



Douglas A. Ducey  
Governor

# ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Misael Cabrera  
Director

## Notice of Proprietary Treatment Product Listing Pursuant to Arizona Administrative Code R18-9-A309(E) ADEQ LTF #68708

### 1. Proprietary Treatment Product Name, Model, and Description

Product Name: Ecopod-N Series Models

Models: E50-N, E60-N, E75-N, E100-N and E150-N

Description: The Ecopod-N series is a fixed film wastewater treatment system. It consists of a reactor tank where septic tank effluent is introduced to an oxygen rich environment. In this environment, bacteria grow on engineered plastic media to treat the septic tank effluent. This reactor tank contains a clarifier and anoxic zone where nitrogen removal also takes place. This listing is applicable for design flows less than 3,000 gpd.

### 2. Manufacturer Information

Name: Delta Environmental

Address: 8263 Florida Blvd.

City/State/Zip: Denham Springs, LA 70726

Phone: (225) 665-6162

Fax: (225) 665-1422

Website: [www.deltaenvironmental.com](http://www.deltaenvironmental.com)

### 3. Recognized Treatment Performance

Parameter	Averaging Time	Parameter Value for Averaging Time
5-Day Biochemical Oxygen Demand (BOD <sub>5</sub> ), mg/l	30-day arithmetic mean	10
Total Suspended Solids (TSS), mg/l	30-day arithmetic mean	8
Total nitrogen as nitrogen(TN), mg/l	five-month arithmetic mean	20
Total coliform, colony forming units/100ml	95th percentile	300,000*

\* Default value due to the lack of submitting sufficient 3<sup>rd</sup> party test data per R18-9-E315.B.1.d.

#### Main Office

1110 West Washington Street • Phoenix, AZ 85007  
(602) 771-2300

#### Southern Regional Office

400 West Congress Street • Suite 433 • Tucson, AZ 85701  
(520) 628-6733

[www.azdeq.gov](http://www.azdeq.gov)

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**4. Product Applicability and Limitations for Use for a Recognized General Permit Technology**

**Applicability:** This listing is for the Ecopod-N series models, only, and is listed as aerobic treatment technology as specified in A.A.C. R18-9-E315. This product shall be used in conjunction with a separate septic tank.

**Limitations:**

- a. The product, including the pretreatment works, is subject to A.A.C. R18-9-A312(F)(2) through (4).
- b. The product shall only process septic tank effluent or better quality from a septic tank that meets the requirements of R18-9-A314.
- c. The product shall conform to the following:

Maximum Design Flow (gallons per day) per R18-9-A309(B)(3)	Manufacturer's Model Number
500	E50-N
600	E60-N
750	E75-N
1000	E100-N
1500	E150-N

- d. This listing EXCLUDES appurtenances which are considered to be an alarm, control panel, control, switch, timer, wiring, other electrical devices, and installation components; which are subject to both the manufacturer specifications and any more restrictive requirement in 18 A.A.C. 9, Article 3.
- e. This listing is for treatment of wastewater that meets the definition of typical sewage as defined in R18-9-101(42).
- f. The requirement of R18-9-A312(B)(4)(e) has been met by providing twenty four hour emergency storage of wastewater within the unit itself.

**5. Alternative Criteria and Exceptions for Use under the Recognized General Permit Technology**

<b>Alternative:</b>	None
<b>Exception:</b>	<ul style="list-style-type: none"> <li>a. When the wastewater does not meet the definition of typical sewage as defined in R18-9-101(42), a Manufacturer's Design Review Report shall be submitted for review and approval along with the Notice of Intent to Discharge. This Design Review Report shall specify component capacities, control settings, and supplemental installation &amp; operational practices.</li> </ul>

**6. Documents Used as the Basis for this Proprietary Treatment Product Listing Notice**


Application for Treatment Product Listing:	Tab #1, Arizona PPL Application, Dated 8/11/17
Summary Information:	Tab #2, Letter from Delta Environmental dated October 31, 2017
3 <sup>rd</sup> Party Test data:	Tab #3, NSF Standard 40 and 245 – Ecopod E50-N Wastewater Treatment System, March, 2010.
Data Sheets:	Tab #4, Fixed Film Wastewater Treatment System Design Manual
Installation Instructions:	Tab #5, Arizona Ecopod-N Series Fixed File Wastewater Treatment System Installation, Operation and Maintenance Manual, dated June 8, 2015
Manufacturer's Warrantee:	Tab #6, Page 92 of NSF 40 Report, dated March of 2010
Operation & Maintenance Manual:	Tab #5

**NOTE 1** – This document is an integral part of this Proprietary Treatment Product Listing Notice and is included in the Arizona Department of Environmental Quality website at:

[http://static.azdeq.gov/pub/list\\_prop\\_products.pdf](http://static.azdeq.gov/pub/list_prop_products.pdf)

**7. Terms and Conditions for this Proprietary Treatment Product Listing Notice**

- a. This Notice of Proprietary Treatment Product Listing shall remain in effect until any of the following occurs:
  - 1) Applicable provisions of the Arizona Administrative Code, Title 18, Chapter 9, Article 3 are revised;
  - 2) Documents used for the basis of this listing are altered or modified;
  - 3) Manufacturer claims which are relied upon for this listing are later determined to contain an error or omission;
  - 4) The manufacturer requests termination of this listing;
  - 5) A listing error or omission is identified; or
  - 6) The manufacturer and ADEQ mutually agree to reissue this notification to incorporate a correction or update for any reason.
- b. This Notice of Proprietary Treatment Product Listing does not apply when the:
  - 1) Listed proprietary treatment product is modified or operated in a manner that conflicts with Arizona law or the documents used for the basis of this listing action in Section 6.
  - 2) Listed proprietary treatment product is used in a manner that cannot achieve the performance stated in Section 3 above.
- c. This Notice of Proprietary Treatment Product Listing applies solely to the product specified in Section 1 above.
- d. The manufacturer is responsible for notifying ADEQ of changes to contact information at the following address:
  - Ground Water Monitoring & Engineering Unit
  - Engineering Review Desk, 5<sup>th</sup> Floor
  - 1110 West Washington Street
  - Phoenix, AZ 85007.
- e. The listing by ADEQ of any proprietary product or service is not an endorsement by ADEQ or the State of Arizona. ADEQ does not endorse, represent, guarantee, warranty or defend the use of any product which is authorized for use pursuant to A.A.C. R18-9-A309(E). Product providers are a direct source unrelated to ADEQ or the State of Arizona. Use of any listed product is at the user's risk and the State assumes no liability.

<b>Signature:</b>	 David Dunaway	<b>Date Signed:</b>	1/16/13
<b>Title:</b>	Groundwater Value Stream Manager		

ADEQ LTF #68708  
 Reviewer: Raymond Morgan