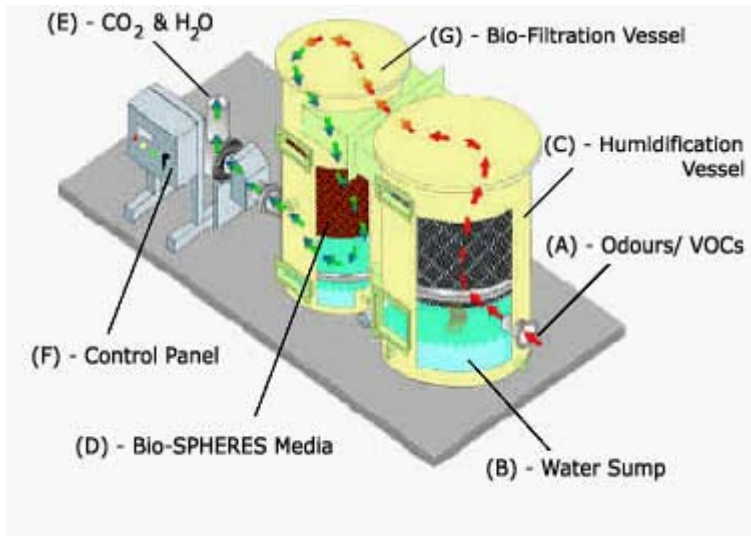
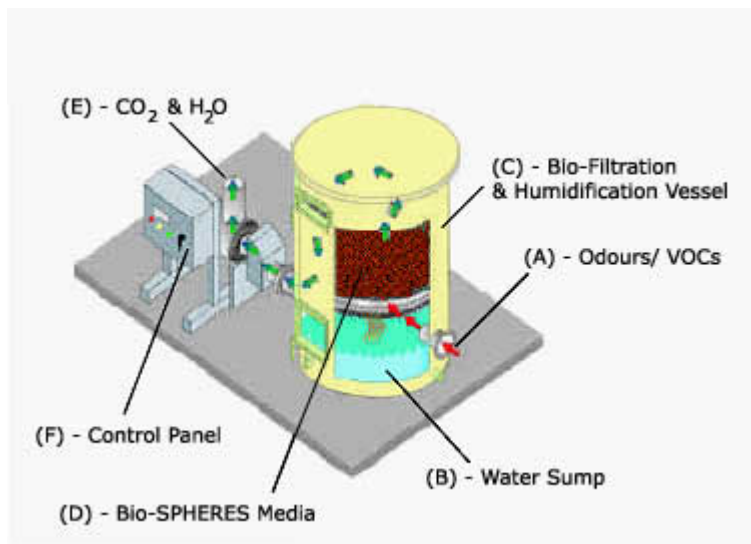


The ENVIRO2 Bio-Filters & Tricklers Lines

These lines feature pre-engineered and modular in design, using proven bio-technology to treat a variety of air pollution applications:



Each modular system is automatically controlled for the capture and breakdown of VOCs and odours into carbon dioxide and water vapour. This revolutionary system design and patented BIO•SPHERES media can accommodate all airflows with no harmful byproducts such as NO_x, SO_x, or excessive CO₂ and a much smaller footprint than traditional biofilters.



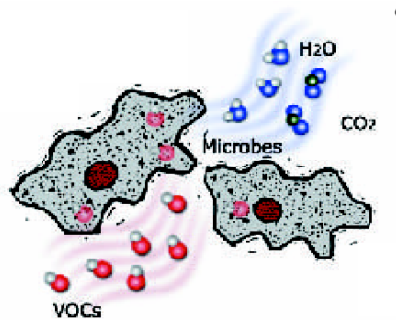
Whether it's a multi-vessel or single stack Bio system, Bisan's **Enviro₂** line operates under induced draft, pulling the contaminated air stream into the humidification vessel (A) and over or through a water sump (B). The sump drops out water-soluble compounds, assists with humidification of the air stream, and harbors bacteria for additional treatment. The contaminants captured in the water-phase are circulated over an inorganic media (C) for additional humidification and treatment. The second stage contains the patented Bio•SPHERES media (D) for digestion and final breakdown of contaminants. The contaminants are converted to carbon dioxide and water vapor and released into the atmosphere (E). The control panel (F) monitors and adjusts temperature, humidity, fan and pump parameters, providing a stable, reliable, and easy to maintain bio-filtration or trickling system.

Note: In our BioS systems this combination is joint under one tank.

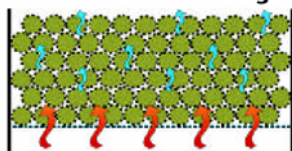
Features/Benefits	Applications/Industries
<ul style="list-style-type: none"> ▪ Small Footprint ▪ Easy Operation & maintain ▪ Easy Installation ▪ Modular, Flexible & Expandable Design ▪ Stable Microbial Community ▪ Lower capital cost ▪ Low energy costs ▪ Capable of handling surge loadings ▪ Small footprint ▪ Eliminates cross-media pollution ▪ No hazardous or harmful byproducts ▪ Environmentally beneficial 	<ul style="list-style-type: none"> ▪ Municipal Odour Control ▪ Paint Applicators ▪ Paint Manufacturing ▪ Wood Products ▪ Pulp & Paper ▪ Industrial Process & Tank Vents

BIO-MEDIA

The patented Bio•SPHERES are a living of community of fungi and microorganisms (Bio•MATRIX) mixed in an inorganic structure that utilize VOCs and odour compounds as their primary food source. Contaminants from the air stream are captured and digested by the microbial

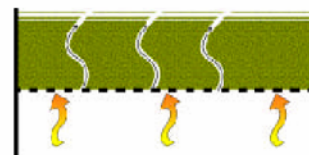


BIO-OXIDIZER Advantages



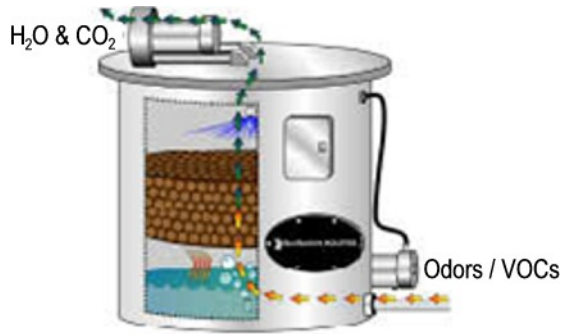
- Small Footprint
- Easy Operation
- Easy Installation
- Automated Controls
- Modular, Flexible & Expandable Design
- Stable Microbial Community

Conventional Biofilters



VS

- Large single layer units, relying on large
- Volume of media for treatment
- Subject to compaction and channeling
- Difficult to control temperature
- Limited surge loading capability
- Difficult to measure removal efficiency



Degradation of odorous compounds

Bio•SUMP

The **Bio•SUMP** is a lightweight, modular biofiltration system designed to meet the demands for odour control at lift stations, sewer vents and other small, contained processes that emit nuisance odours.

Product Description

The exterior is fiberglass reinforced plastic (FRP) or stainless steel with a sealed lid that houses an internal framework to support Bio-media for the adsorption and digestion of odorous compounds emanating from sources such as: wastewater collection sumps, lift stations, sewer gas vents, animal or food processing facilities.

The standard unit is equipped with an automated humidification/watering system and an induced draft fan. For applications in colder environments, optional heating systems and insulation are also available.

The **Bio•SUMP** is a self-contained biofilter requiring only a 20 amp, 115/220VAC power receptacle, a domestic water supply, and a drain to a sanitary sewer for any minor blow down discharges. The system is capable of handling H₂S and other odour compounds in airflows less than 100cfm. Other flow ranges and/or system applications available upon request.

For Additional Information Bisan Trading & Industrial Services, Inc.

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Application

- Wastewater Treatment Facilities
- Lift Stations
- Sewer Gas Vents
- Animal Processing
- Food Processing
- Odours from non-regulated VOC sources

Benefits

- Complete breakdown of odour compounds
- Virtually maintenance free
- Very low energy and operating costs
- Compact, space-saving footprint
- Sustainable, reliable and proven technology
- Purchase, lease and rental plans available

This system is capable of handling H₂S and other odour compounds in airflows less than 100cfm.



Wastewater Treatment Plant, Odour Control

Odour Control with Bio-Vent Systems

Odour identification and control is often subjective and difficult to quantify. Bisan provides a solution that is sustainable, reliable and cost effective.

Bio•REACTORS™

Bio•Reaction's **Bio•REACTORSTM** meet and exceed odour reduction requirements commonly associated with wastewater treatment processes, animal and food processing facilities and non-regulated VOC applications.

BRI has researched and developed a patented bio-oxidation solution by combining biotrickling humidification and treatment methods with a proprietary compost based Bio•MATRIX™ for a complete odour solution.

Whether it is the single stack Bio•VENT-S low flow, the multi vessel Bio•VENT-LS for high flow or the Bio•SUMP, these systems are based on proven biotechnology with an engineered design to solve most odour control needs.

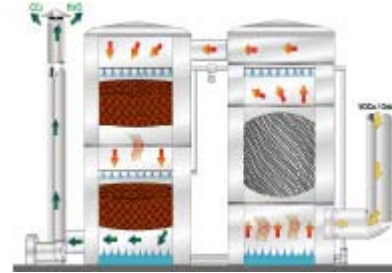
Industry Applications

- Wastewater Treatment Facilities
- Animal Processing
- Food Processing
- Chemical
- Pharmaceutical
- Nuisance Odours

Benefit

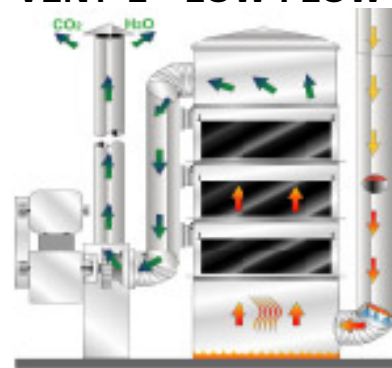
- No costly chemicals
- Long media life
- Complete breakdown of compounds
- Virtually maintenance free
- Proven bio-technology
- Compact, space saving footprint

Bio•VENT-H - HIGH FLOW



Engineered to accommodate a variety of airflows and concentrations. A sustainable, non-chemical solution for odours or non-regulated VOC applications.

Bio•VENT-L - LOW FLOW



Small, compact, easy to install and maintain for low airflow applications greater than 100cfm and less than 2,000cfm.

This system can also be used in parallel for areas with limited space.

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