



SuperAerator XL

Engineering Specification

GET A QUOTE

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SPEAK TO AN ENGINEER

262.716.0105

PRODUCT PAGE

<https://www.panamenv.com/vehicle-wash-water-treatment/superaerator-enbio/>

Two systems to provide bacterial dose metering and aeration. Now combined in a single convenient system.

EnBio Chemical Dose system:	Automatically doses EnBio bacteria into your waste stream.
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SuperAerator:	Aerates your waste stream
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SuperAerator XL:	Aerates your waste stream & doses EnBio
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For odor and contaminant reduction with bio-treatment aeration is required in order to maintain sufficient oxygen content for the EnBio™ bacteria treatment system.

The SuperAerator™ and SuperAerator™ XL systems when used in combination with the EnBio™ system will reduce pit management problems such as odor and sludge reduction.

The system consists of:

- Air pump
- Air diffuser(s)
- Air tubing
- The XL system combines the EnBio™ system with the SuperAerator™ in one convenient enclosure

Compare With Traditional

Odor Reduction Measures

The use of the SuperAerator™ in combination with the EnBio™ system offers a more simplistic natural treatment solution when compared to chemical and gas oxidants such as chlorine, hydrogen peroxide and ozone.

These oxidants can corrode metallic system components and other items that the water comes into contact with. Ozone requires constant addition to be effective as the ozone molecule continuously degrades until it reverts to oxygen, which takes about 1 hour. When AOX (Advanced Oxidation) is used where hydrogen peroxide is combined with ozone the cost to keep the oxidation process is even greater.

The EnBio™ microbes do not cause corrosion and the self-increasing bacteria colony builds and maintains itself reducing your need to continuously add EnBio™ media.



- Retrofit existing systems
- Simple installation
- Fit most brands of sumps and treatment systems

Uses

- Aeration for vehicle wash water
- Superaerator with EnBio biomedica
- Aeration and bacteria injection system
- Odor control aeration system
- Sludge reduction aeration
- Wash pit aeration system
- Sump basin aeration
- Biological treatment aeration
- EnBio metering pump and aeration
- Vehicle wash water odor control
- Reduce pit sludge and odor
- Aeration for car wash recycling
- Heavy equipment wash water aeration
- Odor elimination in wash pits
- Odor elimination in oil water separators
- Remove oils from pits, pipes, sewers and septic tanks & fields

EnBio and SuperAerator Systems Engineering Specification

SECTION 1.0 EQUIPMENT DESIGN & CONSTRUCTION

SuperAerator XL



The SuperAerator XL provides wastewater aeration and EnBio dosing.

1.03 SuperAerator XL Aeration/Dosing System

The SuperAerator XL system is provided per the following components:

System enclosure:	NEMA4X, steel, ANSI 61 gray enamel coat
Aerator pump(s):	2.5, 3 or 8 CFM discharge volume

- EnBio pump

Diffusers: Urethane/PVC membrane (1 or more)

- On/off hand switch on enclosure door with light

System dimensions: 20"W X 20"H X 8"D

System weight: 20-30 Lbs.

EnBio pump: Peristaltic (tube) design with power supply adaptor

- Local control on EnBio pump face
- Polyethylene tubing, 1/4" provided to draw EnBio and to discharge into waste stream
- Internal power terminals and power receptacles

EnBio dosing rate: 3.5 oz/min (approx.)



EnBio dosing pressure: 20 psi

EnBio suction vacuum: 20+ in Hg

Max. # EnBio dose events: 24

EnBio dose amt per event: 0.5 - 30 oz

EnBio pump materials: Polypropylene & ABS

Tubing construction: Polyethylene

EnBio Control

The EnBio pump is provided with integrated controls, which are programmable through the buttons on the pump face. Programming can set your dosing for daily, weekends, daily/weekends or special dosing settings.

System cost includes one, five gallon pail of EnBio.

Model discharge flow rate

SA-2.5-XL 2.5 CFM @ 4 psi (9.24' head)

SA-3.0-XL 3.0 CFM @ 5.25 psi (12.13' head)

SA-8.0-XL 8.0 CFM @ 7 psi (16.17' head)

Air Pump Design

The aeration pump design provides these features:

- Electromagnetic, linear diaphragm design
- ZL 102 aluminum alloy housing
- Heat dissipating design



- Diaphragm style pump head
- Oil free design

Diffuser

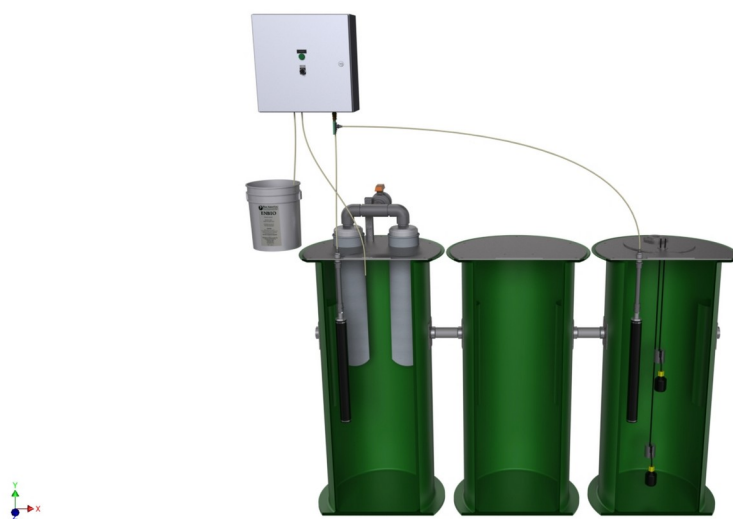
The diffuser design features:

- Cylindrical, 25"L
- PVC construction w/NPT connection

Diffuser

- Urethane or PVC membrane
- Fine bubble creation
- Mount bracket included
- 20', polyethylene 1/4" tubing with fittings

Typical Triple Basin Installation



SECTION 2.0 MISCELLANEOUS

2.01 Manufacturer

The manufacturer of preference shall be: Pan America Environmental, Inc.

2.02 Warranty

Pan America Environmental warrants its products to be free of defect in materials and workmanship for a period of one year from the date of shipment.

2.03 Installation Operation Manuals (IOMs)

Two (2) IOMs are provided with each system.

2.04 Field Services

Site visit/field services can be provided as desired. Cost is \$1450.00 per Diem + expenses. Please contact PAE for current site visit.

SECTION 3.0 FREIGHT AND SHIPPING PREPARATION

3.01 Freight Cost

The quoted freight cost is an actual or estimated cost. This cost is subject to change throughout the life of the quote and any resultant order. Freight is not included unless noted at top of page 2 in Terms & Delivery section.

3.02 Palletizing

The system is palletized or boxed for shipping.

Specifying a SuperAerator XL for your project?

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