



# Biofilters for Odor Control in Fishmeal Plants



## ► Introduction

The biofilter system, also known as a biotrickling filter, actively controls odors in the fish meal processing industry. The system utilizes specialized microbial packing and filtering materials to biodegrade organic matter and purify gases.

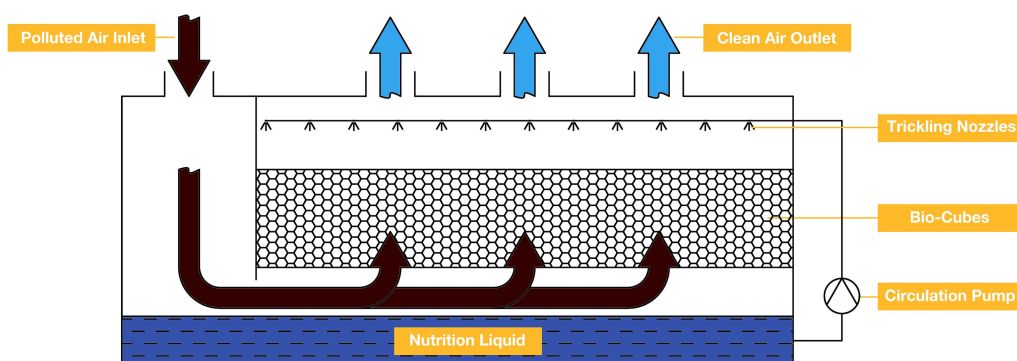
Our biofilter incorporates cutting-edge technology, ensuring high efficiency, stability, safety, and environmental friendliness. It has found widespread application in the fish meal processing industry.

## ► Features

- High purification efficiency: The biofilter uses special microbial packing and filtering materials to efficiently biodegrade organic matter and purify the gas.
- Strong stability: The product exhibits strong stability due to its advanced technology design and manufacturing, ensuring long-term and stable operation.
- High environmental protection: The biofilter biodegrades organic matter to purify the gas, featuring high environmental protection.
- Simple operation: The product uses an intelligent control system, featuring simple operation and easy maintenance.



## ► Working Principle



The biofilter system uses a combination of biological oxidation, adsorption, and absorption to remove odor and harmful gases from the air.

The system consists of a packed bed, which is filled with a mixture of organic and inorganic materials. The bed provides a substrate for the growth of microorganisms that break down the impurities present in the air.

As the air flows through the packed bed, the microorganisms in the bed oxidize and adsorb the odors and gases, converting them into non-toxic compounds such as carbon dioxide and water. The clean air is then discharged into the environment, while the contaminated water is treated before being recycled back into the system.

## ► Applications

The biofilter system finds common use in the fishmeal processing industry for eliminating odors and harmful gases released during the production process. Additionally, other industries such as food processing, chemical manufacturing, and wastewater treatment can also utilize the system.

The biofilter system is an effective and eco-friendly solution for air filtration, providing a clean and safe working environment for employees while also reducing the impact on the environment.



## ► Model & Selections

Model	*Dimensions(m)	Capacity(m <sup>3</sup> /h)	mATERIAL
BIO500	Φ1.2x5.5(H)	0-500	FRP/PPH
BIO800	Φ1.5x5.5(H)	500-800	FRP/PPH
BIO1500	Φ2.0x5.5(H)	800-1500	FRP/PPH
BIO2500	5.5(L)X2.0(W)X2.5(H)	1500-2500	FRP
BIO3500	7.5(L)X2.0(W)X2.5(H)	2500-3500	FRP
BIO5000	11(L)X2.0(W)X2.5(H)	3500-5000	FRP

*Material selection according to different raw materials: carbon steel, 304, 316L, double-sided stainless steel, etc.*

*We provide process design of fishmeal processing equipment, design and manufacture of supporting equipment, installation, commissioning, operation training, operation and maintenance, etc.*



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