

TOTAL ODOR REMOVAL

The SAM M1 is a combination of biotrickling and biofilter technologies. When operated in series, these provide a robust and cost effective approach to the treatment of complex odors associated with various municipal waste water treatment processes. The first stage of the SAM M1 series consists of a biotrickling filter that is customizable between 2 - 30s EBRT and used as a roughing scrubber to remove elevated hydrogen sulfide concentrations, allowing the second stage biofilter to concentrate on the more difficult organic sulfides and VOCs.



SAM M1 Applications:

All applications where total odor removal is required.

- Total odor control
- Elevated inlet H₂S air stream
- Headworks
- Bar screens
- Biosolids management
- Grit removal
- Pumping stations
- Industrial applications for VOC removal

FEATURE	BENEFIT
Handles Difficult Applications	The SAM M1 combines biotrickling & biofiltration to handle the most difficult air stream applications. This provides long term consistent total odor removal.
Variety of Vessel Types	The SAM M1 can be constructed using a variety of material types to meet budgets, delivery requirements and plant aesthetics.
Modular Design	With the use of certain vessel materials and depending on the flow requirements, the SAM M1 with its small footprint, can be shipped to site for quick easy installation as a complete system ready for simple installation by the contractor.
Media 1st Stage	Ultra efficient synthetic media capable of removing greater than 99% of H ₂ S.
 BIOSORBENS 2nd Stage	This engineered mineral based media is homogenous and uniform in shape, providing consistent and predictable performance with less maintenance when compared to other media.
Water Recirculation System	Reduces wastewater generation and water consumption. Recirculation of the wastewater decreases acclimation time and allows the unit to be up and running within a short period of time. Plant effluent is all that is typically required but when not available, potable water can be substituted.
Automated Controls	Operator friendly and compatible with most SCADA systems.
Dual Stage	Handles variable peak variation, shock loads and process upsets with ease.

BIOSERVE™

BIOREM® offers a comprehensive service program. Your new BIOREM® unit comes packaged with one of our innovative BIOSERVE™ programs, which includes two site visits from our fully trained service engineers to review the system operation and provide any required performance optimization recommendations. Ongoing support and monitoring continues throughout the life of your system. Following the first year of the complimentary BIOSERVE™ package, many options are available which allow you to customize a BIOSERVE™ package that will suit your needs.



BIOREM® is an environmental biotechnology company which manufactures a comprehensive line of high efficiency, biologically-based, air pollution control systems that are used to eliminate odors, H₂S, NH₃, TRS, VOCs and other hazardous air pollutants. With more than 500 installed systems worldwide, and over 15 years of experience, BIOREM® not only offers state-of-the-art technology based products but provides engineered solutions for total odor and VOC control.

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