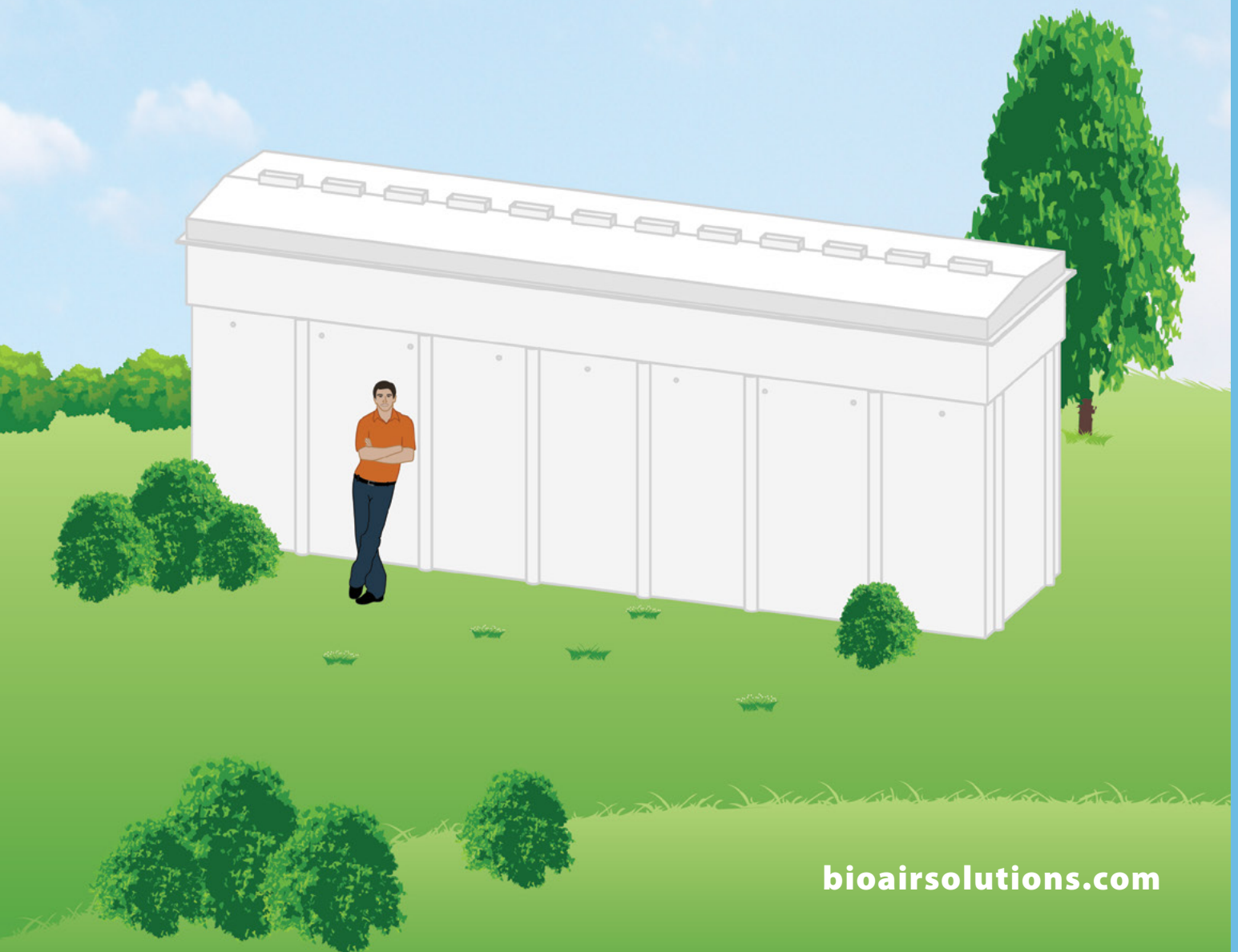




# ecopure<sup>®</sup>

**Two technologies. One convenient package.**



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

# Introducing EcoPure®

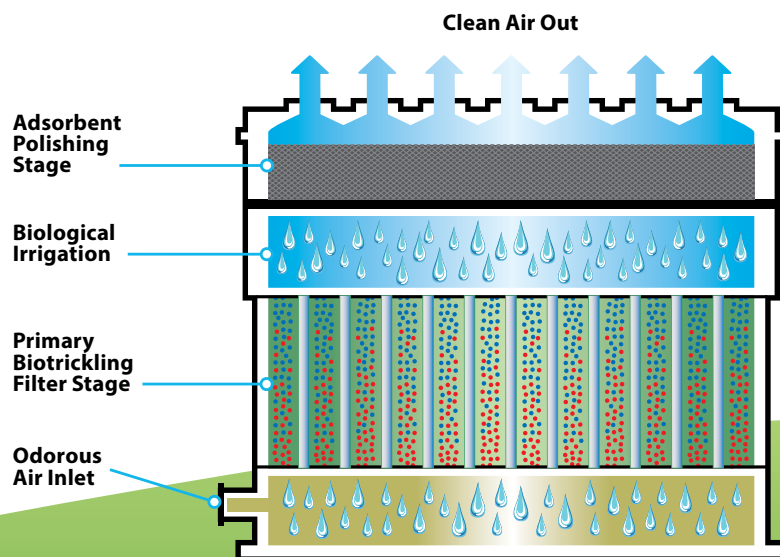
EcoPure combines two of the most effective odor treatment technologies into a single vessel, allowing BioAir to solve your most critical odor issues in a smaller, more efficient system than ever before: a perfect double-barreled solution for facilities with extremely restrictive emissions limitations or for those extra-sensitive areas near residences or property lines. EcoPure incorporates the efficiency of BioAir's proven, industry-leading biotrickling filter technology and the additional power of a secondary adsorbent polishing stage for the lowest possible emissions and an end to neighbor complaints. EcoPure units are low-cost, low-profile, and low-maintenance. Plus EcoPure is sustainable and environmentally-friendly, using no harmful, expensive chemicals, so you and your neighbors can enjoy odorless surroundings with zero impact on the environment and zero damage to the planet.

## EcoPure Features

- Two stage odor treatment in a single vessel
- Optimal odor control (>99.99% H<sub>2</sub>S and >99% odor removal)
- From 200 cfm to 50,000+ cfm, EcoPure systems are scalable to fit your specific needs
- Removal of organic and inorganic odors
- Extremely long adsorbent media life
- Small-footprint, low-profile systems can fit into tight spaces and keep out of sight of the neighbors
- No hazardous or expensive chemicals
- Extremely low operation and maintenance costs over the life of the system
- Simple controls with minimal instrumentation
- Peace of mind, and zero complaints

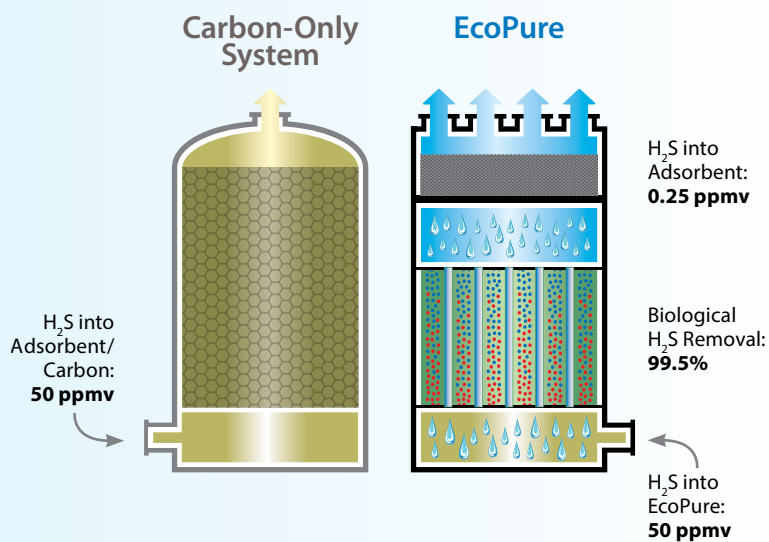
## EcoPure Anatomy

EcoPure harnesses the power of BioAir's industry-leading biotrickling filter technology utilizing structured, synthetic EcoBase® media, and increases its effectiveness even further through the use of an adsorbent polishing stage utilizing BioAir's Optia™ adsorbent media. The efficiency of EcoBase ensures that your adsorbent polishing media has a life up to twenty times the length of your traditional carbon-based filter.



## Extending Carbon Life

Adsorbent materials like carbon are expensive, and must be replaced when consumed. The more odor and  $H_2S$  that reaches the carbon in your system, the more frequently the adsorbent material must be removed, disposed of, and re-purchased. EcoPure's dual-technology configuration allows the biological section of the reactor to do the heavy lifting, removing the vast majority of odors before the air ever reaches the final polishing stage. This means extremely little  $H_2S$  reaches the adsorbent material, leading to greatly extended life for your adsorbent and a large reduction in your operating cost.



## CASE STUDY

### Atlantic Beach Wastewater Treatment Facility

Atlantic Beach, Florida, USA

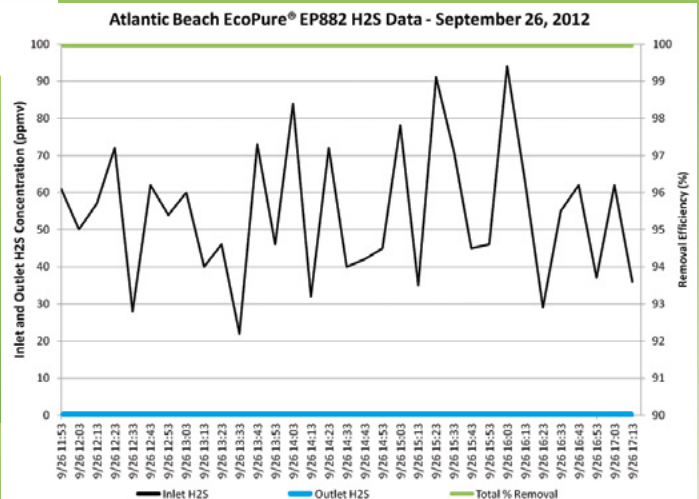
- Equipment: EcoPure® EP882
- Odor Source: WWTP Headworks
- Airflow: 3,000 cfm
- Average Inlet  $H_2S$ : 54.08 ppmv
- Actual Outlet  $H_2S$ : 0.00 ppmv
- Actual  $H_2S$  Removal Efficiency: 100%

An EcoPure EP882 was installed at the Atlantic Beach wastewater treatment facility in 2012. The facility is located beside a residential area and a busy road, and odor issues from the plant had become a nuisance for the local residents.

BioAir's experience dealing with odor treatment in sensitive areas made the selection of BioAir's EcoPure technology a simple choice. EcoPure's additional adsorbent polishing step is ideal for sensitive locations like this one in Atlantic Beach, where the city is removing odors in very close proximity to the homes of local residents; EcoPure provides the assurance of zero odors at all times.

Upon startup, the system immediately began eliminating > 99% of  $H_2S$  in the airstream, exceeding the requirements specified by the City.

This transformation has been impressive; both local neighbors and the city's facility managers are happy with their new, odorless environment.







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