



**Standard for clean air**

**Separation of the finest and most voluminous dust with minimum space requirements**



The integrated filter bags are very sturdy and reliably separate even large air flows as a result of their large filter surface. The space requirements of the separator are, however, kept to a minimum.

# Reliable extraction of large air flows

## The task

The JET-SET series is especially suitable in the separation of fine and voluminous dust in a wide range of applications.

Virtually all types of dust can be separated easily: in metal and plastics

processing, the recycling industry, or in the paper and stone industry, as well as in earthenware. The JET-SET filters have a modular design. This enables flexibility for different requirements such as dust characteris-

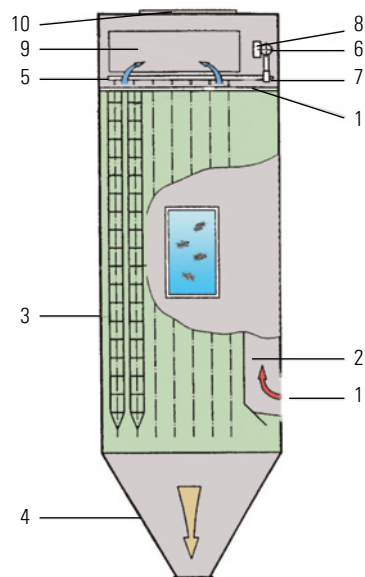
tics, accumulated dust volume, or the air flow to be extracted, etc.

The silent units enable trouble-free 24-hour operation with a continuous air flow.

Examples of applications	
metal processing	plastics machining
recycling industry	pulp/paper industry
chemical industry	nonmetallic mineral processing

## Operation

The dust-laden air (dirty air) flows through the inlet opening (1) into the filter unit. A baffle plate (2) slows down and deflects the coarser dust particles to avoid direct impact on the filter. The dirty air is directed onto the filter plenum (11) and circulates from the top down around the filter elements (3), causing the settling of fine dust particles. The dust-laden air flows through the filter bags to the inside while the dust particles remain on the filter surface. The separated air (clean gas) flows from the separator through the clean gas outlet (9) and is either re-circulated into the workplace or vented outdoors.



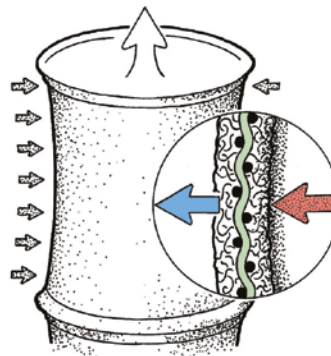
- 1 dirty air inlet
- 2 baffle plate at the dirty air inlet
- 3 filter bags
- 4 waste disposal hopper
- 5 jet piping to clean the filter elements
- 6 compressed air tank
- 7 electromagnetic membrane valve
- 8 electrical cabinet
- 9 clean air outlet/ dirty air connection
- 10 maintenance access door
- 11 filter plenum

## Advantages

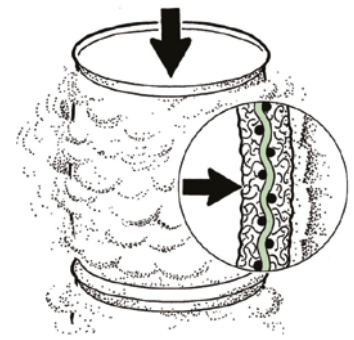
- minimal space required
- large filtration area
- low filter resistance
- universal applications

### Filter elements

The filter bags function as filter elements. There are a variety of options available based on the application. Electromagnetic membrane valves can be operated by means of an independently programmable control (7), activated either by differential pressure or by a pre-set timer. The stored air in the compressed air tank (6) is released by the blast pipes (5) creating a reverse back pulse originating on the dirty air side. The surface-loaded dust on the filter elements is thereby continuously cleaned and falls through the waste disposal hopper (4) into the collection container.



Filter access openings



Filter elements during the de-dusting process



Depending on the quality of the discharged air, the purified exhaust air from the filter can be returned to the workplace (return air) or discharged to the outdoors (exhaust air) via pipes and ducts (also heat exchangers). Switching type of operation is also feasible by means of a conversion device inside the exhaust air duct.

### Waste disposal

The air-tight and dust-tight disposal bins are connected to the filter hopper with a clamping device, simplifying the exchange of dust collector bins. For larger dust quantities or

during 24-hour operation, continuous disposal is accomplished by means of a rotary lock in the waste disposal bin or by the use of Big-Bags.

### Safety

The JET-SET filter can be equipped with additional safety devices when processing combustible or explosive dusts. Regulations such as the ATEX,

VDI 2263, VDI 3673 etc. are always taken into consideration.

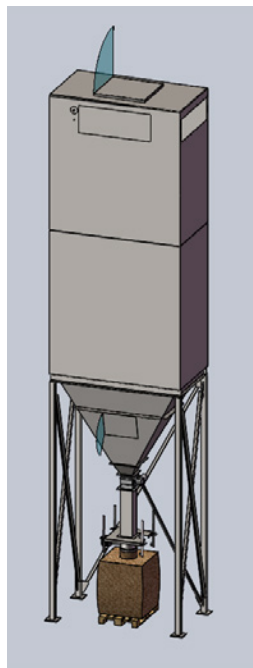
## Dimensions and technical information

Type	JET-SET single-cell model	JET-SET double-cell model	JET-SET 3-cell model	JET-SET 4-cell model	JET-SET 5-cell model	JET-SET 6-cell model
Max. air flow [m³/h]	15000 m³/h	30000 m³/h	45000 m³/h	60000 m³/h	75000 m³/h	90000 m³/h
Filter surface [m²]	189	378	567	756	945	1134
Length (min./max.)* [mm]	1945/2755	1945/2755	2760	2760	2760	2760
Width [mm]	1542	3084	4628	6170	7714	9256
Height (min./max.)** [mm]	6600/14420	7610/11630	7630/11630	7630/11630	7630/11630	7630/11630

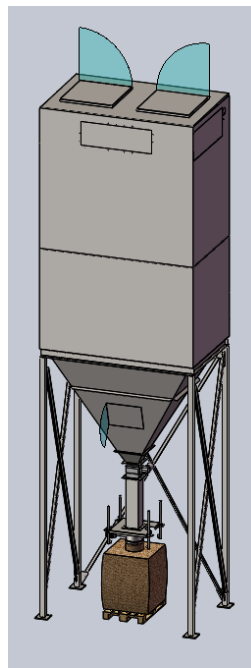
\*Depending on the number of hoses.

\*\*Depending on the disposal concept and the length of the hoses used.

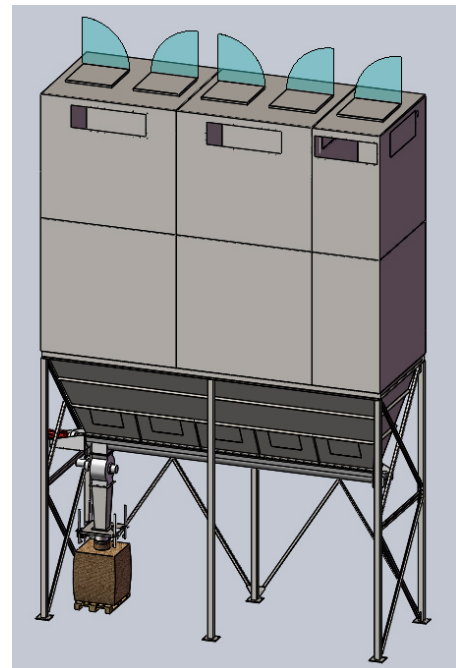
Subject to modifications



Sample installation  
JET-SET 1-single-cell model



Sample installation  
JET-SET double-cell model



Sample installation  
JET-SET 5-cell model

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