



July 8, 2014

CULLIGAN INTERNATIONAL
YE LIU
9399 W. HIGGINS ROAD, STE 1100
ROSEMONT IL 60018

Re: Description: WATER TREATMENT DEVICE - ANION EXCHANGE
Manufacturer: CULLIGAN INTERNATIONAL
Product Name: WHOLE HOUSE NITRATE REMOVAL CONDITIONER
Model Number(s): HE 9 INCH NITRATE, HE 12 INCH NITRATE AND HE 14 INCH NITRATE
Product File No: 20140137

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 2019.

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 devices shall be provided with one of the following means to warn the user when the system is not performing its function:
 1. a nitrate/nitrite monitor on the product water stream; or
 2. a sampling and analysis kit for nitrate/nitrite with explicit instructions of recommended frequency of analysis.
- These devices shall be programmed for a 25 percent minimum reserve capacity.
- When these devices are installed on copper water supply systems, the copper piping downstream of these treatment devices must be protected from corrosion due to the lack of alkalinity. Alkalinity is required to stabilize copper piping via the formation of an inert passivating layer.

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.

**NITRATE REDUCTION CAPABILITIES
 PRODUCT FILE NUMBER 20140137
 TABLE 1 OF 1**

Flow rates: 9-inch = 4.0 gallons per minute (gpm) @ 3.0 pounds per square inch gauge (psig)
 12-inch = 8.0 gpm @ 6.9 psig
 14-inch = 12.0 gpm @ 14.3 psig

Model Numbers Culligan High Efficiency Nitrate Reduction Conditioners	Capacity*					
	Rating 1		Rating 2		Rating 3	
	Grains	Pounds	Grains	Pounds	Grains	Pounds
9-Inch	9,815	8.0	11,605	10.0	12,382	15.0
12-Inch	19,630	16.0	23,210	20.0	24,764	30.0
14-Inch	29,445	24.0	34,815	30.0	37,146	45.0

* The capacity ratings are based on 30 mg/l nitrate (NO₃⁻) as N and 44 mg/l sulfate (SO₄⁻²) expressed in grains per gallon (gpg) as calcium carbonate (CaCO₃) and is related to the pounds of salt required for each regeneration. The testing was performed by Culligan International using a DSPS approved protocol comprised of pertinent elements of NSF Standards 44 and 53.

1 gpg = 17.1 mg/l

1 grain = 64.79891 mg

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
 Department of Safety and Professional Services
 Division of Industry Services
 Bureau of Technical Services
 (608) 267-1401 Phone
 (608) 267-9723 Fax
 glen.schlueter@wi.gov E-mail