



The BSAT filter containers shall be connected to a vacuum unit/power pack to complete a heavy duty vacuum system.

## BSAT Top Mounted Filters

*The BSAT Filter Separators meet the high demands from the industry due to its efficiency, reliability, ease of operation and maintenance giving excellent value for money.*

The BSAT-Series are complete stand-alone vacuum filter separators designed to be part of a vacuum system by connection to a vacuum unit. The top section contains the filter and filter cleaning device, the mid section is the gas entrance with high efficiency cyclone inlet. The lower conical part is the dust bin for separated and collected material, and shall be equipped with discharge device adapted for material and operation conditions.

- Rigid design for industrial use
- Designed for high vacuum systems
- Filter systems for most materials and even liquids
- Automatic filter cleaning without compressed air
- Hopper with favourable angle of repose (70°)
- Several options for filter quality and accessories

### WHY BSAT

One of the most important problems to solve when planning an industrial central vacuum system is the handling of the collected dust and material.

BSAT is designed to handle most materials and dust that will allow discharge through a conical hopper opening. The unit can be equipped with several types of discharge system to be connected to the bottom flange i.e. flap valve, vacuum sluice system, big-bag filling etc. The BSAT Filters are specially suitable for dusty material, fines and similar due to the efficient pre-separator cyclone built-in.

### OPERATION

The vacuumed material is first separated in the wear proof cyclone where the particles are guided to fall into the bin

compartment. From there the air stream will continue to the main filter system where any remaining fines will be separated and the clean gas is led to the vacuum unit.

Collected material is discharged through the bottom valve system which shall be designed for the specific material and operational condition of the vacuum system.

The Filter Separator is equipped with automatic ATM (air repulse) filter cleaning. When activated, large air inlets will ensure a fast backwards air direction through the filter bags, thus in an efficient way knocking off collected dust from the filter bag surface. The filters can also, as an option, be equipped with pneumatic JET-pulse filter cleaning as well as several monitoring devices i.e. high level control, Dp-control etc.

The BSAT Filter Separators are designed for stationary operation and shall be placed on a steel structure stand support adapted to discharging conditions.

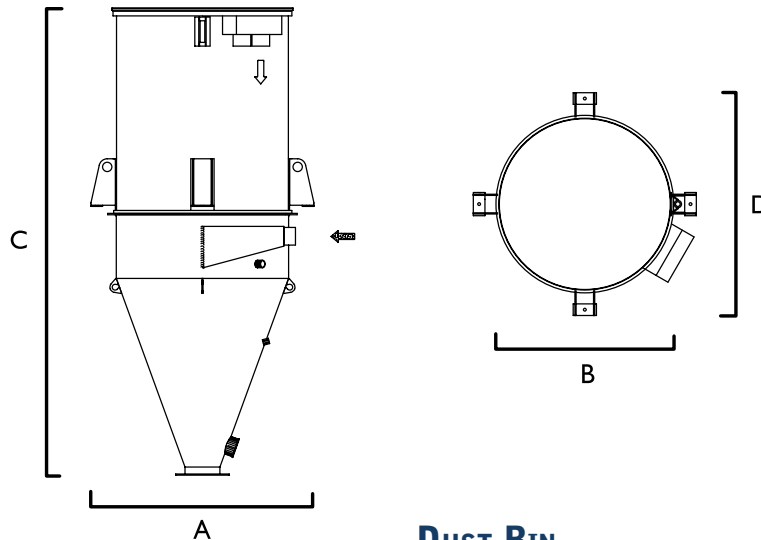
### APPLICATIONS

For use in any industrial application where reliable filters are requested for separation and collection of dust or material in vacuum systems.

BSAT can operate both indoor and outdoor.

### TYPICAL USERS

Industrial vacuum plants installations in; power plants, pulp- and paper, lime-, plaster- and concrete, steel works, foundries, bakeries and food industry, alumina plants, fertilizers and chemical industry, quarries and mines etc...



## MAIN FILTER

Filter compartment contains a filter system. The filter sleeves are made of specially treated polyester needle felt and has a quick mounted "snap ring fastener". Service of filters is easy from outside the clean gas side and no tools are required. Filter hatch is with hydraulic manoeuver or with gas damper for easy access.

## AUTOMATIC FILTER CLEANING

The unit is normally equipped with a vacuum controlled ATM (air-repulse) filter cleaning system ensuring fast and large backwards air direction through the filter bags, thus in an efficient way knocking off dust collected on the surface of the filter bags. The frequency as well as the duration for this air repulse can be adjusted to suit the type of dust or operational condition. This system also works as a vacuum relief valve during start and stop of the vacuum system. The advantage with this system is reliable function at low cost and no need for compressed air.

The filters can also, as an option, be equipped with pneumatic JET-pulse filter cleaning.

Controls for the filters are normally installed in the electric cabinet of the separately supplied PES vacuum power unit.

## DUST BIN

The hopper is an integrated part of the filter compartment and the whole unit is designed to stand on four legs. It is a tightly welded construction with external strength-ening and is equipped with an inspection door. The inlet pipe of the unit can be easily guided in the best position as this part can be rotated 360°. The wear zone of the cyclone is made in 6 mm wear resistant manganese steel. The outlet flange is as option available in many sizes to fit special requirements.

## MISCELLANEOUS

Dust emission: < 20 mg/Nm<sup>3</sup>  
Hose-/pipe-connect: 152 mm  
Material: Steel S 235 JG2  
Painting: System M2, RAL 5007 blue

## OPTIONS

- Bin level and Dp control
- Pneumatic Jet-Pulse filter cleaning
- Sluice discharging system
- Big-bag filling system
- Other outlet flange dimensions
- Customized supporting stand
- Service platform
- Customer painting specification
- 800 mbar operation

Item \ Model		BSATS-5	BSATS-10	BSATS-21	BSATL-30	BSATL-40
Dimensions, mm	A	970	1500	1780	1780	1780
	B	920	1500	1780	1780	1780
	C	2120	2695	3500	4150	4150
	D	990	1600	1745	1812	2135
Weight, kg (excl. stand)		230	540	610	640	680
Main Filter Surface, m <sup>2</sup>		5	10	21	30	40
ATM filter cleaning		yes	yes	yes	yes	yes
Jet-pulse, optional		yes	yes	yes	yes	yes
Bin volume, litres		175	650	1000	1000	1000
Discharge flange		200	250	250	300	300
Dust Inlet Connection, dia mm		152	152	152	152	152
Clean Air Connection, dia mm		1x152	1x152	1x152	2x152	2x152
Max. vacuum, mbar		500	500	500	500	500

We reserve the right to alter any specifications without prior notice

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