



December 29, 2005

WATER QUALITY ASSOCIATION
PRODUCT CERTIFICATION
THOMAS PALKON
4151 NAPERVILLE RD
LISLE IL 60532

HAGUE QUALITY WATER, INTERNATIONAL
CHRIS HUGHES
4343 S HAMILTON RD
GROVEPORT OH 43125

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: HAGUE QUALITY WATER, INTERNATIONAL
Product Name: HAGUE WATER SOFTENERS
Model Number(s): 53 BEQ AND 63 BEQ
Product File No: 20040549

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 December 2010.

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.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater volumes, total dissolved solids and chloride discharges are minimized.
- If these devices are installed for the purposes of barium and/or radium reduction, the "blending valve" shall be maintained in the fully closed position at all times.
- At the time of installation, these devices shall be provided with an effective means to warn the users when they are not performing their function. This shall be accomplished by one of the following:
 1. sounding and alarm or flashing a light, each connected to an acceptable power source;
 2. providing a sampling kit for analysis of hardness or other appropriate contaminants; or
 3. providing a hardness monitor.

- 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 filters are approved as bacteriostatic devices.

"Bacteriostatic" means that the *filtration media* within this device will not support the growth of naturally occurring bacteria. This means that under actual test conditions the number of naturally occurring bacteria coming out of the tested filter was not greater than the number of naturally occurring bacteria entering the filter.

This does not, in any way, mean that this device will make microbiologically unsafe water safe to consume. This does not mean that this device will kill or otherwise inactivate disease causing microorganisms.

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.

**WATER SOFTENING CAPABILITIES
 PRODUCT FILE NUMBER 20040549
 TABLE 1 OF 1**

Model Numbers	Capacities*								Flow Rate vs. Pressure Loss gpm @ psig
	Rating 1		Rating 2		Rating 3		Rating 4		
Metered	Grains	Pounds	Grains	Pounds	Grains	Pounds	Grains	Pounds	
Watermax	5,900	1.1	16,300	3.2	23,100	6.2	32,500	9.5	8.0 @ 11
53BEQ	5,900	1.1	16,300	3.2	23,100	6.2	32,500	9.5	8.0 @ 11
63BEQ	5,900	1.1	16,300	3.2	23,100	6.2	32,500	9.5	8.0 @ 11

* 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 hardness reduction data for table 1 were conducted in accordance with NSF Standard 44.

In addition, these devices are approved for the reduction of dissolved iron, up to a maximum concentration of 5.0 mg/l. The tests run to support the dissolved iron reduction claim were conducted by Sybron Chemical Company.

Also, these devices are approved for a nominal (i.e. 85% reduction) mechanical filtration rating of 25 micrometers (µm). The tests run to support the nominal 25 µm mechanical filtration rating were conducted by Inter-Basic Resources.

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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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GWS:gws