



# ecopure<sup>®</sup> mini

**Two technologies. One tiny package. Zero odor.**



[bioairsolutions.com](http://bioairsolutions.com)

# Meet the EcoPure Mini

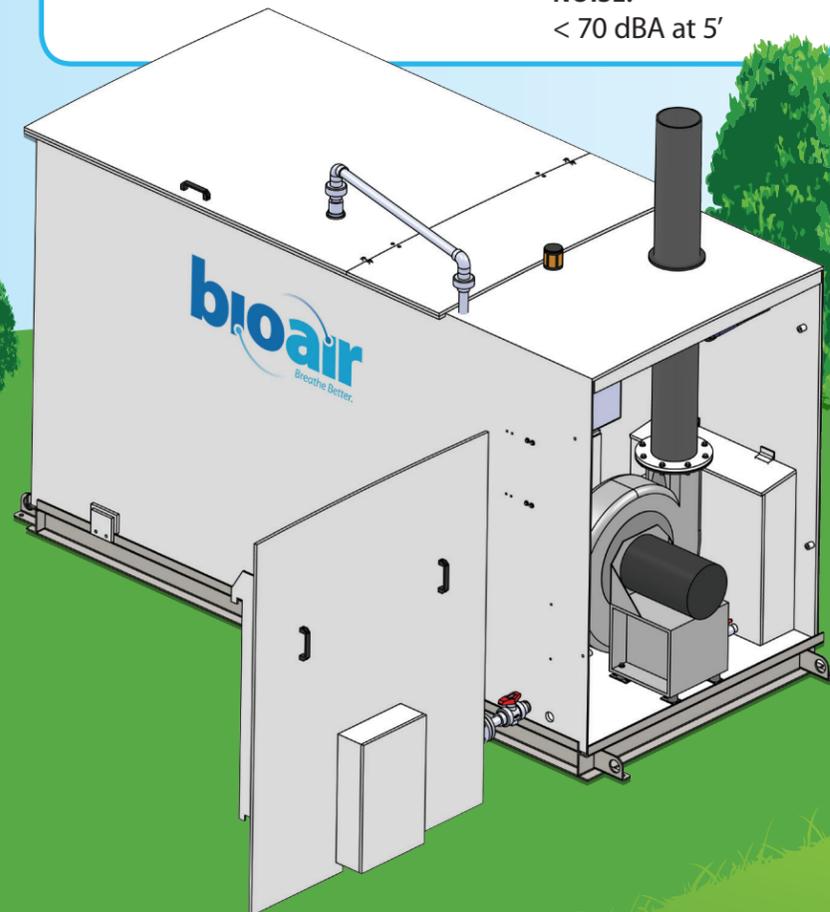
A compact, dual-technology odor control system utilizing BioAir's breakthrough EcoBase™ structured, synthetic biotricking filter media followed by an EcoSorb polishing stage. The EcoPure® Mini eliminates organic odors and H<sub>2</sub>S using absolutely no hazardous chemicals while delivering reliable, consistent, long-term performance with very low operating costs and a very small footprint. The EcoPure Mini is the perfect solution for collection system odor and corrosion control. Units come pre-installed on a stainless steel skid, making installation possible in less than a day with complete odor removal achieved immediately.

## EcoPure Mini Features

- Total odor control (> 99.5% H<sub>2</sub>S and > 95% odor) from day one
- Skid mounted; pre-piped and pre-wired for plug-and-play installation
- Compact design stands only five feet high with a minimal footprint
- Virtually silent operation
- SCADA ready
- Extremely low O&M costs
- Concealed, tamper-proof control area
- Short-term rental options
- Immediately available from stock
- Environmentally responsible (odor free, quiet and small enough to go unnoticed)

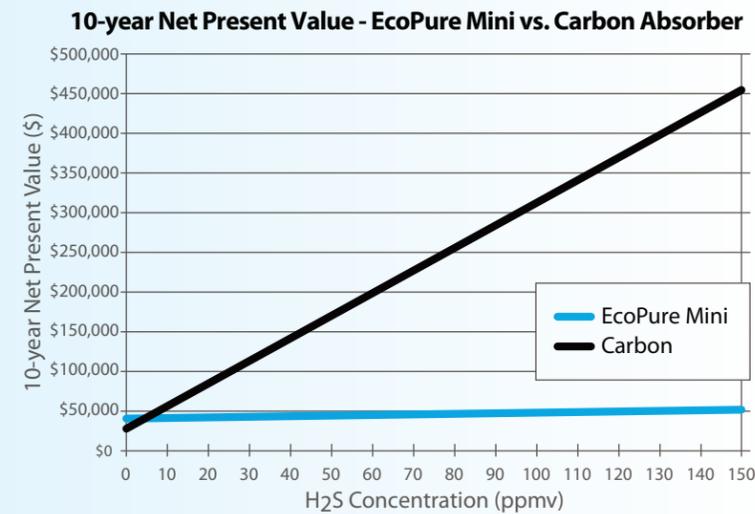
## EPM Specifications:

<b>DIMENSIONS:</b> 4' W x 9' L x 5' H	<b>STANDARD COLOR:</b> White
<b>OPERATING WEIGHT:</b> 2,260 lbs	<b>AIRFLOW UP TO:</b> 400 cfm
<b>MATERIALS:</b> High Density Polyethylene (HDPE) Stainless Steel Skid	<b>ELECTRICAL:</b> 230/1/60, 20 A 480/3/60, 10 A
<b>SHIPPING WEIGHT:</b> 1,400 lbs	<b>H<sub>2</sub>S UP TO:</b> 600 ppmv
	<b>NOISE:</b> < 70 dBA at 5'



## EcoPure Mini Economics

Compared to activated carbon, the EcoPure Mini provides for a very cost effective odor control solution especially when evaluated on a Net Present Value (NPV) basis. One of the key benefits of the EcoPure Mini is its low operating cost due to the fact that our microorganisms do not "charge anything to do their work". The EcoPure Mini's operating cost stays virtually constant whereas the operating cost of a carbon system increases proportionally with the H<sub>2</sub>S/odor concentration. The chart below shows the NPV comparison between the EcoPure Mini and an activated carbon system over a 10 year period.



Main Assumptions:  
 • Capital cost for EPM is 1.4 times that of carbon system  
 • Amortization interest = 6%  
 • Contact BioAir for detailed assumptions

## CASE STUDY

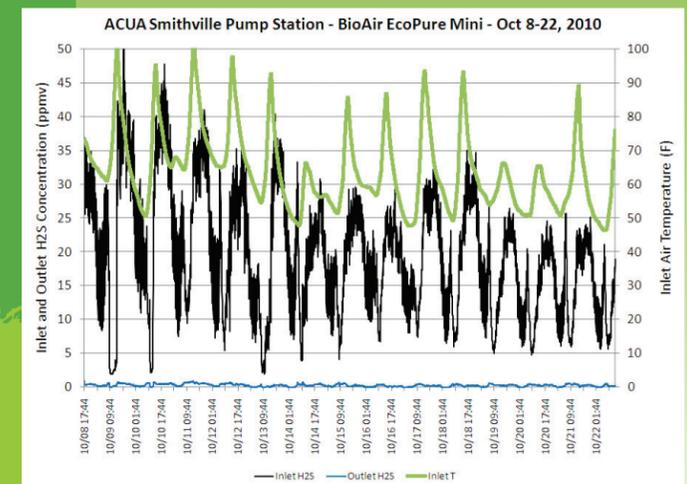
### Smithville Pump Station Atlantic City, NJ

Residents living beside the historic Smithville and Village Green shopping and dining area near Atlantic City, NJ complained frequently of odors from the nearby Smithville Pump Station of the Atlantic County Utility Authority (ACUA).

The ACUA was not satisfied with the performance of their existing liquid-phase odor-mitigation system, which injected sodium hypochlorite into the wastewater prior to pumping it to the main treatment plant. This approach involved the use of large quantities of costly, hazardous and environmentally-harmful chemicals, which conflicted with the ACUA's policy of being environmentally-conscious.

In 2009, the ACUA met with BioAir Solutions to discuss their odor issues, and soon purchased and installed an EcoPure Mini system at their Smithville Pump Station, a solution they found to be both cost-effective and environmentally-friendly.

The EcoPure Mini installed at the Smithville Pump Station treats 300 cfm of air containing 30 ppmv H<sub>2</sub>S on average. Since its installation, the system has consistently removed more than 99% of the H<sub>2</sub>S in the biological section and more than 99.9% H<sub>2</sub>S across the entire system. Thanks to the EcoPure Mini, the lift station's next-door neighbors have no more odor complaints, and the ACUA is credited with expanding its portfolio of green technologies.



First stage (biological only) H<sub>2</sub>S removal performance



BioAir Solutions, LLC  
110 Kresson-Gibbsboro Road, Suite 303  
Voorhees, NJ 08043

**P 856.258.6969**  
**F 856.258.6975**

[info@bioairsolutions.com](mailto:info@bioairsolutions.com)  
[bioairsolutions.com](http://bioairsolutions.com)