

Arizona Department Environmental Quality



Notice of Proprietary Treatment Product Listing Pursuant to Arizona Administrative Code R18-9-A309(E) **ADEQ LTF #77819**

1. Proprietary Treatment Product Name, Model, and Description

Product Name: Phoenix Composting Toilet

Models: R-199, R-200, R-201, PF-199, PF-200 & PF-201

Description:

The Phoenix Composting Toilet uses a biochemical process to treat human waste. The toilet provides an environment for aerobic decomposition. It is a miniature, on-site sewage treatment plant. It has an insulated tank, efficient ventilation system and automatic controls to assure the lowest possible heat and electrical requirements. The toilet also has built-in rotating tines and a vertical design to assure higher quality compost and easier, safer maintenance.

2. Manufacturer Information

Name:

Advanced Composting Systems LLC

Address: 195 Meadows Road

City/State/Zip:

Whitefish, Montana 59937

Phone:

406.862.3854

Website: www.compostingtoilet.com

3. Canadian Standards Association (CSA) & National Sanitation Foundation (NSF) - 41 **Treatment Performance Results**

Parameter	Standard	Results
Fecal Coliform	Less than 200 MPN/Gram	Less than 10 MPN/Gram
Moisture Content	Less than 75%	Less than 71.3%
Solid End Product	None Objectionable	Complied
Leakage from Unit	None Observed	Complied
Odor at Unit	None Observed	Complied

(520) 628-6733

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

Applicability: This listing is for only Phoenix Composting Toilet Models R-199, R-200, R-201, PF-199, PF-200 & PF-201 and is listed as composting toilet treatment technology specified in A.A.C. R18-9-E303.

Limitations:

A. The product is subject to A.A.C. R18-9-A312(F)(2) through (4).

B. The product shall conform to the following:

	Model #	Model #	Model #
Temperature	R-199 & PF-199	R-200 & PF-200	R-201 & PF-201
	Uses/day – Uses /Year ^C	Uses/day – Uses /Year ^C	Uses/day – Uses /Year ^C
55° F	8-2,900	15-5,500	25-9,000
65° F	15 - 5,500	30-11,000	50-18,000
75° F	30-11,000	60 – 22,000	100 – 36,000

- C. One person = 5 uses per day
- **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 the treatment of wastewater that meets the definition of typical sewage in R18-9-101(42).
- **F.** ADEQ does not approve design or operation manuals for proprietary products. However, "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) unless a conflict arises as specified in R18-9-A312(F)(4).

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

Alternative:	None	
Exception:		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.

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

Application for Treatment Product Listing:	7/31/19	
3 rd Party Test data:	CSA & NSF- 41, Published - 8/26/94; Performance	
	Assessment of Composting Toilet Facilities by Highway	
	Environment Branch, B.C. Ministry of Transportation &	
	Highways, Published - 3/96	
Installation Instructions:	Installation Instructions for Phoenix Composting Toilet - 2019	
Manufacturer's Warranty:	Phoenix Composting Toilet Installation Certification and Limited Warranty – No Date	
Manufacturer's Specifications:	Manufacturer Specifications for Product – 01/19	
Manufacturer's Design	Using the Phoenix Composting Toilet System in Public	
Calculations & Drawings: Facilities – An Information & Application Guide - 2019		
		
Operation & Maintenance Manual:	Phoenix Composting Toilet System Instructions for Operation	
Operation & Maintenance Manual.	and Maintenance - 2018	

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 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: 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:	!/28/20	1
Title:	Manager, Choundwater & Water Russe		

ADEQ LTF # - 77819 Reviewer: Luke Peterson