



May 12, 2003

HELLENBRAND INCORPORATED
JILL MCDONALD
404 MORAVIAN VALLEY ROAD
PO BOX 187
WAUNAKEE WI 53597

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: HELLENBRAND INCORPORATED
Product Name: TF/TFM SERIES
Model Number(s): TF-800, TFM-800, TF-1200, TFM-1200, TF-1600, TFM-1600, TF-2250, TFM-2250, TF-3000, TFM-3000, TF-4500 AND TFM-4500
Product File No: 20030062

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 May 2008.

This approval supercedes the approval issued on June 16, 1998 under product file number 19980167.

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.

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.

**WATER SOFTENING CAPABILITIES
 PRODUCT FILE NUMBER 20030062
 TABLE 1 OF 1**

Model Numbers		Capacity*						Flow rate vs.
TF/TFM Series		Rating 1		Rating 2		Rating 3		Pressure Loss
Metered	Time Clock	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
TFM-800	TF-800	8,800	2.7	12,500	4.5	16,500	7.5	6.1 @ 6.6
TFM-1200	TF-1200	13,200	4.1	18,800	6.8	24,800	11.3	8.4 @ 9.2
TFM-1600	TF-1600	17,600	5.5	25,000	9.1	33,000	15.0	10.0 @ 10.2
TFM-2250	TF-2250	26,500	8.2	37,500	13.6	49,500	22.5	9.7 @ 9.7
TFM-3000	TF-3000	35,300	10.9	50,000	18.2	66,000	30.0	12.0 @ 10.6
TFM-4500	TF-4500	52,900	16.4	75,000	27.3	99,000	45.0	12.0 @ 9.7

* The softener capacity rating is based on grains of hardness, due to calcium and magnesium cations, removed (as calcium carbonate) while producing soft water between successive regenerations and is related to the pounds of salt required for each regeneration. The tests run to generate the data for table 1 were conducted in accordance with NSF Standard 44.

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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