



August 22, 2013

CAPITAL WATER SOFTENER INCORPORATED
JOEL WICK
2096 HELENA STREET
MADISON WI 53704

Re: Description: WATER TREATMENT DEVICE - POE OXIDIZING
Manufacturer: CAPITAL WATER SOFTENER INCORPORATED
Product Name: ELIMINATOR II
Model Number(s): HPFE-10, HPFE-13, HPFE-14 AND HPFE-16
Product File No: 20130253

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 August 2018.

This approval supersedes the approval issued on October 22, 2008 under product file number 20080098.

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 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 are not approved for the reduction of bacterial, colloidal or organically bound forms of iron.

The water must be tested to speciate the iron present to determine if these devices can provide adequate treatment.

- These devices are not approved for the reduction of hydrogen sulfide.

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 2 of this letter.

**AESTHETIC CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20130253
TABLE 1 OF 1**

Flow Rates and Corresponding Pressure Losses:

HPFE-10 = 6.5 gpm (gallons per minute) @ 3 psig (pounds per square inch-gauge)
HPFE-13 = 9.3 gpm @ 4 psig
HPFE-14 = 12.5 gpm @ 6 psig
HPFE-16 = 16.0 gpm @ 9 psig

Capacities:

HPFE-10 = 475 gals. (gallons)
HPFE-13 = 800 gals.
HPFE-14 = 920 gals.
HPFE-16 = 1,200 gals.

| Tested Contaminant | Average Influent Challenge (mg/l) ¹ |
|------------------------------------|--|
| Dissolved iron (Fe ⁺²) | 8.1 |

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with WQA Standard S-200-2000. However, the influent challenge concentrations were not maintained within the range set by the standard (i.e. 10.0 ± 1.0 mg/l as Fe). To qualify for dissolved iron reduction, the device must reduce the influent challenge concentrations such that, prior to the 100% capacity sampling point, 90% of the effluent samples are ≤ 0.3 mg/l; and the 100% sample is ≤ 0.3 mg/l. The maximum influent dissolved iron concentration may not exceed 8.1 mg/l in the context of this approval.

¹ = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
± = 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 which may result from its use.

Sincerely,

Glen W. Schlueter
Environmental Engineer - Plumbing Product Reviewer
Department of Safety and Professional Services
Division of Industry Services
Bureau of Technical Services
(608) 267-1401 Phone
(608) 267-9723 Fax
glen.schlueter@wi.gov E-mail