
December 5, 2007

TROJAN TECHNOLOGIES
RESIDENTIAL/COMMERCIAL
BRUCE LAING/TODD HORSFIELD
3020 GORE ROAD
LONDON
ONTARIO CANADA N5V 4T7

Re: Description: WATER TREATMENT DEVICE-ULTRAVIOLET
Manufacturer: TROJAN TECHNOLOGIES
Product Name: TROJAN UVMAX
Model Number(s): PRO 7, PRO 10, PRO 15, PRO 20 AND PRO 30
Product File No: 20070463

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 2012.

This approval supersedes the approval issued on April 19, 2007 under product file number 20060557.

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.
- These devices must be installed with a 254 nanometer wavelength narrow band ultra violet monitor. The monitor must energize the normally closed inlet solenoid at a minimum ultra violet dosage of 40,000 microwatt-seconds per square centimeter (40 millijoules) at a wavelength of 254 nanometers.
- If these devices are used for the treatment of surface waters, or groundwaters affected by surface waters, then pre-filters approved by this department for cyst reduction must be installed upstream of these devices.
- These devices must be installed with automatic fixed flow rate controls that prevent flow above the manufacturer's maximum rated flow over the operating pressure range recommended by the manufacturer. The flow controls must be installed on the outlets of these devices.
- The normally open solenoid valves must be installed on the inlets of these devices.

- 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.

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.

**HEALTH EFFECTING BIOLOGICAL CONTAMINANT REDUCTION CAPABILITIES
PRODUCT FILE NUMBER 20070493
TABLE 1 OF 1**

Flow Rate: Pro 7 = 31.0 Liters per minute (lpm) [8.2 gallon per minute (gpm)]
Pro 10 = 37.9 lpm (10.0 gpm)
Pro 15 = 67.4 lpm (17.8 gpm)
Pro 20 = 75.7 lpm (20 gpm)
Pro 30 = 113.6 lpm (30 gpm)

Lamp Replacement Interval: 12 months (max.)

| Tested Contaminant | Influent Challenge (PFU/ml) ² |
|--------------------------------|--|
| MS2 Bacteriophage ¹ | ≥ 5.0 x 10 ⁴ |

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with NSF *International* Standard 55. To qualify for Class A performance, the device must reduce the influent challenge concentrations by an amount ≥ that achieved using an UV dosage of 40 mJ.

¹ = ATCC 15597-B
≥ = greater than or equal to

² = plaque forming units per milliliter

These Class A systems conform to NSF Standard 55 for the disinfection of microbiologically contaminated water that meets all other public health standards. These systems are not intended for the treatment of water that has an obvious contamination source (i.e. raw sewage), nor are these systems intended to convert wastewater to microbiologically safe drinking water. These systems are intended for installation on optically clear water (not colored, cloudy, or turbid water).

These devices were tested under controlled laboratory, or field, conditions. The actual performance of these devices for specific end use installations 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 that 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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