

AAS AERSTAR

Bag filter with fully automatic compressed air cleaning



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 individual adjusted. The inside of the AERSATR raw gas chamber does not have any moveable parts and is declared as an ATEX 20 Zone.

The inside of the AERSATR 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" where especially developed for the different industrial cleaning- and hygienic-requirements. The insertabel 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

bg filtration gmbh

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Dr. Volker Bauer

Layout guidelines

Calculating the required filtering area:

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

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

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

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 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
Width 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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