



Scott Walker, Governor
Dave Ross, Secretary

August 7, 2015 (re-issued May 19, 2016)

DELTA ENVIRONMENTAL INC.
PENTAIR PUMP GROUP
MIKE CATANZARO
8263 FLORIDA BLVD.
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DENHAM SPRINGS LA 70726

Re: Description: SEWAGE TREATMENT SYSTEMS, AERATED
Manufacturer: DELTA ENVIRONMENTAL INC.
Product Name: ECOPOD SUBMERGED FIXED FILM AERATED WASTEWATER TREATMENT SYSTEMS
Model Number(s): E100-CA AND E150-CA
[MAX. DWF 1000 GDP (E100-CA) and 1500 GPD (E150-CA)]
Product File No: 20130193

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

- 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.
- This product must be installed by a properly licensed plumber.
- 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 maximum daily wastewater flow, which may discharge through this product, is 1000 gallons per day for the E100-CA and 1500 gallons per day for the E150-CA.
- This product must be utilized in accordance with the manufacturer's printed Wisconsin 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 ECOPOD CA Series may be inserted in Wisconsin State approved tanks meeting the following specifications.

Calculated volumes:	E100CA	E150CA
	(gal)	(gal)
Vp – Primary chamber Volume *	1000 - 2000	1500 - 3000
Vr – reactor chamber Volume	1400 - 2240	2100 - 3360
Min. Discharge Elevation	42 in.	42 in.

*The primary tank required for the ECOPOD units can be any single compartment tank with the required above volume that are approved in the state of Wisconsin for septic tanks.

- 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 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 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.
- 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.
- The owner is responsible for maintaining and testing this POWTS product verifying it complies with code effluent quality parameters.

Table 1
 Maintenance, Inspection, Pumping Requirements
 Delta Environmental
 (ECOPOD E100CA, E150CA)

Initial/Startup Inspection/ Maintenance	Two-year service policy
Routine Inspection/Maintenance	6-month effluent quality and reactor tank sludge levels
Ongoing Pumping Cycle And/Or Requirements	Pumping interval related to 15-inch depth of sludge when necessary; or as per local requirements
Back-Wash Cycle NSF 40 Effluent Standard*	N/A
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	Water softener discharges not recommended

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

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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