



**Jim Doyle, Governor**  
**Mary P. Burke, Secretary**

November 18, 2005

**REVISED COPY**

WATER RIGHT INCORPORATED  
JIM BAUMBACH  
1900 PROSPECT COURT  
APPLETON WI 54914-9000

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: WATER RIGHT INCORPORATED  
Product Name: AS SERIES  
Model Number(s): AS-844-T, AS-844-M, AS-844-ME, AS-1044-T, AS-1044-M, AS-1044-ME,  
AS-1054-T, AS-1054-M, AS-1054-ME, AS-1354-T, AS-1354-M AND AS-1354-ME  
Product File No: 20040076

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 November 2010.

This approval supersedes the approval issued on February 3, 1999 under product file number 19990011.

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.
- These devices generate and discharge significant concentrations of free chlorine during each regeneration.

This fact should be considered as part of an overall program of inspection and maintenance for private on-site waste treatment systems (e.g. septic tank).

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 20040076  
 TABLE 1 OF 1**

Model Numbers		Capacity*						Flow Rate vs. Pressure Loss
AS Series		Rating 1		Rating 2		Rating 3		gpm @ psig
Metered	Fully Automatic	Grains	Pounds	Grains	Pounds	Grains	Pounds	
AS-844-M	AS-844-T	11,800	3.2	16,100	6.1	18,900	9.3	10.0 @ 15
AS-1044-M	AS-1044-T	22,000	6.1	26,100	9.3	31,700	15.9	13.0 @ 15
AS-1054-M	AS-1054-T	37,500	9.3	47,100	15.9	55,300	23.8	11.0 @ 15
AS-1354-M	AS-1354-T	62,500	15.3	78,500	26.3	88,800	39.7	14.0 @ 15
AS-844-ME	-	11,800	3.2	16,100	6.1	18,900	9.3	10.0 @ 15
AS-1044-ME	-	22,000	6.1	26,100	9.3	31,700	15.9	13.0 @ 15
AS-1054-ME	-	37,500	9.3	47,100	15.9	55,300	23.8	11.0 @ 15
AS-1354-ME	-	62,500	15.3	78,500	26.3	88,800	39.7	14.0 @ 15

\* 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 verify the data for table 1 of 1 were conducted via column studies and scaling calculations by Baumbach Lab, Appleton WI.

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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