



Dust Collection Systems

Designer-Manufacturer-Exporter-Supplier





Filter Concept is manufacturer of Dust Collection system for various Industries requirement for emitted air quality improvement and enhancing the quality of air released by collecting dust and other impurities from air or gas. We are a manufacturer of highly customized units to accurately match your Application requirements with customized Ducting & Blower solutions along with our dust collectors for your specific dust collection requirements.

Dust Collection systems further classified as :

- Manual Shaker Mechanism Dust Collector
- Motorized Shaker Mechanism Dust Collector
- Pulse Jet Dust Collector
- Cartridge Dust Collector

Manual Shaker Mechanism Dust Collector

Construction

Manual dust collector is consist of Filter Housing, baffle plate, Filter Bags , Manual shaker mechanism & dust collection bin

Operation

Contaminated air enters into Dust collector through inlet . Due to baffle plate heavy particles coming with contaminated air shall fall down and shall not damage the filter Bags. This will greatly reduce load on filter bags. Further contaminated air with lighter particles shall pass through Filter Bags chamber. Where filtration takes place from inside to outside. Particles get deposited inside of filter bags and clean air pass through outlet connection. Particles deposited inside of filter bag shall fall down during shaking operation performed with manual operated mechanism

Motorized Shaker Mechanism Dust Collector

Construction

Dust Collection Unit, Baffle Plate, FILTER Bags, Motorized Shaker mechanism, Drain Chamber, Differential Pressure Gauge, Leaver/ Locator

Operation :

Contaminated air enters into Dust collector through inlet . Due to baffle plate heavy particles coming with contaminated air shall fall down and shall not damage the filter Bags. This will greatly reduce load on filter bags. Further contaminated air with lighter particles shall pass through Filter Bags chamber. Where filtration takes place from inside to outside. Particles get deposited inside of filter bags and clean air pass through outlet connection. Particles deposited inside of filter bag shall fall down during shaking operation performed with motor operated mechanism

Pulse Jet /Cartridge Dust Collector

Construction

Pulse jet/Cartridge type dust collector is consist of Filter Housing, baffle plate, Filter Bags /Cartridge, solenoid valve, sequential timer, compressed air header, drain valve, safety valve, differential pressure gauge & rotary valve

Operation :

The dirty or contaminated air enters the dust collector through the inlet. Due to baffle plate heavy particles coming with contaminated air shall fall down and will not damage the filter Bags/Cartridges. This will greatly reduce load on filter bags/cartridges. Further contaminated air with lighter particles shall pass through Filter Bags chamber. Where filtration takes place from outside to inside.

Particles which deposited on the exterior surface while allowing clean air to pass through the outlet. As the collector operates, the collected dust begins to form dust cake, which eventually diminishes the porosity of the filter Bags/Cartridges.

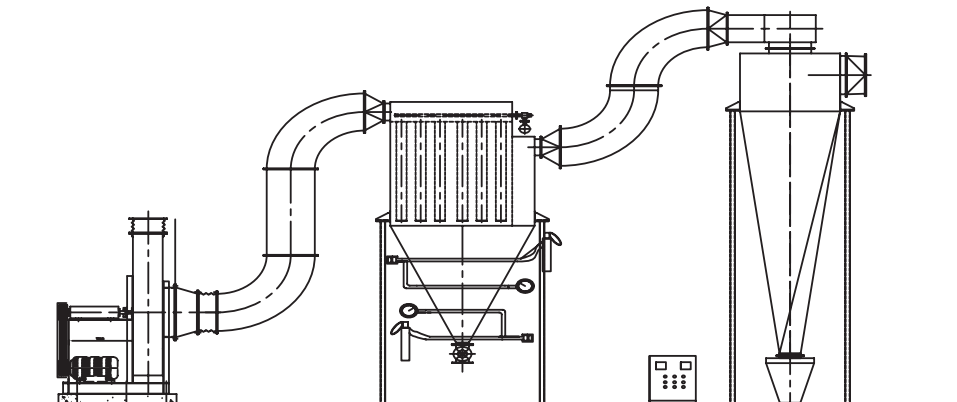
To maintain a moderate pressure drop, the cleaning cycle is employed to provide continuous cleaning of the filter Bags/Cartridges. The cleaning system consists of a Sequential time controller, which actuates Solenoid Valve and the Compressed Air Header. These Compressed Air Header momentary burst or pulse of high pressure compressed air through the blow pipe into the filter tube. This Pulse of air creates reverse flow of air, which expands the filter cartridges to remove the collector dust. The cleaning procedure occurs on a row-by-row basis therefore only a fraction of total filter air is interrupted for cleaning allowing continuous ventilation. The dust cake when pulsed from the filter bag/Cartridges falls directly into the bucket at the bottom where it is removed.

Features & Benefits

- Easy to operate and Handle
- Easy to install & remove
- Low consumption of compressed air (for cleaning)
- High Filtering efficiency even for the finest dusts
- Filter media selection as per application
- Accessories as per client's request

Applications

- Pharmaceuticals
- Cement
- Powder & Coating
- Metals & Minerals
- Chemicals
- Steel & Power





Filter Concept Pvt. Ltd.

(An ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified Company)

Corporate Office

302, "Aalin", Opp.Gujarat Vidhyapith,
B/h. Jet Airways Office, Ashram Road, Ahmedabad - 14.

Gujarat, INDIA.

Phone : +91-79-2754 1602, 2754 0069, 3291 8518

Fax : +91-79-2754 0801

E-mail : info@filter-concept.com

Manufacturing Unit

A-6, Pushparaj Industrial Estate,
Nutan Mill Compound, B/h. City-Gold Theatre, Saraspur,
Ahmedabad-380018. Gujarat, INDIA.

Phone : +91 -79 -2220 1921, 2220 1292

Fax : +91-79-2220 1911

E-mail : factory@filter-concept.com



Designed By: e-brandstudio.com