



July 23, 2012

AQUION INCORPORATED
BIBHA DAHAL
101 S. GARY AVENUE
ROSELLE IL 60172

Re: Description: WATER TREATMENT DEVICE - POE SOFTENER
Manufacturer: AQUION INCORPORATED
Product Name: DER SERIES WATER CONDITIONING SYSTEMS
Model Number(s): DER 110 WS, DER 115 WS, DER 175 WS AND DER C10 WS
Product File No: 20120179

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 July 2017.

This approval supersedes the approval issued on April 12, 2007 under product file number 20060535.

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.
- 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) 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 volumes, total dissolved solids and chloride discharges are minimized.
- At the time of installation, these devices shall be provided with an effective means to warn the users when they are not performing their function. This shall be accomplished by one of the following:
 1. sounding and alarm or flashing a light, each connected to an acceptable power source;
 2. providing a sampling kit for analysis of hardness or other appropriate contaminants; or
 3. providing a hardness monitor.

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 20120179
 TABLE 1 OF 1**

Model Numbers	Capacity*						Max. Rated Service Flow Rate
	Rating 1		Rating 2		Rating 3		
Metered	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
Pro Systems	16,800	3.5	30,300	10.4	33,500	15.0	11.6 @ 12.0
DER 110 WS	16,800	3.5	30,300	10.4	33,500	15.0	11.6 @ 12.0
DER 115 WS	24,300	5.0	43,700	14.5	48,600	22.5	11.9 @ 15.0
DER 120 WS	32,400	6.7	58,300	19.3	64,800	30.0	13.2 @ 15.0
DER 175 WS	12,800	2.6	23,200	7.8	25,600	11.3	10.7 @ 15.0
DER C10 WS	16,800	3.5	30,300	10.4	33,500	15.0	11.6 @ 12.0

* 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 hardness reduction data for table 1 of 2 were conducted in accordance with NSF Standard 44. Studies conducted on sulfonated poly-styrene di-vinyl benzene (SSDVBC) cation exchange media have documented that if hardness is reduced to less than 1.0 grain per gallon (17.1 mg/l), then barium and radium will also be effectively reduced. Thus, the capacity of these device for reducing barium and/or radium are based on the hardness reduction capacity ratings displayed above. This device is efficiency rated (ER) at the lowest salt dosages displayed for each model (i.e. "Rating 1").

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
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