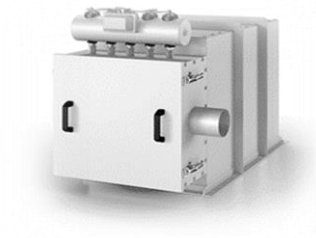
AAS AERSTAR

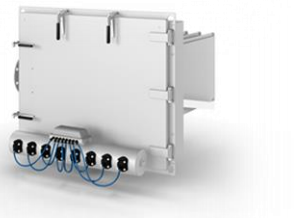
Filter bag with fully automatic compressed air cleaning

AAS Model series 1

AAS 3



AAS 5



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Functional Description

The cleaning occurs during an online process (while the system is in operation); during the counter-current process, compressed air is blown into the inside of the filter bags along with drawn in secondary air.
The mass inertia forces discard the dust that is adhering to the outer surface of the filter bag. This process repeats itself at precisely set intervals from one filter bag to another.

The intervals can be exactly set in relation to the dust concentration using the Pulstronic microprocessor control unit.
The filter elements can be installed horizontally or vertically; the connections for the crude and pure gas are freely selectable.
As no sources of ignition exist within the filter, the AAS AERSTAR is approved and suitable for all explosion zones. If required, it can also be supplied as a pressure surge-resistant model or with pressure relief. The AAS AERSTAR can also be equipped with a system directly attached fan on thepure gas side.

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 forpotentially explosive dust-air-compositions. We want to emphasize the beneficial horizontal mounting of filter bags.

Advantages

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

Application in various industrial sectors

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

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Geschäftsführer
Dr. Volker Bauer

www.bg-filtration.de

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Layout guidelines

Calculating the required filtering area:

for Polyester-needled felt, standard: A_{Filter}: [m^2] = Air volume [m^3/h]/90
for polyester-needled felt with PTFE: A_{Filter}: [m^2] = Air volume [m^3/h]/60

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

row 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^2	1.7	2.6	3.5	4.5	5	6	7	8
Bag size 2: 1.1 m^2	2.2	3.3	4.5	6	7	8	9	10
Bag size 3: 1.25 m^2	2.5	3.75	5	7	8	9	10	12
Bag size 4: 1.6 m^2	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^2	3.5	5.5	7	9	11	12	14	16	21
Bag size 2: 1.1 m^2	4.5	7	9	11	14	16	18	20	27
Bag size 3: 1.25 m^2	5	8	10	13	15	18	20	23	30
Bag size 4: 1.6 m^2	7	10	13	16	20	23	26	30	40

Technical Data

Compressed air	Connection < 6 bar	Consumption 0.02 - 0.2 $m^3/h/m^2$
Controller	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
Breite Br. 1	340	445	550	655	760	865	970	1,075	1,390
Width Br. 1/Bag length 1	1,200								
Width Br. 1/Bag length 2	1,450								
Width Br. 1/Bag length 3	1,600								
Width Br. 1/Bag length 4	1,950								
Height 1 row	2,250								
Height 2 row	2,700								
Overall size flange Width 3	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
Overall size flange Width 5	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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