



June 18, 2013

3M PURIFICATION INCORPORATED  
KAREN CARTER  
400 RESEARCH PARKWAY  
MERIDEN CT 06450

EMERSON - IN-SINK-ERATOR  
KAREN CARTER  
400 RESEARCH PARKWAY  
MERIDEN CT 06450

Re: Description: WATER TREATMENT DEVICE - ACTIVATED CARBON  
Manufacturer: EMERSON  
Product Name: IN SINK ERATOR INSTANT HOT WATER DISPENSER FILTER  
Model Number(s): F-2000S USING THE F-2000 CARTRIDGE  
Product File No: 20130134

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 2018.

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 manufacturer's 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) 267-9787.
- 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.

- This device must be installed using the installation kit, piping materials and instructions provided by In-Sink-Erator.
- If the treatment components of this device (e.g., replacement cartridge) are replaced with anything other than those originally approved for use with this device, then this approval shall immediately be considered null and void.

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 4 of this letter.

**AESTHETIC CONTAMINANT REDUCTION CAPABILITIES**  
**PRODUCT FILE NUMBER 20130134**  
**TABLE 1 OF 4**

**Flow Rate:** 2.8 liters per minute (lpm) [0.75 gallon per minute (gpm)]  
**Capacity:** 1,893 liters (l) (500 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) <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 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)      < = less than  
 ≥ = greater than or equal to      µm = micrometers  
 ± = plus or minus      \* = unless otherwise specified  
 #/ml = particles per milliliter

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES**  
**PRODUCT FILE NUMBER 20130134**  
**TABLE 2 OF 4**

**Flow Rate:** 2.8 lpm (0.75 gpm)  
**Capacity:** 1,893 l (500 gals.) for free chlorine reduction. For asbestos 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 Concentration (mg/l) <sup>1</sup>
Asbestos fibers (> 10 µm in length)	1.0 x 10 <sup>7</sup> to 1.0 x 10 <sup>8</sup> F/l
Lead (Pb <sup>+2</sup> ) <sup>2</sup>	0.15 ± 10%
Mercury (Hg <sup>+2</sup> ) <sup>2</sup>	0.006 ± 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 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. 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)      2 = metals are tested at pH 6.5 and pH 8.5  
 \* = unless otherwise specified      ≤ = less than or equal to  
 ± = plus or minus      F/l = fibers per liter

**HEALTH EFFECTING ORGANIC CONTAMINANT REDUCTION CAPABILITIES  
 PRODUCT FILE NUMBER 20130134  
 TABLE 3 OF 4**

**Flow Rate:** 2.8 lpm (0.75 gpm)  
**Capacity:** 1,893 l (500 gals.)

Tested Contaminant	Influent Challenge (µg/l) <sup>1</sup>
Atrazine	9.0 ± 10%
Benzene	15.0 ± 10%
Carbofuran	80.0 ± 10%
2,4-D	210 ± 10%
p-Dichlorobenzene	225 ± 10%
Lindane	2.0 ± 10%

**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 atrazine reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 3.0 µg/l. 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 2,4-D reduction, the devices must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 70.0 µg/l. To qualify for p-dichlorobenzene reduction, the device must reduce the influent challenge concentrations such that all effluent concentrations are ≤ 75 µg/l. To qualify for lindane reduction, the device must reduce all influent challenge concentrations such that all effluent concentrations are ≤ 0.2 µg/l.

1 = micrograms per liter (µg/l) are equivalent to parts per billion (ppb)                      ± = plus or minus  
 ≤ = less than or equal to

**HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES  
 PRODUCT FILE NUMBER 20130134  
 TABLE 4 OF 4**

**Flow Rate:** 2.8 lpm (0.75 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 <sup>1</sup>	≥ 5.0 x 10 <sup>4</sup>

**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 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

In Sink Erator  
June 18, 2013  
Page 4 of 4  
Product File No.: 20130134

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  
Plumbing Product Reviewer  
Department of Safety and Professional Services  
Division of Industry Services  
Bureau of Technical Services  
(608) 267-1401 Phone  
(608) 266-2602 Fax  
glen.schlueter@wi.gov E-mail