



Scott Walker, Governor
Dave Ross, Secretary

August 10, 2015 (re-issued May 19, 2016)

DELTA ENVIRONMENTAL INC.
PENTAIR PUMP GROUP
MIKE CATANZARO
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DENHAM SPRINGS LA 70726

Re: Description: SEWAGE TREATMENT SYSTEMS, AERATED
Manufacturer: DELTA ENVIRONMENTAL INC.
Product Name: ECOPOD® FIXED FILM WASTEWATER TREATMENT UNITS
Model Number(s): DELTA E50FF, E60FF, E75FF, E100FF AND E150FF
[FOR TANK VOLUMES OF PRIMARY, REACTOR AND TANK; AND RATED CAPACITY
IN G.P.D. SEE TABLE 2. BELOW]
Product File No: 20140163

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 2020.**

This approval supersedes the approval issued on 7/23/2009 under product file number 20090268.

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

- This tank must be designed to withstand the pressures to which it will be subjected.
- The manufacturer must keep at the manufacturing plant a set of plans and specifications bearing the department's stamp of approval. The plans and specifications must be open to inspection by an authorized representative of the department.
- Individual system plan approval must be obtained from this department's Section of Private Sewage or the appropriate agent county for each installation of this product prior to its installation.

TABLE 2
ECOPOD CALCULATED VOLUMES
& RATED CAPACITY

MODEL	PRIMARY CHAMBER* Vp (gals.)	REACTOR CHAMBER Vr (gals.)	TANK VOL. Vt (gals.)	RATED CAPACITY GPD
E50FF	500-1000	580	700	500
E60FF	600-1200	736	870	600
E75FF	750-1500	870	1050	750
E100FF	1000-2000	1160	1400	1000
E150FF	1500-3000	1740	2100	1500

*The primary tank required can be a single compartment tank with the required volume and approved for use in the State of Wisconsin.

- All manhole covers terminating at or above grade must have effective locking devices.
- Before this product is installed a warning label meeting the requirement of SPS s. 384.25 (8) (b), Wis. Admin. Code must be securely attached to the manhole cover.
- This product must be installed by a properly licensed plumber.
- This product must be utilized in accordance with the manufacturer's printed installation instructions and this product approval. If there is a conflict between the manufacturer's installation instructions and the product approval, the product approval requirements will take precedence.
- The department may require metering or monitoring of the effluent from this product to evaluate the operation and compliance to SPS 383.44 effluent quality parameters.
- The owner is responsible for maintaining and testing this POWTS product verifying it complies with code effluent quality parameters.
- For commercial use in establishments with food service, full service restaurants, and similar facilities, state-approved upstream grease interceptor of an acceptable size and treatment performance must be installed to bring wastewater parameters to acceptable levels. Tank must allow for min. of 2-day residency time of average DWF.
- The performance expectation of this product is dependent on the specific contaminant load associated with the maximum daily discharge in gallons per day. The quality of influent discharged into a POWTS treatment or dispersal component consisting in part of in situ soil shall be equal to or less than all of the following:
 1. A monthly average of 30 mg/L fats, oil and grease.
 2. A monthly average of 220 mg/L BOD5.
 3. A monthly average of 150 mg/L TSS
 An exception is provided in Table 383.44-2 where downsizing may occur where the effluent has a monthly average of <30 mg/L BOD5 and <30 mg/L TSS.

TABLE 1 (revised)
 MAINTENANCE, INSPECTION, PUMPING REQUIREMENTS
 DELTA ENVIRONMENTAL
 (ECOPOD E50FF, E60FF, E75FF, E100FF, E150FF)

Initial/Startup Inspection/ Maintenance	Two-year service policy
Routine Inspection/Maintenance	6-month effluent quality and reactor tank sludge levels; electrical./mechanical inspection
Ongoing Pumping Cycle And/Or Requirements	Pumping interval related to depth of sludge when necessary; or as per local requirements
NSF 40 Effluent Standard*	NSF 40 Class 1 Effluent Standard*
BOD5 Credit For Downsizing Distribution Area	YES
Fecal Credit For Reduction Of Vertical Separation	YES
Additional Comments	See manufacturers instructions for prohibitions of chemical substances introduction (R.11/07)

* NOTE: NSF/ANSI 40 Effluent Standard - Class I, Class 2, and None or NA

- The minimum depth of unsaturated soil for treatment purposes is 24, 36 or 60 inches dependent on the monthly average fecal coliform concentrations of the treated wastewater, soil texture and percent coarse fragments as specified in Table 383.44-3.

- When this product receives wastewater from dwellings and is granted downsizing and vertical separation credits as allowed in Tables 383.44-2 and 383.44-3, it shall produce an effluent quality with a maximum monthly average value of BOD5, TSS and FOG. of less than or equal to 30mg/L and fecal coliform of less than or equal to 10,000 cfu/100ml to stay compliant with SPS 383.44 effluent quality parameters.
- Bedding: Place on undisturbed level bedding using sand for fill; for installation on rock a min. 6 in. of sand bedding is required.
- The Division of Industry Services reserves the right to amend/revise this document as conditions arise for code compliance and/or to protect public health and waters of the state.

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,

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