



September 10, 2010

AQUA CONSULTING  
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DIAMOND WATER CONDITIONING  
PAUL KALSCHEUR  
PO BOX 170  
GREENVILLE WI 54942-0170

Re: Description: WATER TREATMENT DEVICE- SOFTENER  
Manufacturer: DIAMOND WATER CONDITIONING  
Product Name: DCS6 SERIES (POE)  
Model Number(s): DCS6-24-100-T1, DCS6-30-100-T1, DCS6-75-100-T1, DCS6-75-100-T1-TC,  
DCS6-90-100-T1, DCS6-90-100-T1-TC, DCS6-30-100-T2, DCS6-45-100-T2,  
DCS6-60-100-T2, DCS6-30-125-T1, DCS6-45-125-T1, DCS6-60-125-T1,  
DCS6-75-125-T1, DCS6-90-125-T1 DCS6-30-125-T2, DCS6-60-125-T2,  
DCS6-75-125-T2 AND DCS6-90-125-T2 (POE)  
Product File No: 20100322

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 2015.

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) 267-9787.
- 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.

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 20100322  
 TABLE 1 OF 1**

Model Numbers		Capacity*						Flow Rate vs. Pressure Loss
DCS6 Series		Rating 1		Rating 2		Rating 3		gpm @ psig
Metered	Time Clock	Grains	Pounds	Grains	Pounds	Grains	Pounds	
DCS6-24-100-T1	-	13,500	3.4	17,000	6.5	20,500	11.0	11.7 @ 15.0
DCS6-30-100-T1	-	18,000	4.5	23,000	9.0	28,000	15.0	16.0 @ 15.0
DCS6-30-100-T2	-	18,000	4.5	23,000	9.0	28,000	15.0	13.1 @ 15.0
DCS6-45-100-T2	-	27,500	7.0	35,000	13.5	42,000	22.5	13.3 @ 15.0
DCS6-60-100-T2	-	36,000	9.0	46,000	18.0	56,000	30.0	16.4 @ 15.0
DCS6-75-100-T1	DCS6-75-100-T1-TC	45,000	11.5	58,000	22.5	69,000	37.0	17.1 @ 15.0
DCS6-90-100-T1	DCS6-90-100-T1-TC	54,000	13.5	70,000	27.0	84,000	45.0	17.8 @ 15.0
DCS6-30-125-T1	-	18,000	4.5	23,000	9.0	28,000	15.0	16.0 @ 12.0
DCS6-30-125-T2	-	18,000	4.5	23,000	9.0	28,000	15.0	15.4 @ 15.0
DCS6-45-125-T1	-	27,500	7.0	35,000	13.5	42,000	22.5	15.7 @ 15.0
DCS6-60-125-T1	-	36,000	9.0	46,000	18.0	56,000	30.0	19.4 @ 15.0
DCS6-60-125-T2	-	36,000	9.0	46,000	18.0	56,000	30.0	19.4 @ 15.0
DCS6-75-125-T1	-	45,000	11.5	58,000	22.5	69,000	37.0	20.1 @ 15.0
DCS6-75-125-T2	-	45,000	11.5	58,000	22.5	69,000	37.0	20.1 @ 15.0
DCS6-90-125-T1	-	54,000	13.5	70,000	27.0	84,000	45.0	20.8 @ 15.0
DCS6-90-125-T2	-	54,000	13.5	70,000	27.0	84,000	45.0	20.8 @ 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 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 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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