



March 24, 2015

DIAMOND WATER CONDITIONING
JOHN GRIESBACH / DAN SCHLENZ
N1022 QUALITY DRIVE
PO BOX 170
GREENVILLE WI 54942

Re: Description: WATER TREATMENT DEVICE - SOFTENER/CATION EXCHANGE
Manufacturer: DIAMOND WATER CONDITIONING
Product Name: DRS4 SERIES (POE)
Model Number(s): DRS4-15, DRS4-24, DRS4-32, DRS-33, DRS4-49 AND DRS4-66 (POE)
Product File No: 20150028

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 March 2020.

This approval supersedes the approval issued on February 15, 2010 under product file number 20100002.

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 20150028
 TABLE 1 OF 1**

Model Numbers	Capacity*						Flow Rate vs. Pressure Loss
	Rating 1		Rating 2		Rating 3		
DRS4 Series	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
Demand Initiated							
DRS4-15	9,600	2.5	13,500	5.0	15,300	7.0	4.0 @ 5.0
DRS4-24	15,500	3.8	21,700	7.5	24,600	10.5	6.0 @ 9.0
DRS4-32	20,700	5.0	29,000	10.0	32,800	14.0	10.0 @ 15.0
DRS4-33	20,700	5.0	29,000	10.0	32,800	14.0	5.7 @ 6.0
DRS4-49	31,000	7.5	43,500	15.0	49,100	21.0	9.6 @ 15.0
DRS4-66	41,400	10.0	58,000	20.0	65,500	28.0	11.2 @ 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 verify the data for table 1 of 1 were conducted in accordance with WQA standard S-100-85.

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
 Environmental Engineer - Plumbing Product Reviewer
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 Division of Industry Services
 Bureau of Technical Services
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