SAFETY AND BUILDINGS DIVISION
Plumbing Product Review
P.O. Box 2658
Madison, Wisconsin 53701-2658

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Wisconsin
Department of Commerce

**Jim Doyle, Governor**
**Mary P. Burke, Secretary**

August 24, 2005

THE PROCTOR AND GAMBLE COMPANY
HEALTH CARE
ANN MCGHEE
8700 MASON-MONTGOMERY RD.
MASON OH 45040-9462

WHIRLPOOL CORPORATION
ADMINISTRATION CENTER
LAWRENCE M. SCHENTRUP
2000 NORTH M-63
BENTON HARBOR MI 49022

Re: Description: WATER TREATMENT DEVICE-ACTIVATED CARBON
Manufacturer: WHIRLPOOL CORPORATION
Product Name: KITCHENAID DELUXE FILTERS FOR ICE AND WATER
Model Number(s): T2WG2 AND T2WG2L BOTH USING THE T2RFWTG2 CARTRIDGE
Product File No: 20050611

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 June 2010.

This approval supercedes the approval issued on June 1, 2005 under product file number 20050174.

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 these approved devices are 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.

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

## AESTHETIC CONTAMINANT REDUCTION CAPABILITIES
## PRODUCT FILE NUMBER 20050611
## TABLE 1 OF 3

**Flow Rate:** 3.2 liters per minute (lpm) [0.85 gallons per minute (gpm)]
**Capacity:** 757.1 liters (l) (200 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 be a significant decrease in flow rate.

| Tested Contaminant | Influent Challenge (mg/l)*, [1] |
|---|---|
| Chlorine (free) | 2.0 ± 10% |
| Particulates (≥ 1.0 to < 5.0 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 for free chlorine reduction, the device must reduce the influent challenge concentrations by ≥ 75%; 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 II) 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 INORGANIC CONTAMINANT REDUCTION CAPABILITIES
## PRODUCT FILE NUMBER 20050611
## TABLE 2 OF 3

**Flow Rate:** 3.2 lpm (0.85 gpm)
**Capacity:** 757.1 l (200 gals.)

| Tested Contaminant | Influent Challenge Concentration (mg/l)[1] |
|---|---|
| Lead ($Pb^{+2}$) [2] | 0.15 ± 10% |
| Mercury ($Hg^{+2}$) [2] | 0.006 ± 10% |

**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 lead reduction, the device must reduce the influent such that all effluent concentrations are ≤ 0.010 mg/l. To qualify for mercury reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 0.002 mg/l.

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

**HEALTH EFFECTING ORGANIC CONTAMINANT REDUCTION CAPABILITIES**
**PRODUCT FILE NUMBER 20050611**
**TABLE 3 OF 3**

**Flow Rate:** 3.2 lpm (0.85 gpm)
**Capacity:** 757.1 l (200 gals.)

| Tested Contaminant | Influent Challenge (μg/l)[1] |
|---|---|
| Benzene | 15.0 ± 10% |
| Carbofuran | 80 ± 10% |
| o-Dichlorobenzene | 1,800 ± 10% |
| Toxaphene | 15.0 ± 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 benzene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 5.0 μg/l. To qualify for carbofuran reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 40 μg/l. To qualify for o-dichlorobenzene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 600 μg/l. To qualify for toxaphene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 3.0 μg/l.

**1** = micrograms per liter (μg/l) are equivalent to parts per billion (ppb) **±** = plus or minus
**≤** = less 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 that may result from its use.

Sincerely,

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