



Jim Doyle, Governor
Mary P. Burke, Secretary

April 21, 2005

CAPITAL WATER SOFTENER INCORPORATED
ERIC WICK/ JOEL WICK
2096 HELENA STREET
MADISON WI 53704

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: CAPITAL WATER SOFTENER INCORPORATED
Product Name: WINDSOR SERIES
Model Number(s): WS-16, WS-24, WS-32, WS-48, WS-64, WS-96, WS-128 AND WS-160
Product File No: 20050128

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 April 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.
- 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.
- These cation exchange water softeners shall be sized, installed, programmed and maintained such that wastewater, total dissolved solids and chloride discharges are minimized.

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 20050128
 TABLE 1 OF 1**

Model Numbers Windsor Series	Capacity*						Flow Rate gpm @ psig
	Rating 1		Rating 2		Rating 3		
Demand Initiated Regeneration	Grains	Pounds	Grains	Pounds	Grains	Pounds	
WS-16	9,103	2.0	14,039	4.8	16,435	7.5	9.8 @ 15.0
WS-24	13,520	3.0	21,058	7.1	24,652	11.3	11.0 @ 15.0
WS-32	18,027	4.0	28,077	9.5	32,869	15.0	12.5 @ 15.0
WS-48	27,040	6.0	42,116	14.3	48,304	22.5	13.1 @ 15.0
WS-64	36,053	8.0	56,154	19.0	65,738	30.0	16.4 @ 15.0
WS-96	54,080	12.0	84,231	28.5	98,608	45.0	18.0 @ 15.0
WS-128	72,107	16.0	112,308	38.0	131,477	60.0	19.8 @ 15.0
WS-160	90,134	20.0	140,385	47.5	164,346	75.0	23.2 @ 15.0

* 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 performed by Baumbach Labs, 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 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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GWS:gws