

## **The Engineered Biofiltration System**

*An Aerobic All-Natural Biofiltration Odor Control Unit*

### ***“Environmentally Friendly”***

*This is the challenge faced by environmental professionals today. You appreciate the advantages of using biological processes to treat the odorous compounds generated by your company or municipality. But how can you cost-effectively manage the by-products from your processes to consistently maintain community acceptance and eliminate offensive odors? Finally, you have a no-compromise solution you can afford.*

BiofiltAer allows naturally-occurring microorganisms grown in an environmentally controlled filter media bed to break down and eliminate malodorous compounds in an environmentally friendly process, with little if any affects from ambient temperature variations.

### **BiofiltAer Advantages**

- Lower operating costs than all competing methods i.e., chemical scrubbers, activated carbon, thermal oxidation, and many other proprietary media systems.
- Truly green process – no harmful chemicals, low energy requirements and final products are inert.
- Low capital costs.
- Safe and reliable operation.
- Short and simple start-up.
- Long media life.



### **BiofiltAer<sup>™</sup> Effectively Treats Odor Compounds**

- Mercaptans
- Ammonia
- Amines
- Amides
- Hydrogen sulfide
- Aromatic Hydrocarbons
- Alcohols
- Acids
- Phenols
- Ketones
- Other Compounds

# BiofiltAer™

(continued)



Marshall, Minnesota

## BiofiltAer Applications

- ATAD Operations
- Wastewater Treatment Facilities
- Septage Receiving Stations
- Corn Milling Operations
- Composting Facilities
- Food Processing Plants
- Fermentation Operations

## Natural Biofiltration

Unlike synthetic media based systems, the TPS natural media based system requires little or no additional nutrients (N, P, K), micro nutrients (Mn, S, Se), or buffering chemicals which add to the annual operational cost and complexity. Additionally, periodic loss of the emission stream does not result in a significant loss of biomass because of its backup food source supply contained within the media. Once the airstream is reintroduced, provided it is properly humidified, there is little if any additional re-acclimation time required.



*Designs include prefabricated modular units that can be shipped to the site for quick and easy startup. Additionally, field constructed units are provided on larger projects and allow for easy access. The BiofiltAer Process is most economical in mid to large-scale operations.*



*The Bowling Green, Ohio BiofiltAer biologically removes odors from several potentially odorous sources, including ATAD operations, thermal drying, dewatering building, and the solids storage building.*



### Thermal Process Systems

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