



Douglas A. Ducey
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY



Henry R. Darwin
Director

Notice of Proprietary Treatment Product Listing Pursuant to Arizona Administrative Code R18-9-A309(E) ADEQ File No. 20140265

1. Proprietary Treatment Product Name, Model, and Description

Model: AK5B3, AK6B3, AK6PTC, AK800CA, and AK 10PTC
Description: AquaKlear, Inc. Wastewater Treatment Systems[®] is a combination of several treatment processes for treating domestic wastewater generated by normal households. The processes include primary treatment, extended aeration, and activated sludge process. All models have a single tank unit with different chamber configurations for different design flows.

2. Manufacturer Information

Name: AquaKlear, Inc.
Address: 876 N. Bierdeman Rd.
City/State/Zip: Pearl, MS. 39208
Phone: 601-936-7711
Fax: 936-7723
Website: www.AquaKlear.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	30
Total Suspended Solids (TSS), mg/l	30-day arithmetic mean	30
Total nitrogen (as nitrogen), mg/l	five-month arithmetic mean	53
Total coliform, colony forming units/100ml	95th percentile	300,000*

* Default value due to the lack of submitting 3rd party test data per R18-9-E315(B).

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

Applicability: This listing is for the treatment technology specified in A.A.C. R18-9-E315.

Limitations:

- A. This product is only approved for residential applications.
- B. This listing is only for technology approved in accordance with A.A.C. R18-9-E315 and does not include any other technology/product including disinfection devices.
- C. The treatment system shall conform to the following:

Manufacturer's Model Name	Number of Chambers	Treatment System Design Flow (gallons per day) (see NOTE C.1)	Treatment Tank Size (gallons)			
			Pump Chamber (gallon)	Pre-treatment Chamber (gallon)	Aeration Chamber (gallon)	Clarification Clarification (gallon)
AK5B3	4	500	751	424	517	188.5
AK6B3	4	600	751	424	520	188
AK6PTC	3	600	none	424	506	170
AK800CA	3	800	none	751	791	252
AK10PTC	3	1,000	none	751	791	252

NOTES:

B.1 – A.A.C. R18-9-A309(B)(3)

- D. 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.

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

Application for Treatment Product Listing:	October 21, 2014(NOTE 1)
3 rd Party Test data:	NSF Report, dated November 2005 & March 2010; Item 2 - Arizona PPL Applications 10/21/2014
Installation Instructions:	AquaKlear, Inc. Wastewater Treatment Systems® Installation, Operation & Maintenance & Trouble Shooting & Repair Manual Class1; Item 6 - Arizona PPL Applications 10/21/2014. NSF Report, dated March 2010; Item 2 - Arizona PPL

	Applications 10/21/2014
Manufacturer's Warrantee:	AquaKlear, Inc. Wastewater Treatment Systems® Owner's Manual Class 1-three years limited warranty; Item 5 - Arizona PPL Applications 10/21/2014.
Manufacturer's Specifications:	Engineering and Technical Analysis of the AquaKlear Treatment Units, ATTACHMENTS to Arizona PPL Applications 10/21/2014. AquaKlear, Inc. Wastewater Treatment Systems® Installation, Operation & Maintenance & Trouble Shooting & Repair Manual Class1, NSF Report, dated March 2010; Item 2 & 6Respectively - Arizona PPL Applications 10/21/2014.
Manufacturer's Design Calculations & Drawings:	Engineering and Technical Analysis of the AquaKlear Treatment Units, signed and sealed by Gary J. Beard, P.E. (Registration No.20068), dated July, 2011; ATTACHMENTS to Arizona PPL Applications 10/21/2014, Detail Design Drawings of the Tanks, signed and sealed by Marty Tittlebaum, P.E. (Registration No. 12691) - Arizona PPL Applications 12/10/13.
Owner's Manual:	AquaKlear, Inc. Wastewater Treatment Systems® Owner's Manual Class 1; Item 5 - Arizona PPL Applications 10/21/2014.
Operation & Maintenance Manual:	AquaKlear, Inc. Wastewater Treatment Systems® Installation, Operation & Maintenance & Trouble Shooting & Repair Manual Class1; Item 6 - Arizona PPL Applications 10/21/2014.

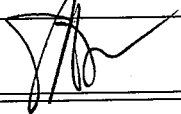
NOTE 1 – This document is an integral part of this Proprietary Treatment Product Listing Notice and is included in the Arizona Department of Environmental Quality website at:

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

6. 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:	2-17-2015
Title:	Director, Water Quality Division		