

Biofilter BP series

EQUIPMENT TYPE

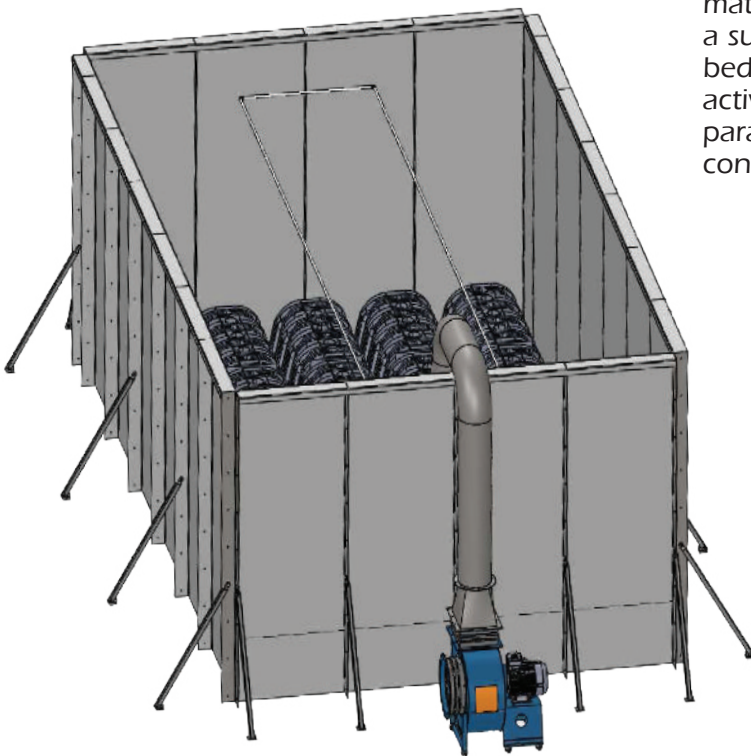
Biological air deodorization.

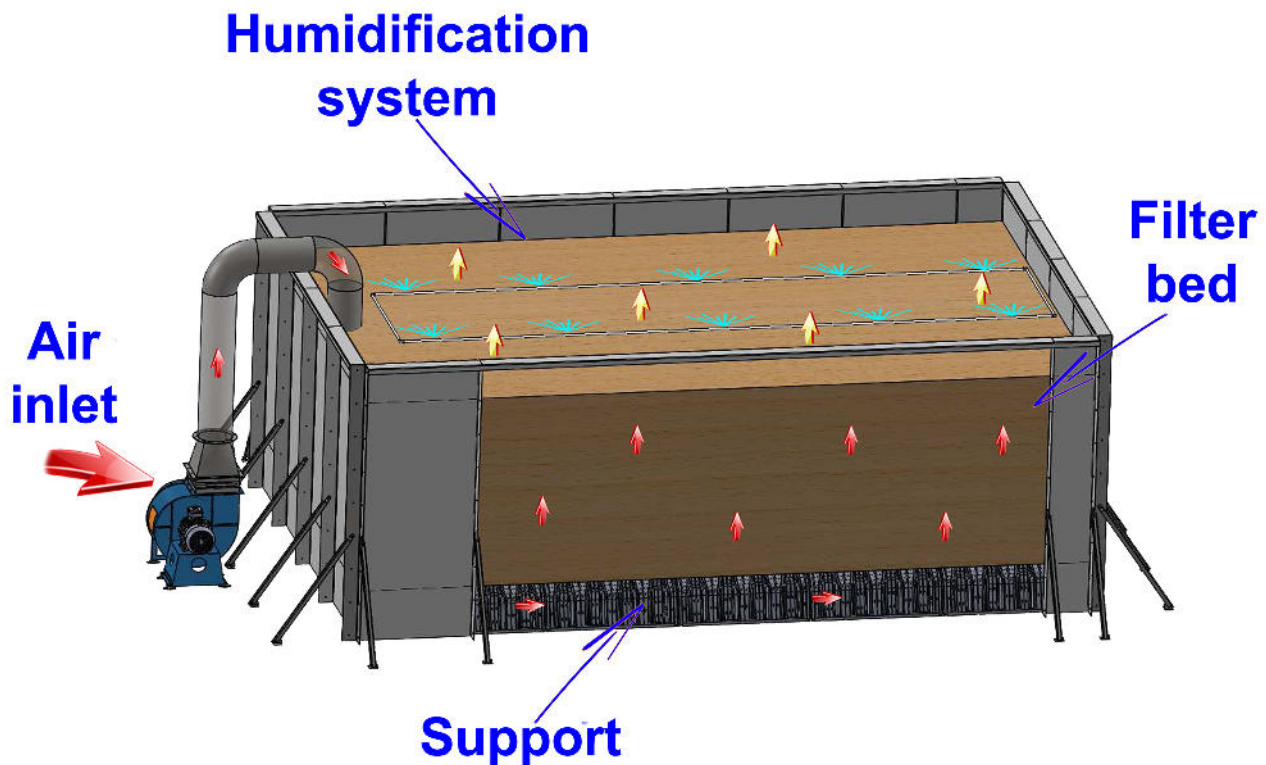
APPLICATION

Our biofilter removes, with a biological principle, several Volatile Organic Compounds (VOCs) from the air, with an efficiency of above 99%, the biofilter media is inoculated with a suitable strains of bacteria.

OPERATING PRINCIPLE

Biofiltration is a biodegradation of chemical compounds, in gas phase, into carbon dioxide, water and inorganic salts. Biofiltration is a biological technology for the removal of contaminated components from waste gases. In a typical biofilter configuration, the contaminated gas is passed through a preconditioner for humidification (if necessary). The conditioned gas stream is then passed through the bottom of a filter bed of soil, peat, composted organic material (such as wood or lawn waste). The media provides a surface for microorganism's attachment and growth. The bed and air stream are kept moist to encourage microbial activity. Humidification is generally the most influential parameter of a biofilter, especially at lower VOCs inlet concentration..





Gas flow m ³ /h	from : 100	to : 100.000
Dimensions	As required by the customer	
Filter media	Wood chips, coconut fiber, compost, or other specific material according of the pollutant..	
Washing system	With nozzles.	

CONSTRUCTION

A reinforced concrete slab is built for the containment walls that can be constructed from: reinforced concrete, sandwich panels, polypropylene, stainless steel AISI-304 or AISI-316 or aluminum. The containment walls are waterproofed, a modular support system is quickly erectable in virtually any size and shape using PEHD supports that are interconnected at the site. The bed of biofilter material is positioned over the modular support system. The Humidification of the bed is controlled by an Irrigation System.

OPTIONAL

- Containment walls in PP, stainless steel AISI-304 or 316 or aluminum;
- Electrical panel;
- Temperature, pressure loss and humidity probes;
- Airfan