

Katie Hobbs
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Karen Peters
Director

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

1. Proprietary Treatment Product Name, Model, and Description

Product Name: Orenco AdvanTex AX-Max
 Models: AX-Max025-07, AX-Max050-07, AX-Max050-14, AX-Max075-14, AX-Max100-14, AX-Max100-21, AX-Max125-21, AX-Max150-21, AX-Max150-28, AX-Max175-28, AX-Max200-28, AX-Max200-35, AX-Max225-35, AX-Max250-35, AX-Max250-42, AX-Max275-42, AX-Max300-42
 Description: The Orenco AdvanTex AX-Models are recirculating packed bed filters comprised of a recirculating tank, engineered textile filter module, recirculation pump, recirculation-splitter baffle, and related appurtenances. This PPL covers flows less than 75,000 gallons per day (using a combination of the models listed in the table below).

2. Manufacturer Information

Name: Orenco Systems, Inc.
 Address: 814 Airway Ave.
 City/State/Zip: Sutherlin, OR 97479
 Phone: (541) 459-4449
 Fax: (541) 459-2884
 Website: www.orenco.com

3. Recognized Treatment Performance

Parameter	Statistical Measure	Value
5-Day Biochemical Oxygen Demand (BOD ₅), mg/L	30-day arithmetic mean	9 mg/L
Total Suspended Solids (TSS), mg/L	30-day arithmetic mean	3 mg/L
Total Nitrogen as Nitrogen(TN), mg/L	five-month arithmetic mean	24 mg/L
Total Coliform, Colony Forming Units/100mL	95th percentile	100,000 log ₁₀ 5 CFU/100 mL

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

Applicability: This listing is only for the Orenco AdvanTex AX-Max and is listed as a textile filter technology specified in A.A.C. R18-9-E312.

Limitations:

- A. The Orenco AdvanTex AX-Max models must receive wastewater that is treated to a level equal to or better than specified in R18-9-E302(B). Additionally, the system must meet the oil and grease requirements of <75 mg/L as defined in the typical sewage definition in R18-9-101.
- B. The product shall conform to the following:

Maximum Design Flow (gallons per day) per R18-9-A309(B)(3)	Manufacturer's Model Number (Stand-alone Pretreatment Tank) Pump or Gravity Disposal
1,250	AX-MAX025-07
2,500	AX-MAX050-07
2,500	AX-MAX050-14
3,750	AX-MAX075-14
5,000	AX-MAX100-14
5,000	AX-MAX100-21
6,250	AX-MAX125-21
7,500	AX-MAX150-21
7,500	AX-MAX150-28
8,750	AX-MAX175-28
10,000	AX-MAX200-28
10,000	AX-MAX200-35
11,250	AX-MAX225-35
12,500	AX-MAX250-35
12,500	AX-MAX250-42
13,750	AX-MAX275-42
15,000	AX-MAX300-42

- C. This approval 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.
- D. This listing is for the treatment of wastewater that meets the definition of typical sewage in R18-9-101(42).
- E. The manufacturer recommends inspection of various components at specific intervals as outlined in the Operations and Maintenance manuals.
- 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.
- G. ADEQ approves the Design & Installation Manual, dated for this proprietary product. In addition, it should be noted that the Arizona Administrative Code (AAC) states the following: "if manufactured components are used, an applicant shall design, install, and operate the on-site wastewater treatment facility following the manufacturer's specifications" as per R18-9-A312(F)(2).

H. The product, including the pretreatment works, is subject to A.A.C. R18-9-A312(F)(2) through (4).

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

Alternative:	None
Exception:	<p>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 & operational practices.</p>

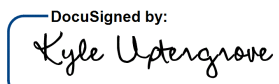
6. Documents Used as the Basis for this Proprietary Treatment Product Listing Notice

Application for Treatment Product Listing:	December 2, 2024
3 rd Party Test data:	AX20RTN-UV NSF Standard 40 dated May 2015 AX20RTN-UV NSF Standard 245 dated May 2025 Scale-Up/Equivalency Letter dated February 24, 2026
Installation Instructions:	AdvanTex AX-Max Treatment Units Installation Manual Revision 5 – December 2021
Manufacturer’s Warranty:	AdvanTex Treatment Systems Limited Warranty Revision 4 – February 2023
Manufacturer’s Specifications:	AdvanTex Design Criteria: <i>For Residential, Commercial, Municipal, and Mobile Applications: AX-Max Models</i> Rev 1 dated February 2026
Manufacturer’s Design Calculations & Drawings:	<ul style="list-style-type: none"> • AX Max 42’ Tank Design dated May 3, 2011 • AdvanTex AX-Max575 Pump Discharge dated May 10, 2022 • AdvanTex AX-Max125-21 Pump Discharge dated April 15, 2022 • AdvanTex AX-Max175-28 Pump Discharge dated April 15, 2022 • AdvanTex AX-Max225-35 Pump Discharge dated April 15, 2022 • AdvanTex AX-Max275-42 Pump Discharge dated April 15, 2022
Operation & Maintenance Manual:	AdvanTex O&M Manual – Start-UP, Maintenance, and Troubleshooting of AdvanTex AX-Max and AX-Mobile Wastewater Treatment Systems Revision 1 – June 2022
Site Specific Document Template:	AdvanTex Design/Engineering Binder - Commercial and Multi-Family Wastewater Treatment Systems Rev 4 dated March 2021

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

<p>A. This Notice of Proprietary Treatment Product Listing shall remain in effect until any of the following occurs:</p> <ol style="list-style-type: none"> 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 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 are used in a manner that cannot achieve 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 ADEQ of changes to the contact information at the following address:
 Attention: Groundwater Protection & Reuse Section, General Permits Unit
 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:	 <p style="font-size: small;">DocuSigned by: D1ACBBE2CFFE46F...</p>	Date Signed:	4/3/2026
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Title:	Kyle Uptergrove, Manager Groundwater Reclamation and Reuse, General Permits Unit
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ADEQ File# 20240542; LTF #106322
 Reviewer: LAL