

Biofilter BV series

EQUIPMENT TYPE

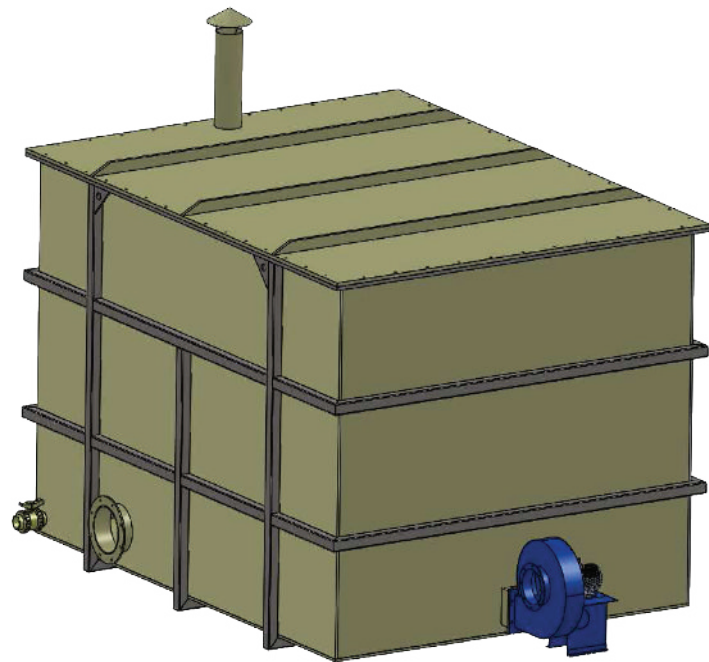
Biological air deodorization

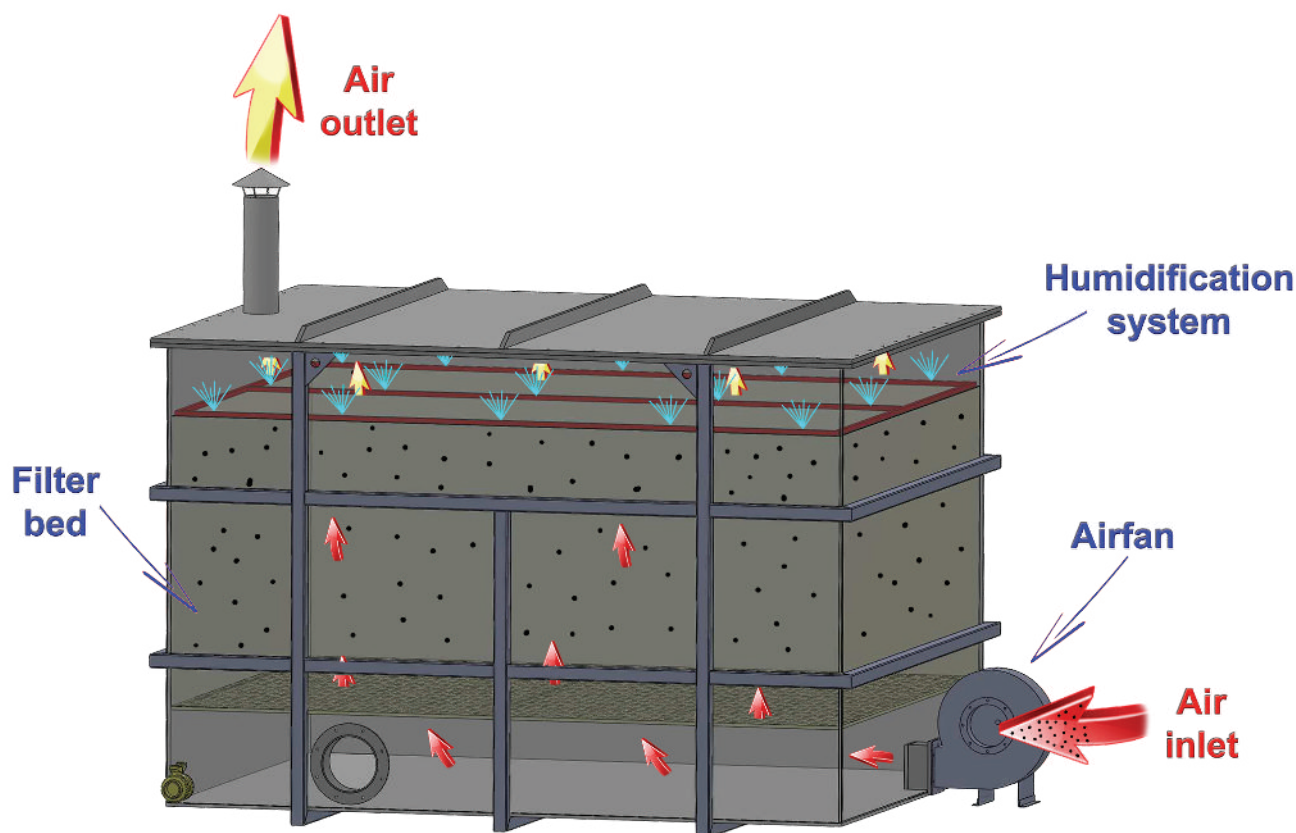
APPLICATION

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 m3/h	from : 100	to : 5.000
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

The biofilter is made of polypropylene and stainless steel AISI-304. The bed of biofilter material is positioned over a modular support system. The Humidification of the bed is controlled by an Irrigation System.

OPTIONAL

- Stainless steel AISI-316;
- Electrical panel;
- Temperature, pressure loss and humidity probes;
- Airfan