



August 21, 2012

PENTAIR RESIDENTIAL FILTRATION LLC
GARTH BABCOCK
5730 N. GLEN PARK ROAD
MILWAUKEE WI 53209

Re: Description: WATER TREATMENT DEVICE - POU REVERSE OSMOSIS
Manufacturer: PENTAIR RESIDENTIAL FILTRATION LLC
Product Name: PENTAIR
Model Number(s): PP4RO-75
Product File No: 20120302

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 August 2017.

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 this approved device is 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 will only reduce the concentration of cysts/oocysts at water outlets that are served by the devices. Therefore, using point-of-use devices such as these will not protect all routes of potential exposure. Potentially hazardous exposures to cysts/oocysts will remain possible at unprotected outlets.

The presence of cysts/oocysts strongly suggests that other pathogens (e.g. bacteria, virus) may also be present.

If, by way of reputable water analyses, a water supply is known to contain cysts/oocysts, then all the water entering the residence must be treated at the point-of-entry, using an approved water treatment device, to address all potential routes of exposure thereby providing a biologically safe water supply.

- The integral air gap within the faucet serving this device shall conform to American Society of Mechanical Engineers (ASME) Standard A112.1.2-2004

- The system shall be provided with an in-line total dissolved solids (TDS) monitor, or other acceptable means, to warn the user when the system is not performing it's functions. Acceptable alternatives to an in-line TDS monitor include:
 1. terminating the discharge of treated water;
 2. sounding an alarm which is connected to acceptable power source;
 3. flashing a light connected to an acceptable power source;
 4. providing the user with an obvious, readily interpretable, indication of the system's ability to perform (e.g. decreasing the flow rate of treated water by 50% or more for systems making mechanical filtration claims;
 5. providing a sampling service by the manufacturer, either directly or through an authorized dealer, a minimum of once every six months;
 6. providing a sampling kit for analysis of TDS or other appropriate contaminants; or
 7. providing a TDS monitor to measure the product water quality.

Whichever means of performance verification is selected, it shall be clearly described in the owner's manual for this device, and approved for use along with the device.

- In addition to the product water quality monitor specified elsewhere in this letter, this device shall be provided with one of the following means to warn the user when the system is not performing its function:
 - a. a nitrate/nitrite monitor on the product water stream; or
 - b. a sampling and analysis kit for nitrate/nitrite with explicit instructions of recommended frequency of analysis.

Based on testing data submitted to and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 4 of this letter.

**HEALTH EFFECTING INORGANIC CONTAMINANT REDUCTION CAPABILITIES
 PRODUCT FILE NUMBER 20120302
 TABLE 1 OF 3**

Production Rate: 93.9 liters per day (lpd) [24.8 gallons per day (gpd)]

Tested Contaminant	Influent Challenge (mg/l) ¹
Arsenic (As ⁺⁵)	0.30 ± 10%
Barium (Ba ⁺²)	10.0 ± 10%
Cadmium (Cd ⁺²)	0.03 ± 10%
Hexavalent Chromium (Cr ⁺⁶)	0.15 ± 10%
Trivalent Chromium (Cr ⁺³)	0.15 ± 10%
Copper (Cu ⁺²)	3.0 ± 10%
Fluoride (F ⁻¹)	8.0 ± 10%
Lead (Pb ⁺²)	0.15 ± 10%
Nitrate (NO ₃ ⁻)	27.0 ± 10%
Nitrite (NO ₂ ⁻)	3.0 ± 10%
Radium 226/228 (Barium surrogate) ³	25 pCi/l
Selenium (Se ⁺⁴ and Se ⁺⁶)	0.10 ± 10%

Pentair Residential Filtration LLC
August 21, 2012
Page 4 of 4
Product File No.: 20120302
(continued from previous page)

≥ 50%; meeting the free chlorine reduction requirements also qualifies the device for the reduction of aesthetic, organic, taste and odor reduction (e.g. geosmin, methylisoborneol); this does not include hydrogen sulfide.

1 = milligrams per liter (mg/l) are equivalent to parts per million (ppm)
± = plus or minus

≥ = greater than or equal to

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
Safety and Buildings Division
Department of Safety and Professional Services
(608) 267-1401 Phone
(608) 267-9566 Fax
glen.schlueter@wi.gov Email
7:30AM - 4:30PM CT Work Hours

GWS:gws