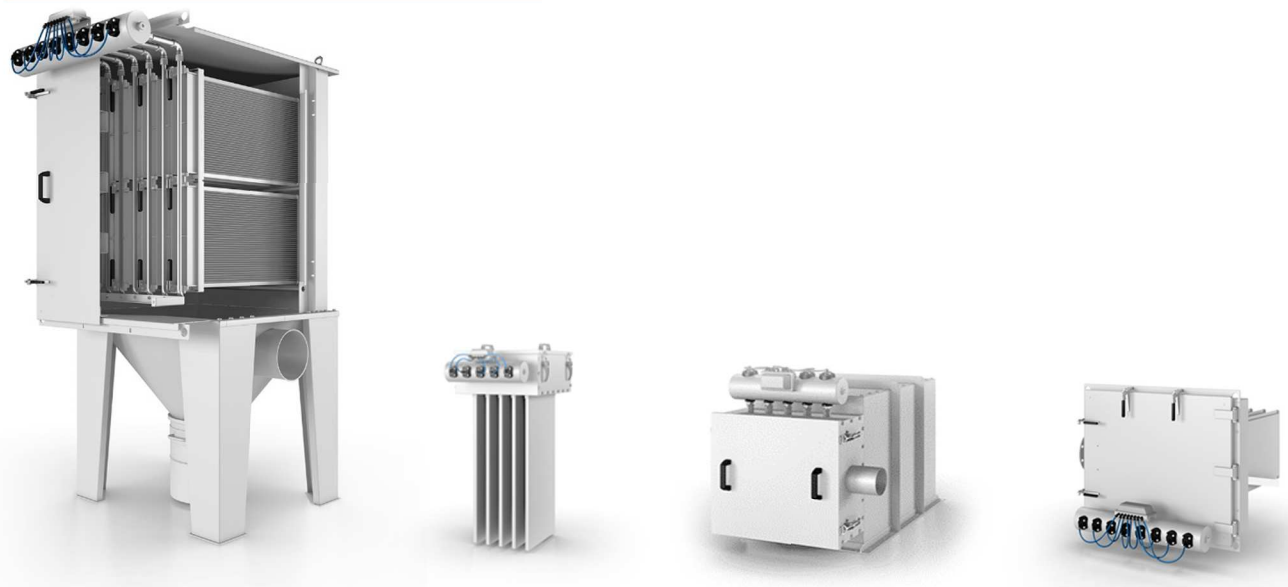


# AAS AERSTAR

## Filter bag with fully automatic compressed air cleaning



AAS Model series 1

AAS 3

AAS 5

AAS U

### Functional Description

The AERSTAR with its efficient and economic cleaning system, is especially suited for 24/7 systems, in which the suction/conveying cannot be interrupted. The filter bags are continuously cleaned. An efficient air-pressure impulse removes the filter cake from the filter bags. The special design of venturi nozzles, at the end of the filter support cage, enables the usage of secondary air, which enhances the economical air-pressure impulse. This results in an optimal filter cleaning, while reducing the usage of pressure-air and allowing a continuous filtration process. The cleaning duration/impulse can be individually adjusted. The inside of the AERSTAR raw gas chamber does not have any moveable parts and is declared as an ATEX 20 Zone.

All different types and models of the AERSTAR can be designed for a  $P_{red}$  of 2bar abs. and are suitable for a suction process up to -800mbar. The dedusting units can be individually designed and build according to customer specification with: bursting disc, rotary valve and different ventilators. Depending on the requirements of the production process, the AERSTARS can be made out of normal steel, product touched in stainless steel or build entirely out of stainless steel. The AERSTAR models "Standard", "Extra" and "Hygiene" were especially developed for the different industrial cleaning- and hygienic- requirements. The insertable filters can be installed either vertically or horizontally.

### Aerstar AAS

The bag filter AERSTAR AAS is cleaned by pressure impulse and is best suited for venting of pneumatic conveyor systems and all dedusting tasks in that process. This applies especially for potentially explosive dust-air-compositions. We want to emphasize the beneficial horizontal mounting of filter bags.

### Application in various industrial sectors

- Bulk goods/powder technology
- food industry
- chemical industry
- pharmaceutical industry
- sand-blasting systems/enamelling lines

### Advantages

- Maximum filter capacity
- High efficiency
- Modular structure
- Custom model
- Low maintenance operation

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## Layout guidelines

Calculating the required filtering area:

for Polyester-needled felt, standard:  
for polyester-needled felt with PTFE:

$A_{\text{Filter}} [\text{m}^2] = \text{Air volume} [\text{m}^3/\text{h}]/90$   
 $A_{\text{Filter}} [\text{m}^2] = \text{Air volume} [\text{m}^3/\text{h}]/60$

Use of filter media	Pure gas content	Grain sizes	Dust volume
Polyester-needled felt, standard	< 10 mg/m <sup>3</sup>	> 0.5 µm	< 500 g/m <sup>3</sup>
Polyester-needled felt with PTFE	< 2 mg/m <sup>3</sup>	> 0.1 µm	< 100 g/m <sup>3</sup>
With postfilter, suspended matter category H13	< 0.1 mg/m <sup>3</sup>	> 0.1 µm	< 0.01 g/m <sup>3</sup>

## Rows of filtering bags

Filter area	Type 0.2	Type 0.3	Type 0.4	Type 0.5	Type 0.6	Type 0.7	Type 0.8	Type 0.9
Bag size 1: 0.85 m <sup>2</sup>	1.7	2.6	3.5	4.5	5	6	7	8
Bag size 2: 1.1 m <sup>2</sup>	2.2	3.3	4.5	6	7	8	9	10
Bag size 3: 1.25 m <sup>2</sup>	2.5	3.75	5	7	8	9	10	12
Bag size 4: 1.6 m <sup>2</sup>	3.3	5	7	8	10	12	13	15

## Rows of filtering bags

Filter area	Type 2.2	Type 2.3	Type 2.4	Type 2.5	Type 2.6	Type 2.7	Type 2.8	Type 2.9	Type 2.12
Bag size 1: 0.85 m <sup>2</sup>	3.5	5.5	7	9	11	12	14	16	21
Bag size 2: 1.1 m <sup>2</sup>	4.5	7	9	11	14	16	18	20	27
Bag size 3: 1.25 m <sup>2</sup>	5	8	10	13	15	18	20	23	30
Bag size 4: 1.6 m <sup>2</sup>	7	10	13	16	20	23	26	30	40

## Technical Data

<b>Compressed air</b>	Connection < 6 bar	Consumption 0.02 - 0.2 m <sup>3</sup> /h/m <sup>2</sup>
<b>Controller</b>	Voltage:	Frequency:
	230 V	AC
	110 V	AC
	24 V	DC/AC

## Dimensions / Measurements

	Type x.2	Type x.3	Type x.4	Type x.5	Type x.6	Type x.7	Type x.8	Type x.9	Type x.12
<b>Width Br. 1</b>	340	445	550	655	760	865	970	1,075	1,390
<b>Width Br. 1/Bag length 1</b>	1,200								
<b>Width Br. 1/Bag length 2</b>	1,450								
<b>Width Br. 1/Bag length 3</b>	1,600								
<b>Width Br. 1/Bag length 4</b>	1,950								
<b>Height 1 row</b>	2,250								
<b>Height 2 row</b>	2,700								
<b>Overall size flange Width 3</b>	610 x 300	610 x 405	610 x 510	610 x 615	610 x 720	610 x 825	610 x 930	610 x 1,035	
	1,150 x 300	1,150 x 405	1,150 x 510	1,150 x 615	1,150 x 720	1,150 x 825	1,150 x 930	1,150 x 1,035	1,150 x 1,350
<b>Overall size flange Width 5</b>	1,000 x 440	1,000 x 545	1,000 x 650	1,000 x 755	1,000 x 860	1,000 x 965	1,000 x 1,070	1,000 x 1,175	1,000 x 1,490
	1,250 x 440	1,250 x 545	1,250 x 650	1,250 x 755	1,250 x 860	1,250 x 965	1,250 x 1,070	1,250 x 1,175	1,250 x 1,490
	1,400 x 440	1,400 x 545	1,400 x 650	1,400 x 755	1,400 x 860	1,400 x 965	1,400 x 1,070	1,400 x 1,175	1,400 x 1,490
	1,750 x 440	1,750 x 545	1,750 x 650	1,750 x 755	1,750 x 860	1,750 x 965	1,750 x 1,070	1,750 x 1,175	1,750 x 1,490

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