



**Technology &  
Business Intellectual**

**Bag Filter**

# Bag Filter



Bag Filter (also known as bag house, pulse jet filter) is an air pollution control device that removes dust particle from the gas through the filter media. Dust laden gases enter in the Bag Filter through the ducting and pass by fabric filter or filter bags. Here dust is trapped by filters and clean air or gas vents into the atmosphere.

## The Working Principle

- The Bag Filter is mainly divided into two sections, i.e. clean air chamber and dirty chamber.
- Dust-laden gases enter in the Bag Filter; this area is known as the dirty chamber.
- In the dirty chamber, dust is trapped by filter media, and clean air or gas passes through the filter media into the atmosphere.
- Due to the continuous process, dust collected on the filter media is cleaned by pulse jet air.
- Cleaned dust is discharged by a rotary air lock or knife gate valve from the dirty chamber.

# Bag Filter



## Advantage of TNBi Bag Filter

- Automatic dust extraction unit with maximum filter area utilization under minimum space requirements.
- Capacity designed up to 500000 m<sup>3</sup>/hr
- Temperature up to 260 deg C
- Pressure from full vacuum to 33 bar.
- Design as per application and sizes differ with space and application.
- Easy maintenance with less man power.
- Wide experience to handle multiple type of dust.
- Quick & Reliable services.
- Guaranteed Performance.
- ATEX Compliance can be offered.

## Industries Served

- Steel
- Cement
- Drugs and Pharmaceuticals
- Power
- Agro Based / Sugar / Rice / Tobacco
- Breweries and Distilleries
- Food Processing
- Paper and pulp
- Solvent Extraction
- Textiles
- Soaps, Detergents & Waxes
- Non-Ferrous Metallurgy
- Paints, pigments and Dyes
- Tyres
- Wood Processing
- Etc.



## OTHER PRODUCT LINE

### Classifier



### Scrubber



### Cyclone



### Centrifugal Blower



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