

July 19, 2010

WATER RIGHT INCORPORATED
KURTT GRUETT
1900 PROSPECT COURT
APPLETON WI 54914-9000

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: WATER RIGHT INCORPORATED
Product Name: ASC2 SERIES (POE)
Model Number(s): ASC2-1044-T, ASC2-1044-M, ASC2-1044-ME, ASC2-1054-T, ASC2-1054-M,
ASC2-1054-ME, ASC2-1354-T, ASC2-1354-M AND ASC2-1354-ME (POE)
Product File No: 20100255

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 July 2015.

This approval supersedes the approval issued on November 21, 2005 under product file number 20040077.

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) 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 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 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).

- The department does not recommend the use of water softeners for reducing dissolved iron concentrations in excess of 3.0 mg/l. This is because applying water softeners in this way sacrifices long-term water softener performance and efficiency. The use of water softeners for reducing dissolved iron concentrations exceeding 3.0 mg/l also generates excessive, and otherwise avoidable, quantities of chloride and dissolved solids which are subsequently discharged to ground and/or surface water supplies. Once present in ground and/or surface water supplies, chloride and dissolved solids tend to remain in the water resource and may travel great distances from the original point source. Presently, there are no economically viable methods to remove chloride and dissolved solids from water supplies because available technologies generate waste streams of their own, further concentrating the problem. It has been established by the Wisconsin Department of Natural Resources that chloride is chronically toxic to representative aquatic organisms, including forage and sport fish, at 395 mg/l, and acutely toxic at 757 mg/l.

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 20100255
 TABLE 1 OF 1**

Model Numbers		Capacity*						Flow Rate vs. Pressure Loss
ASC2 Series		Rating 1		Rating 2		Rating 3		gpm @ psig
Metered	Fully Automatic	Grains	Pounds	Grains	Pounds	Grains	Pounds	
ASC2-1044-M	ASC2-1044-T	11,100	3.2	19,100	9.3	20,300	12.4	19.0 @ 15
ASC2-1054-M	ASC2-1054-T	22,900	6.1	32,000	12.4	34,800	15.9	17.0 @ 15
ASC2-1354-M	ASC2-1354-T	28,200	9.3	48,300	15.9	60,300	21.2	19.0 @ 15
ASC2-1044-ME	-	11,100	3.2	19,100	9.3	20,300	12.4	19.0 @ 15
ASC2-1054-ME	-	22,900	6.1	32,000	12.4	34,800	15.9	17.0 @ 15
ASC2-1354-ME	-	28,200	9.3	48,300	15.9	60,300	21.2	19.0 @ 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.

The ASC2-1044 models are approved to reduce up to 8.0 mg/l of total iron and manganese. The ASC2-1054 models are approved to reduce up to 10.0 mg/l of total iron and manganese. The ASC2-1354 models are approved to reduce up to 15.0 mg/l of total iron and manganese.

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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