BAG FILTER

Introduction

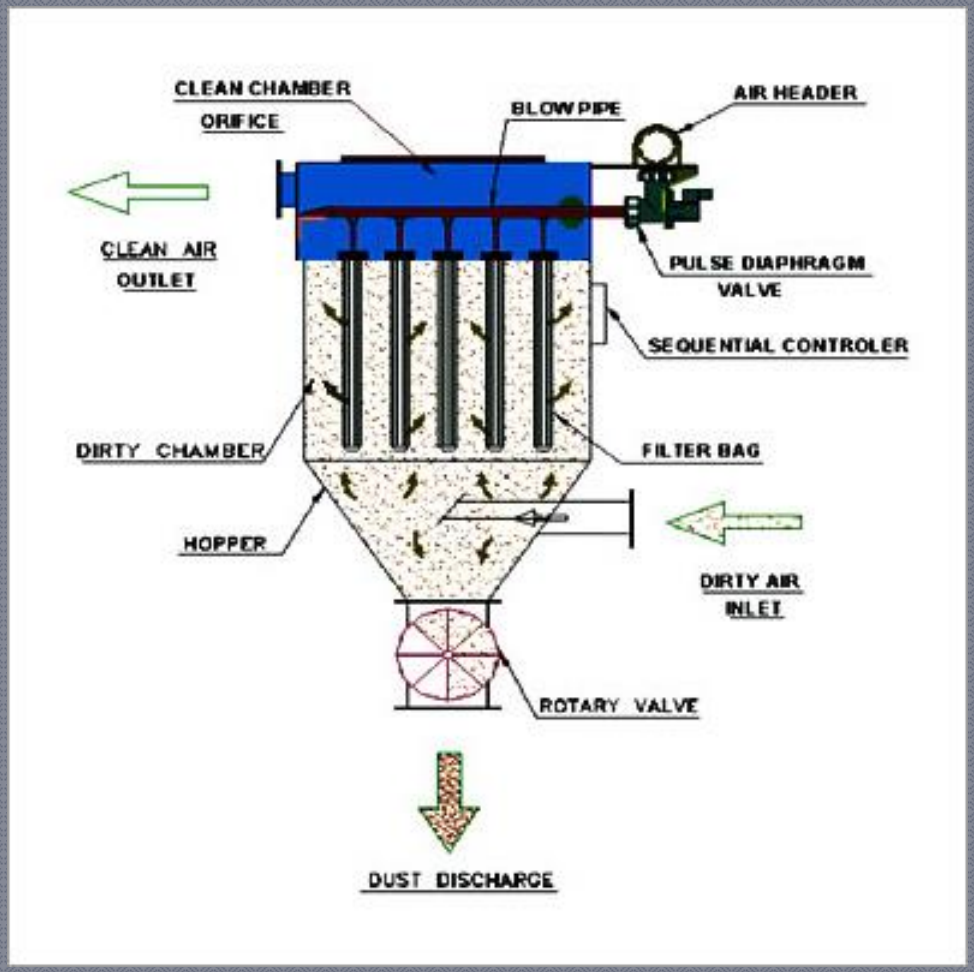
Bag filters are also commonly called fabric dust collectors that are used in large industrial units for separating dust particles from dusty gases. These types of bag filters can achieve efficiency level of almost 99% for collection of very fine particulates. Dust laden gases enter the structure of bag house and passed through fabric bag that acts as a filter. Bag filters are the most efficient and cost effective type of industrial dust collectors. Bags used in bag filters are made using different kind of fabrics like cotton, synthetic or glass fibre material. The shape of the bag is either like a tube or an envelope.

Working of Bag filter

- The dust-laden air passes through the bag filter bustle.
- The air is evenly distributed evading channelling.
- Initially a coat of material appears on the bags. Consequently, the coat functions as the filtering medium.
- The dust is collected on filter elements whilst the air passes through the filter bags from outside to inside.
- The accumulated powder is dislodged from the bags by turning around pulse-jet air or by mechanical shaking irregularly.

- The dislodged powder falls on bottom cone and is released through powder discharge valves.
- The dust free air is sucked by induced draft fan and is fatigued to atmosphere.
- Knockers are provided on conical portion especially for sticky/hygroscopic materials.
- Pulse valve is a key components of pulse bag filter. Its service life is the user of the concerns of problems. Our company can provide according to the user's demand to provide the filter bag and pulse valve.

Working of Bag Filter

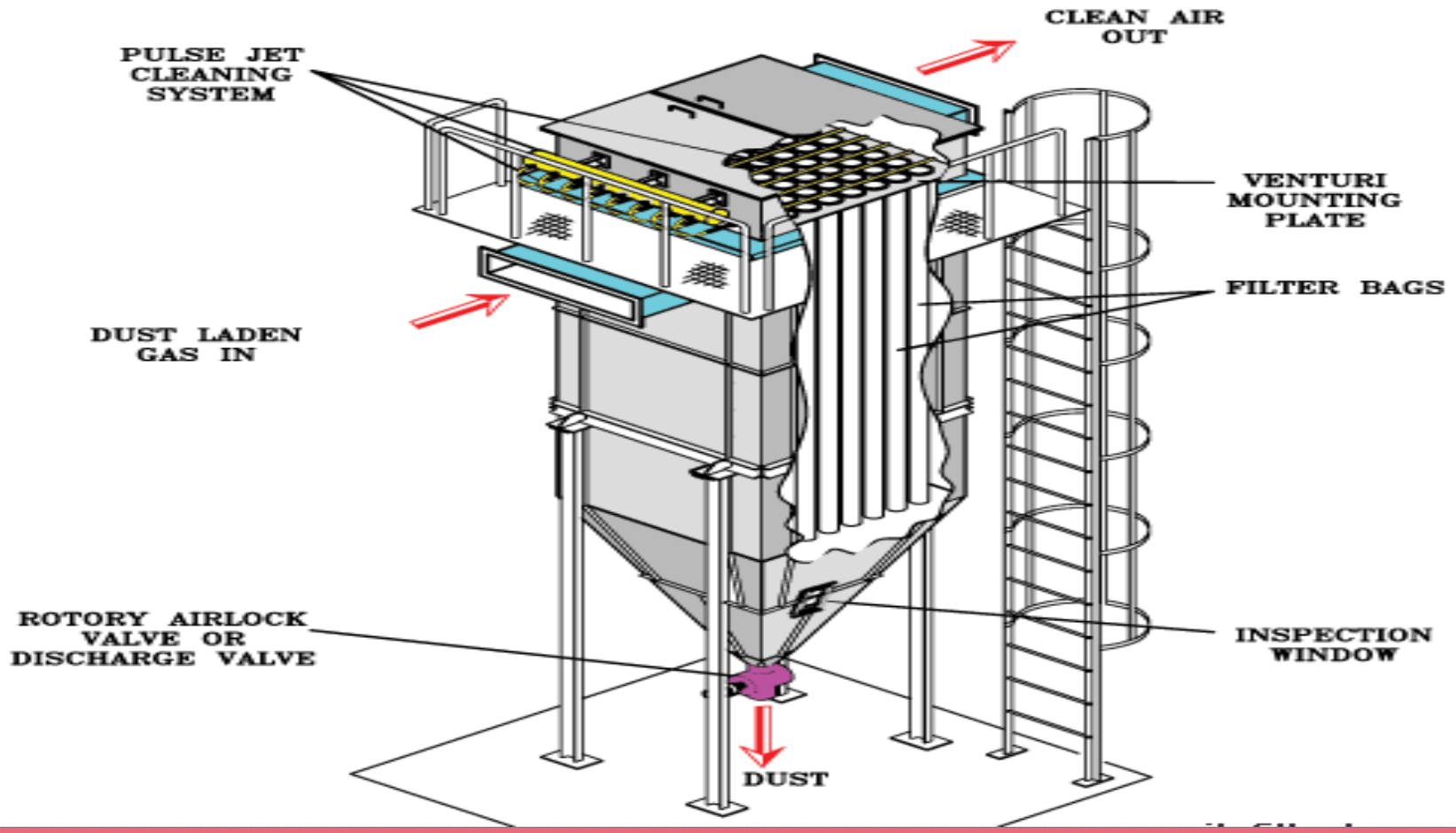


Industrial Uses

- Bag filters are filters used in industrial units for filtering dusty gases.
- The basic function of bag filter is to separate dust particles for dusty gases released by different production processes.
- The structure of a bag filter is made up of a fabric bag crafted using different kind of fabrics and a motor that powers the machine.
- Bag filters are considered to be the most efficient among all dust collectors because it can attain efficiency level up to 99%.

- The mechanism of bag filters works in a very smooth and convenient way.
- Bag filters are used in all industrial small or large units to collect dust particles blown out in toxic releases.
- Air Control System is in manufacturing of highly durable and high performance Unit Dust Collectors used in diverse dust collection applications.
- These Mechanical Shaking Bag Filters are generally used for removing dust in industrial applications.

- In Pulsejet Bag Filters, particles are captured on the internal surface to cater the requirement of dust collection.
- We use our state of art production facility to construct and test our high performance oriented bag filters.
- We have a huge base of satisfied clients who appreciates our quality and service.


CLEAN AIR OUT
PULSE JET CLEANING SYSTEM
VENTURI MOUNTING PLATE
FILTER BAGS
DUST LADEN GAS IN
ROTORY AIRLOCK VALVE OR DISCHARGE VALVE
INSPECTION WINDOW
DUST

Applications

- Cement
- Starch
- Detergent
- Biochemical
- Food industry
- Paint industry
- Bulk chemicals

- Pharmaceutical
- Dyes & Pigments
- Ceramic industry
- Mining & Minerals

Bag House

Advantages

- Top Quality Media
- Easy removal of bags for cleaning.
- Tailored to suit customer requirement.
- Temperature range from -35°C to 400°C
- Various options of filter media to suit the process.
- Designed to operate at lower pressure drop thus reducing the power requirement

Bag Filter

- Pulse Jet Bag Filter

Contact

Air Tech Engineering

Address: No.33, First Street, Srinivasa Nagar,
(Near Prince Info City),
Rajiv Gandhi Salai,
Kandanchavadi,
Chennai-600 096.

E-mail: airtecheng2010@gmail.com
sales@airtechengineering.in

Mobile: +91 7200031754

SEO 360° SEO Tech Solution