

Bag filters FM series

EQUIPMENT TYPE

Dry filter.

APPLICATION

Remove dust and ashes from the air with an efficiency of above 99%.

OPERATING PRINCIPLE

Our Bag Filters offer an effective and efficient solution for cleaning the air from dust, generated by plant process, storage silos, mixers, dryers, Belt conveyors, etc It's the most used medium in the industry, to remove dust from the air due to its low energy consumption compared with other treatment technologies of fine particles.

Bag Filters are devices in which the dust essentially separates itself from the carrier gas, after creating more layers on the porous filter media.

Our standard Bag Filter is made of the filtration elements housed in a casing. Below this casing is a hopper with a discharge valve, which continuously removes the dust that is collected on the bags. The entire unit is supported from the ground on structural legs. A caged ladder provides access to the top of the unit for maintenance.

The dust laden air enters through the hopper. The heavier dust particles fall off at the entry itself, while the lighter dusts get carried upward to the bags.

The dust gets deposited on the outer surface of the bags and the clean air moves upward from the center of the bags through the outlet plenum to the top air outlet.

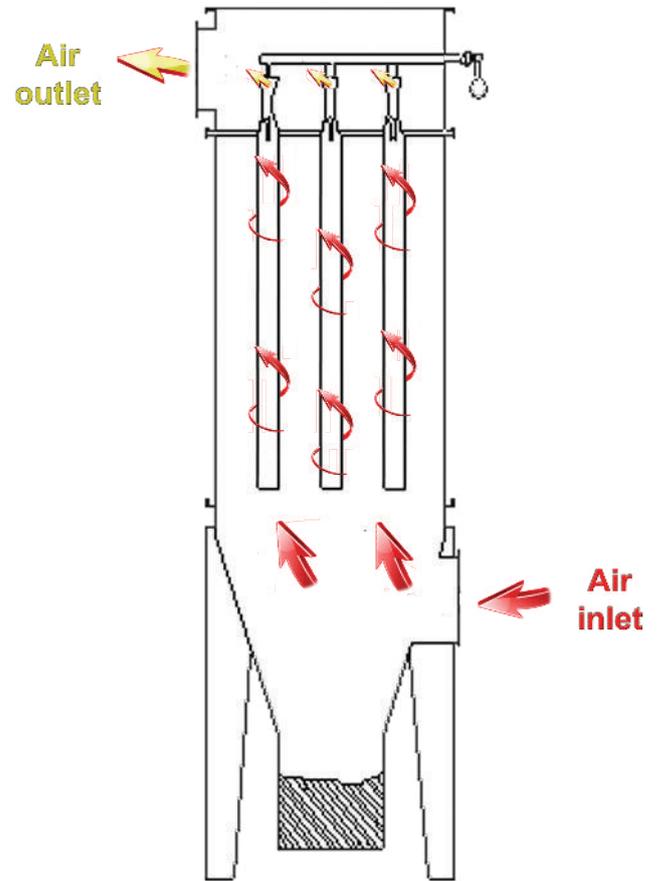
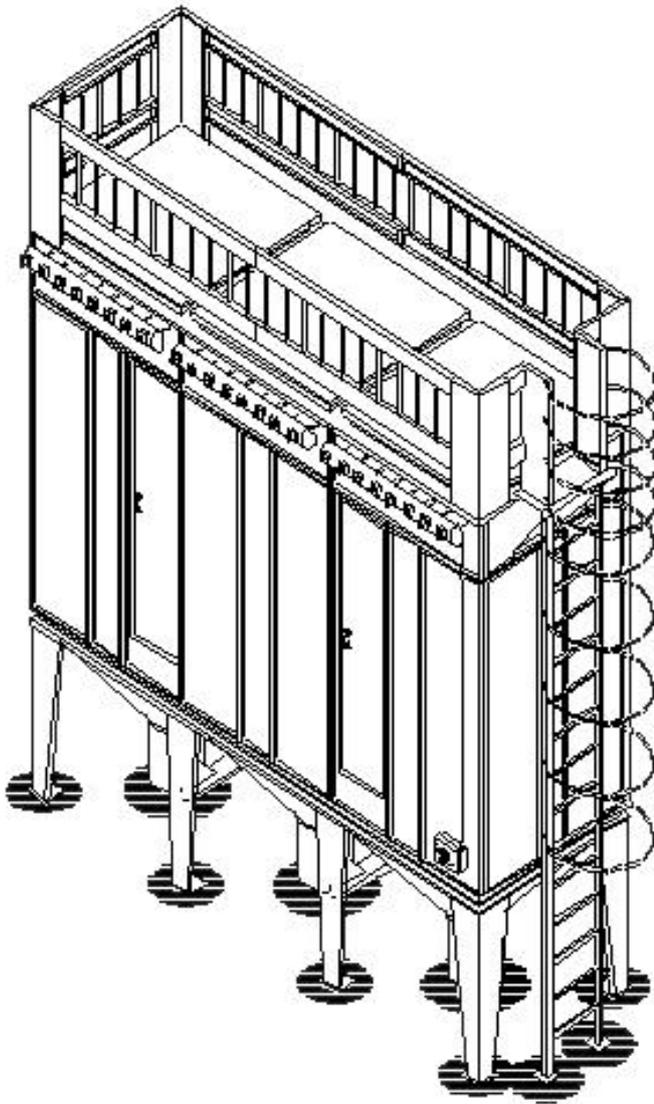
The dust collected on the outer surface of the bags is removed in a pre-determined cycle by a momentary pulse of high-pressure compressed air. The compressed air moves from an air reservoir or compressed air header via the particular pulse valve into the compartment manifold and therefrom into the bags in the row beneath it. The pressurised entry of compressed air through the venturi into the bags, inflate the latter. And the dust cake formed on the bag surface slides down in the form of flakes. The cages help the bags retain their original shape once the effect of the compressed air is gone. This completes the cleaning process. The dust slides down the hopper walls to the rotary air.

The lock valve is a rotating device which discharges the dust continuously, all the while maintaining an air seal.

MAIN ADVANTAGE

Steel Industry / Cement Industry / Power / Agro Based - Sugar - Rice - Tobacco / Breweries & Distilleries / Drugs & Pharmaceuticals Industries / Food Processing / Wood Industry / Paints & Dyes / Textiles Industries / Soaps ,Detergents & Waxes Industries / Paper & Pulp Industries.





Gas flow m ³ /h	from : 10000	to : 70000
Dimensions	As required by the customer.	

CONSTRUCTION

A bag filters can be constructed in painted steel, galvanized steel and stainless steel AISI 304 or 316

OPTIONAL

- Construction in stainless steel
- Electrical panel
- Airfan
- Inverter