



July 28th, 2011

REVISED COPY

NEW WAVE INDUSTRIES
PUR-WATER
CHARLIE BORCHARD
3315 ORANGE GROVE AV
NORTH HIGHLANDS CA 95660

Re: Description: GRAYWATER REUSE SYSTEM
Manufacturer: NEW WAVE INDUSTRIES
Product Name: PURWATER RECOVERY SYSTEMS
Model Number(s): 100-5MAS SERIES (30 GPM), 100-5M6O SERIES (30 GPM),
100-5M12O SERIES (30 GPM), 200-5MAS SERIES (60 GPM),
200-5MAS SERIES (60 GPM), 200-5M12O SERIES (60 GPM),
200-5M12O SERIES (60 GPM), 200-5M24O SERIES (60 GPM),
300-5MAS SERIES (90 GPM), 300-5M12O SERIES (90 GPM),
300-5M24O SERIES (90 GPM), 350-5MAS SERIES (120 GPM),
350-5M12O SERIES (120 GPM), 350-5M24O SERIES (120 GPM),
400-5MAS SERIES (160 GPM), 400-5M12O SERIES (160 GPM),
400-5M24O SERIES (160 GPM), 700-5M24O SERIES (225 GPM) AND
700-5M12O SERIES (225 GPM). AS=AIR SPARGING. O=OZONE. MODEL
NUMBERS CONTAINING AN "O" USE AN OZONE GENERATOR AND MAY BE
USED WITH OR WITHOUT THE AQUALINK OPTION. ANY OF THE 100, 200,
300 AND 350 SERIES MODELS MAY BE USED WITH THE "EXTREME"
CABINET RESULTING IN A MODEL NUMBER ENDING IN "X."
Product File No: 20110192

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 July 2016.

This approval is contingent upon compliance with the following stipulation(s):

- A site specific plan review is required for all proposed installations of these devices.
- All finished installations are subject to a final inspection by the Plumbing Consultant having jurisdiction. To identify the Plumbing Consultant having jurisdiction, first identify the county in which the proposed installation is taking place; then use the following link to access a map of Plumbing Consultant territories:

<http://dsps.wi.gov/sb/SB-PlumbingConsultantsMap.html>

- The influent wastewater to these devices is limited to water softener backwash and clear water waste. "Clear water" waste is defined in s. Comm 81.01 (56).
- All water outlets shall be labeled in accordance with s. Comm 82.40-1a.

- The effluent from these systems shall be tested annually for the following:
 1. ph (6-9 pH units)
 2. BOD5 (\leq 10 mg/l)
 3. TSS (\leq 5 mg/l)
 4. Free chlorine residual [or equivalent] (\geq 1.0 to \leq 4.0 mg/l)
- The minimum tank requirement for these systems is a two compartment, baffled, 1,500 gallon tank. The tank size for a given installation is determined via the following formula:

wash site flow rate (gpm) x 50 minutes of retention time (min.) = required tank capacity (gals.)

[gals./min. x min. = gals.]

If the proposed installation site doesn't meet these minimum tank requirements, then these devices shall not be installed.
- When ozone (O₃) is used, the concentration of O₃ in the generator exit gas shall be \geq 1% by weight. In addition, the minimum CT value is 4.41 at 20C. "CT" is the product of the residual O₃ concentration (C) in mg/l determined at the inlet of the first tank compartment and the corresponding contact time (T) in minutes, C x T.

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
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GWS:gws