BAG FILTER

A bag filter is a filteration device that uses a fabric bag to Separate solid particles from a gas or liquid stream. In gas filtration (like dust collectors), dusty air passes through fabric filter bags that trap particles, allowing clean air to exit. In liquid filtration, the liquid flows through a filter bag that captures suspended solids, letting clear liquid pass through.

APPLICATIONS

- Water Treatment
- Food & beverages
- Chemical plants
- Cement Industry
- Power Plants
- Wood working
- Petrochemical Industries
- Pharma Industries

MAJOR COMPONENTS

Filter Bag – Made of woven or nonwoven fabric (e.g., polyester, polypropylene, PTFE).

Support – Metal frame inside the bag to prevent collapse.

Bag Housing– Steel casing to hold the bags and direct flow.

Inlet & Outlet Ducts – For dirty and clean gas/liquid.

Tube Sheet – Plate that holds bags in place.

Dust Collection Hopper - for dry dust applications.

Cleaning Mechanism – Pulse jet nozzles, shaking rods, or reverse airflow system.

Seals & Gaskets – Prevent leakage.

TECHNICAL PARAMETERS

Parameter	Range
Particle removal	95 – 99%
Temperature	Ambient to 260 °C
MOC	MS, Stainless Steel