



Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Henry R. Darwin
Director

Notice of Proprietary Treatment Product Listing Pursuant to Arizona Administrative Code R18-9-A309(E) ADEQ File No. 20100071

1. Proprietary Treatment Product Name, Model, and Description

Product Name: Enviro-Guard
Model: ENV-0.75 & ENV-0.75M
Description: The Enviro-Guard Treatment System is a combination of primary treatment, flow equalization, and secondary treatment by both fixed-growth and suspended-growth aerobic processes. The system consists of three treatment chambers in one compact pre-engineered unit. First chamber is a 500-gallon solid separation preliminary tank, the second chamber is a 500-gallon flow equalization timer controlled dosing tank also called pump chamber. The third chamber is 750 gallon watertight processing tank with a mechanical aerator. Model ENV-0.75M consists of a modular design with the pretreatment and dosing tank as two separate 500 gallon tanks or as one two-compartment 1000 gallon tank.

2. Manufacturer Information

Name: Consolidated Treatment Systems, Inc.
Address: 1501 Commerce Center Drive
City/State/Zip: Franklin, OH. 45005-1891
Phone: 937-746-2727
Fax: 937-746-1446
Website: www.consolidatedtreatment.com

3. Recognized Treatment Performance

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

NOTE 1 DOCUMENTATION PACKAGE FOR TREATMENT PRODUCT LISTING

<http://www.azdeq.gov>

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

<p>Applicability: This listing is for the treatment technology specified in A.A.C. R18-9-E315.</p> <p>Limitations:</p> <ul style="list-style-type: none"> A. This product is only approved for design flow per A.A.C. R18-9-A309 (B)(3) up to 750 gpd for both residential and commercial domestic wastewater flow. B. This listing is only for technology approved in accordance with A.A.C. R18-9-E315 it does not include any other technology/products including disinfection devices. C. This listing EXCLUDES appurtenances which are considered to be “other manufactured materials and components” such as 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..
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5. Alternative Criteria and Exceptions for Use Under the Recognized General Permit Technology

Alternative Criteria:	
Exceptions:	<p>R18-9-E315(B&C)- Proposed exception for effluent having BOD₅ and TSS equal to but not less than 10 mg/l .</p> <p>R18-9-E315(B&C)- Proposed total nitrogen reduction equal to but not less than 30 mg/l.</p> <p>R18-9-E315(D)(3) – The product meets the requirements to provide a clarifier by integrating a no by-pass mechanical filtration at a nominal 100 microns and weir plate.</p>

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

Application for Treatment Product Listing:	03/25/2010 (NOTE 1)
Third party test data:	NSF EG UV REPORT, dated January, 2005.
Parts List:	Page 1 of Appendix E of Wastewater Treatment Unit Program Evaluation Report by NSF EG Report, Dated December, 2004.
Installation Instructions:	Revised Installation, Operation, Maintenance (O&M) Manual, and Troubleshooting Manual, April, 2009. (NOTE 1)
Manufacturer’s Warrantee:	Under Owner’s Manual (Page # 9), June, 2004.
Manufacturer’s Specifications:	APPENDIX A (4 PAGES) (NOTE 1)
Owner’s Manual	Owner’s Manual, Total 9 pages, Revised October, 2004. (NOTE 1)
<p>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://www.azdeq.gov/environ/water/permits/download</p>	

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:
 - i. Applicable provisions of the Arizona Administrative Code, Title 18, Chapter 9, Article 3 are revised;
 - ii. Documents used for the basis of this listing are altered or modified;
 - iii. Manufacturer claims which are relied upon for this listing are later determined to contain an error or omission;
 - iv. The manufacturer requests termination of this listing;
 - v. A listing error or omission is identified; or
 - vi. The manufacturer and ADEQ mutually agree to reissue this notification to incorporate correction or update for any reason.
- B. This Notice of Proprietary Treatment Product Listing does not apply when the:
 - i. 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.
 - ii. Listed proprietary treatment products is used in a manner that cannot be achieved the performance 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 the ADEQ of changes to contact information at the following address:
 - Attention: Product Listing Supervisor
 - Engineering Review Desk,
 - 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.

Signature:		Date Signed:	10/12/11
Title:	Director, Water Quality Division		

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 ADEQ File #:20100071
 Reviewer:tf1