



Jim Doyle, Governor
Cory L. Nettles, Secretary

May 24, 2004

TG ANALYTICAL LABORATORIES
RUSS PARKER
N1022 QUALITY DRIVE
PO BOX 170
GREENVILLE WI 54942

DIAMOND WATER CONDITIONING
TOM GRIESBACH
N2471 HWY 45
PO BOX 39
HORTONVILLE WI 54944

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: DIAMOND WATER CONDITIONING
Product Name: AVANTA PURE SERIES
Model Number(s): APS-100 AND APS-150
Product File No: 20030597

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 May 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 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.
- The documents entitled "Performance Data Sheet" for the APS 100 and/or APS 150 models must be included with the "Operation and Maintenance Manual" (i.e. P/N 1227757 Rev. F as received by this department 03/26/04) and "Home Owner Manual (i.e. P/N 122065 Rev. A as received by this department 03/26/04) on all residential installations of these devices in Wisconsin. This information must be left with the end user of each water softener.

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 20030597
 TABLE 1 OF 1**

Model Numbers	Capacity*						Flow Rate vs. Pressure Loss
	Rating 1		Rating 2		Rating 3		
Metered	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
APS-100	10,000	2.4	19,200	5.6	26,400	9.6	9.0 @ 7.0
APS-150	16,500	3.6	31,600	8.4	43,400	14.4	12.6 @ 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 conducted in accordance with NSF/ANSI 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**
 8:00A - 4:30P CDT **Work Hours**

GWS:gws