



Jim Doyle, Governor
Mary P. Burke, Secretary

February 7, 2006

WATER GROUP COMPANIES INC
JASON KAROL
580 PARK ST
SASKATCHEWAN S4N 5Z6
CANADA

WATER GROUP INC
GEOFF BROWN
193 OSBORN RD
FRIDLEY MN 55432

Re: Description: WATER TREATMENT DEVICE-NEUTRALIZING
Manufacturer: WATER GROUP INC
Product Name: ECONOFLO UPFLOW NEUTRALIZER
Model Number(s): UNF10 AND UNF20
Product File No: 20050783

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 February 2011.

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 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.
- Operation of this/these device(s) and flow rates above the rated service flow rates indicated within this approval letter are not supported or acknowledged by this approval. The rated service flow rate(s) is/are the flow rate(s) at which this/these device(s) were tested.

Because the level of treatment obtained is a function of how long the water is in contact with the treatment media within this/these device(s), arbitrary increases in the flow rate(s), above the rated service flow rate(s) may compromise the quality of the treated water.

- These devices are not capable of being backwashed.

Backwashing is a process during which the flow of water is reversed relative to the direction of flow during the service cycle. The purpose of backwashing is to flush particulate matter that may have become entrained in the media bed during the service cycle to drain, and re-sort the media granules. Particulate matter that accumulates within the media beds may compromise the quality of the treated water and cause decreasing effluent water pressure.

Therefore, because these devices can not be backwashed, these devices shall only be installed on visually clear water, or, approved particulate filters shall be installed prior to the devices.

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 20050783
TABLE 1 OF 1**

Flow Rates: UNF10 = 18.9 liters per minute (lpm) @ 13.9 kilopascals (kPa)
[5.0 gallon per minute (gpm) @ 2.0 pound per square inch gauge (psig)]

UNF20 = 37.9 liters per minute (lpm) @ 13.9 kilopascals (kPa)
[10.0 gallon per minute (gpm) @ 2.0 pounds per square inch gauge (psig)]

Capacities: UNF10 = 181,700 liters (l) [48,000 gallons (gals.)]
UNF20 = 363,400 liters (l) [96,000 gallons (gals.)]

Tested Contaminant	Influent Challenge (pH units)
Low pH	4.0 ± 0.5

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with the pertinent protocol contained in NSF/ANSI Standard 42. To qualify for low pH adjustment, the device must increase the challenge pH's into the range of ≥ 6.5 and ≤ 8.5 .

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

\geq = greater than or equal to
 \leq = 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
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
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