



**Jim Doyle, Governor**  
**Cory L. Nettles, Secretary**

September 8, 2004

ECOWATER SYSTEMS  
MARGARET L. BICKING  
PO BOX 64420  
ST. PAUL MN 55164-9888

ALAMO c/o ECOWATER SYSTEMS INC.  
MARGARET BICKING  
PO BOX 64420  
ST. PAUL MN 55164-0421

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: ALAMO c/o ECOWATER SYSTEMS INC.  
Product Name: ALAMO ELECTRONIC DEMAND AUTOMATIC WATER SOFTENER  
Model Number(s): APT 70ED 100  
Product File No: 20040389

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 September 2009.

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 this approved device is 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 this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 2 of this letter.

**WATER SOFTENING CAPABILITIES  
PRODUCT FILE NUMBER 20040389  
TABLE 1 OF 1**

<b>Model Number</b>	<b>Capacity*</b>						
	<b>Rating 1</b>		<b>Rating 2</b>		<b>Rating 3</b>		<b>Flow Rate</b>
<b>Metered</b>	<b>Grains</b>	<b>Pounds</b>	<b>Grains</b>	<b>Pounds</b>	<b>Grains</b>	<b>Pounds</b>	<b>gpm @ psig</b>
APT 70ED 100	30,400	5.7	52,000	11.5	69,900	20.4	16.0 @ 14

\* 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  
(608) 267-1401 **Phone**  
(608) 267-9566 **Fax**  
gschlueter@commerce.state.wi.us **Email**  
8:00AM – 4:30PM CDT **Work Hours**

GWS:gws