



December 30, 2008

CULLIGAN INTERNATIONAL
ANNA K. LEVOY
9399 W HIGGINS RD SUITE 1100
ROSEMONT IL 60018

Re: Description: WATER TREATMENT DEVICE- SOFTENER
Manufacturer: CULLIGAN INTERNATIONAL
Product Name: CULLIGAN SMART SENSOR GOLD SERIES AUTOMATIC WATER
CONDITIONERS (POE/ER)
Model Number(s): 9-INCH AS, 9-INCH SM, 10-INCH AS, 10-INCH SM, 12-INCH AS, 12-INCH SM,
14-INCH AS AND 14-INCH SM (POE/ER)
Product File No: 20080610

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 December 2013.

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.
- These devices are not approved for the reduction of bacterial, colloidal or organically bound forms of iron.

The water must be tested to speciate the iron present to determine if these devices can provide adequate treatment.

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 20080610
 TABLE 1 OF 1**

Model Numbers	Capacity*						Flow Rate vs. Pressure Loss
	Rating 1		Rating 2		Rating 3		
Smart Sensor Gold Series	Grains	Pounds	Grains	Pounds	Grains	Pounds	gpm @ psig
Metered							
9-INCH AS	19,086	4.0	26,301	8.0	30,787	12.0	9.0 @ 14.0
9-INCH SM	19,086	4.0	26,301	8.0	30,787	12.0	9.0 @ 14.0
10-INCH AS	28,629	6.0	39,451	12.0	46,180	18.0	9.4 @ 15.0
10-INCH SM	28,629	6.0	39,451	12.0	46,180	18.0	9.4 @ 15.0
12-INCH AS	35,614	8.0	51,659	16.0	60,532	24.0	10.0 @ 15.0
12-INCH SM	35,614	8.0	51,659	16.0	60,532	24.0	10.0 @ 15.0
14-INCH AS	53,540	12.0	77,660	24.0	90,986	36.0	10.6 @ 15.0
14-INCH SM	53,540	12.0	77,660	24.0	90,986	36.0	10.6 @ 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 Standard 44 and performed by NSF International. These devices are also approved for the reduction of up to 5.0 mg/l dissolved iron; the testing/rationale to support the dissolved iron reduction claim was provided by the national Water Quality Association (WQA) in Lisle, IL. These devices are also approved for reducing radium from a maximum influent concentration of 25 pCi/l to \leq 5 pCi/l. These devices are approved for the reduction of barium from a maximum influent of 10.0 mg/l to \leq 2.0 mg/l. These devices are efficiency rated (ER) at the lowest salt dosages displayed for each model (i.e. "Rating 1").

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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