capacity is 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) <sup>*, 1</sup>
Chlorine (free)	2.0 ± 10%
Particulates (0.5 to < 1.0 µm)	1.0 x 10 <sup>4</sup> #/ml

**Other Conditions:** the contaminant reduction performance capabilities displayed for Table 4 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%. To qualify for particulate reduction (Class 1), the device must reduce the influent challenge concentrations by ≥ 85%.

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

\* = unless otherwise specified

< = less than

µm = micrometers

#/ml = particles per milliliter

≥ = greater than or equal to

± = 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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GWS:gws