



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 File No. 20170068

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

Product Name: Ecoflo Coco Filter ECDn Model Series

Models: 500, 600, 865, 1000, 1100, and 1500

Description: The ECDn unit consist of an Ecoflo Coco Filter to which a recirculation loop is added to provide aerobic and anoxic zones which promote nitrogen reduction. The system is composed of a septic tank, a flow regulation device and an Ecoflo Coco filter. This listing is applicable for design flows up to 24,000 gpd.

### 2. Manufacturer Information

Name: Premier Tech Aqua, a division of Premier Tech Inc.

Address: 1881 West North Temple

City/State/Zip: Salt Lake City, UT 84116

Phone: (418) 867-8883

Fax: (418) 862-6642

Website: <http://www.premiertechaqua.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	5
Total Suspended Solids (TSS), mg/l	30-day arithmetic mean	3
Total nitrogen as nitrogen(TN), mg/l	five-month arithmetic mean	19
Total coliform, colony forming units/100ml	95th percentile	100,000*

\* Default value due to the lack of submitting sufficient 3<sup>rd</sup> party test data per R18-9-E311(B).

#### 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 Coco Filter, only, and is listed as Peat Filter treatment technology specified in A.A.C. R18-9-E311. This product shall be used in conjunction with a septic tank for pretreatment.

**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 treat septic tank effluent or better quality.
- c. The maximum loading rate is 14.1 gallons per day per square foot
- d. The product shall conform to the following:

Maximum Design Flow (gallons per day) per R18-9-A309(B)(3)	Manufacturer's Model Number
500	ECDn -500
600	ECDn - 600
865	ECDn - 865
1000	ECDn -1000
1100	ECDn - 1100
1500	ECDn - 1500

- e. 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.
- f. This listing is for treatment of wastewater that meets the definition of typical sewage as defined in R18-9-101(42).
- g. The manufacturer recommends inspection of the media around year 8 of service in addition to the routine maintenance.
- h. 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. The media loading rate shall not exceed 14.1 gallons per day per square foot of filter media.</li> <li>b. 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, Date 3/16/17
Summary Information:	Tab #2, Summary of Controlled and Field Demonstration Programs
3 <sup>rd</sup> Party Test data:	Tab #3, NSF Standard 40 and 245 - Premier Tech Aqua Ecoflo Coco Filter, ECDn Model Series, January 2016.
Data Sheets:	Tab #4, Product Technical Data Sheets dated July 22, 2016
Installation Instructions:	Tab #5, Ecoflo Coco Filter, Installation Guide - USA, dated March 8, 2016
Manufacturer's Warrantee:	Tab #6, Ecoflo Coco Filter, Residential Owner's Manual and Warrantee, dated June 15, 2016.
Operation & Maintenance Manual:	Tab #7, Maintenance, Sampling and Troubleshooting Guide

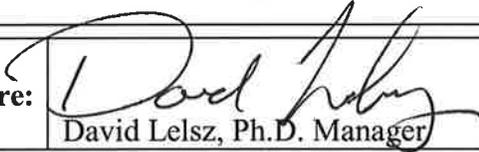
**NOTE 1** – This document is an integral part of this Proprietary Treatment Product Listing Notice and is included in the Arizona Department of Environmental Quality website at:

<http://www.azdeq.gov/environ/water/engineering/product.html>

**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 products 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 the 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 Lelsz, Ph.D. Manager	<b>Date Signed:</b> May 4, 2017
<b>Title:</b>	Ground Water Monitoring & Engineering Unit