

Biofilter Technology

Proven performance and low lifecycle costs for VOC & odor control



Perry Fiberglass Products, Inc.

Experts in designing and manufacturing odor control and air pollution control equipment

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Sustainability Redefined

Advanced Technology for Managing Industrial & Municipal Emissions

For the control of VOCs, HAPs and odor-causing compounds, Perry Fiberglass offers a state-of-the-art portfolio of biological treatment systems—including biofilters, biotrickling filters and combinations of the two technologies—in both standardized and custom designs.

Perry Fiberglass can provide solutions for a broad range of contaminants and flow rates—from 120 cfm to over 100,000 cfm. Perry Fiberglass biofilters are the result of more than three decades of experience in managing industrial and municipal emissions, featuring advanced engineering concepts that can be tailored to provide a low lifecycle cost solution in your facility.



SEVEN things YOU WANT TO KNOW about Perry Fiberglass Biofilters:

1. Cost effective:

- Very low operating costs.

2. Reliable:

- Proven, technology in over 120 installations.

3. Simple operation:

- Minimal maintenance

4. High removal efficiencies:

- Useful for broad range of contaminants.
- Can be effectively combined with other technologies to reduce costs and improve performance.

5. Broad range of configurations:

- Different influent air & loading rates
- Modular
- Built-in-place
- Biotrickling filter (bio tower)
- Biotrickling/biofilter combination

6. Long—life filter media:

- Guarantees up to 10 years depending on the application
- Media matched to project

7. Sustainable technology:

- Reduced chemical usage/storage
- Contaminant destruction



Solutions Tailored to Your Requirements and Your Facility

Modular Biofilters (MB Series)

For lower air flow rates and sites requiring a smaller system footprint, Perry Fiberglass Modular Biofilters deliver reliable, cost effective performance. These engineered pre-fabricated fiberglass systems come in a range of standard configurations and can be adapted to flow and loading requirements. They can be shipped with all media pre-installed and easily installed at the site. Our modular biofilters (MB series) can handle a wide range of flow. The MB series modular biofilters feature internal humidification and irrigation systems.

Biotrickling Filters (BT Series)

Perry Fiberglass Biotrickling Filters are vertically-oriented biofilters filled with an inorganic media featuring 100% water recirculation. The filters' unique design can address high concentration of H₂S odors in areas where space is at a premium—offering a shorter retention time and higher throughput than a conventional biofilter. They can also treat high concentrations of VOCs and be chemically augmented when needed. The recirculation water maintained in the tower allows for optimal control of pH, nutrient levels and biofilm thickness. In some applications, an intermittent, single-pass irrigation system can be supplied, eliminating the need for a recirculation pump.

Integrated Biotrickling/biofilter systems (IBB Series)

The result of 20 years of research, design and operating experience, Perry Fiberglass's integrated biotrickling/biofilter systems are some of the most technically advanced solutions for low—to moderate—flow applications available. These systems combine the high performance of a biotrickling filter in removing H₂S, with the VOC and reduced sulfur compound efficiencies of a biofilter in a single, pre-fabricated fiberglass system that offers ease of installation and a small system footprint. One of the design advantages of the integrated biotrickling/biofilter system is that it can be configured to offer multiple zones of treatment for efficient and cost—effective management of complex air streams.

Built—in—place Biofilters (BIP Series)

Perry Fiberglass built-in-place biofilters are custom designed solutions for mid-to high-air flow VOC and odor control application. Installations are based on standardized multi-bay designs and system components to lower installed costs for air flows ranging from 2,000 to 72,000 cfm. They can be configured with both biofilter and biotrickling designs from multi-zonal treatment.



The Perry Fiberglass Sustainable Emissions Control

For a broad range of industrial emissions applications, the Perry Fiberglass Sustainable Emissions Control offering features the use of both biological and enhanced adsorption treatment technologies to control contaminants covered under the clean air act and state and local air quality regulatory programs. Used alone or together, the two-technology approach allows Perry Fiberglass to treat organic and inorganic, polar and non-polar emission constituents at varying concentrations and air flow rates.

Our biological and adsorbent technologies for emissions control are sustainable because they are safe and high performing. They offer the ability to reduce chemical and energy consumption, the opportunity for recycle/re-use and to lower carbon footprint compared with other treatment technologies. They are sustainable in another sense due to their low operating costs—with the ability to deliver significant savings over the lifecycle of a project.



Biofilter Applications

- Asphalt manufacture
- Chemical processing
- Coatings manufacture
- Composting
- Food processing
- Fragrance manufacture
- Landfill gas/ leachate extraction
- Petroleum & refining
- Pulp & paper manufacture
- Rendering
- Wastewater collection & pumping
- Wastewater treatment
- Wood products

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