

AAS AERSTAR

Silo filter and total separator with fully automatic compressed air cleaning



AERSTAR silo filter and total separator for pneumatic conveying and dedusting of silos during filling process. The horizontal installation of filter elements ensures low maintenance height and therefore more comfort and safety for maintenance staff. No moving or loose components in the raw gas chamber for maximum product safety.

Our tool-free filter change and an openable slot plate offer even more safety and ease of maintenance.

Our filters and separators can be equipped with quick-release fasteners up to pressure shock resistance of 1bar and are suitable for vacuum conveying down to -900mbar.

The filters can be individually equipped according to customer requirements (explosion protection systems, sensors, fans, etc.), as well as adapted to the process requirements in standard steel, product-contacted stainless steel or completely stainless steel. The versions Standard, Extra and Hygienic have been developed for different cleaning and hygienic requirements.

Aerstar AAS R5 & R7

Pressure surge cleaned filters AERSTAR AAS R5 and R7 series have proven themselves over decades in pneumatic conveying systems and silo dedusting under the highest requirements. This also applies especially for explosive and sensitive dust-air mixtures. We want to emphasize the beneficial horizontal mounting of filter elements.

Advantages

- Highest filter performance
- High efficiency
- Many variants
- Customized design
- Low maintenance height
- Maximum safety
- Also for large air and dust volumes
- Energy efficient

Use in various industrial sectors

- Bulk goods / powder technology
- Food industry
- Chemical industry
- Pharmaceutical industry
- Silo dedusting
- Aspiration applications
- Pneumatic conveying

Options

- Sensors and load cells
- Discharge systems
- Hygienic design
- Dustfree discharge (endless bag)
- Explosion protection systems
- Integrated HEPA Filter
- Pressure shock resistant up to Pred 1bar

bg filtration gmbh

Voithstr. 5
71272 Renningen, Deutschland
Fon +49 7159 8069-0
Fax +49 7159 7933
Info@bg-filtration.de

Kreissparkasse Böblingen
BLZ 603 501 30
Kto 118174
BIC BBRDE66
IBAN DE66 6035 0130 0000 118174

HRB 744965
Amtsgericht Suttgart
Geschäftsführer
Dr. Volker Bauer

AAS AERSTAR

Silo filter and total separator with fully automatic compressed air cleaning

Layout guidelines

Calculation of required filter area:

for Polyester-needle felt, standard:

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

for Polyester-needle felt with PTFE:

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

Use of filter media	Clean gas content	Grain size	Amount of dust
Polyester-needle felt, standard	< 10 mg/m ³	> 0,5 µm	< 500 g/m ³
Polyester-needle felt with PTFE	< 2 mg/m ³	> 0,1 µm	< 100 g/m ³
with endfilter H13	< 0,1 mg/m ³	> 0,1 µm	< 0,01 g/m ³

1 Row of filter elements

Diameter	D800	D900	D1000	D1120	D1250	D1400	D1600	D2000
Filter surface (Bag)	3	5,1	6	8,3	11	12,5	17,1	24
Filter surface (Micropore)	7	10,8	12,6	17,5	24,2	28	33,6	42
Height cylinder AAS R5	900	900	1000	1000	1100	1100	1200	1200
Height cylinder AAS R7	1100	1100	1300	1300	1400	1400	1500	1500

2 Rows of filter elements

Diameter	D800	D900	D1000	D1120	D1250	D1400	D1600	D2000
Filter surface (Bag)	6	10,2	12	16,6	22	25	34,2	48
Filter surface (Micropore)	14	21,6	25,2	35	48,4	56	67,2	84
Height cylinder AAS R5	1400	1400	1500	1500	1600	1600	1700	1700
Height cylinder AAS R7	1600	1600	1800	1800	1900	1900	2000	2000

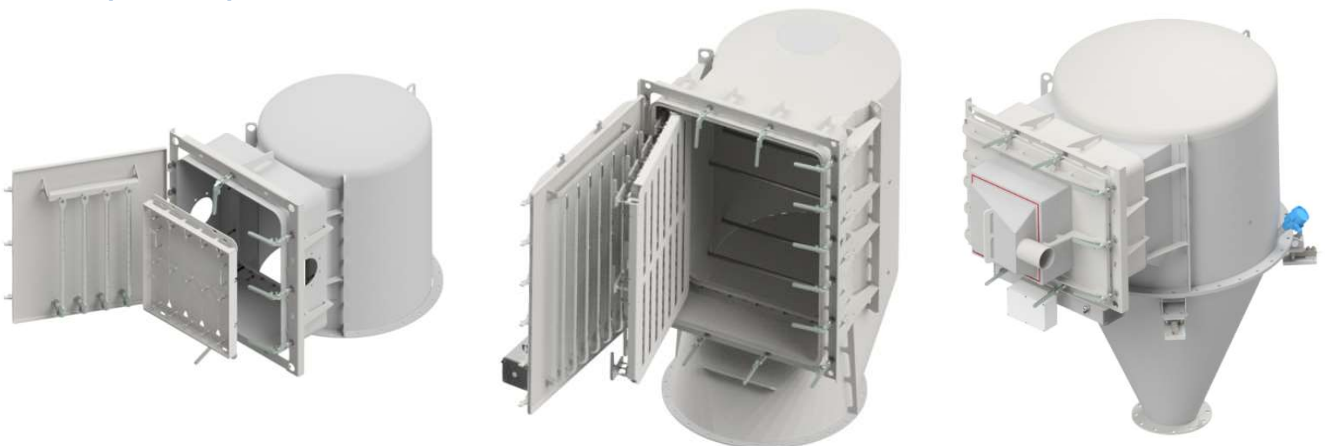
3 Rows of filter elements

Diameter	D800	D900	D1000	D1120	D1250	D1400	D1600	D2000
Filter surface (Bag)	9	15,3	18	14,9	33	37,5	51,3	72
Filter surface (Micropore)	21	32,4	37,8	52,5	72,6	84	100,8	126
Height cylinder AAS R5	1900	1900	2000	2000	2100	2100	2200	2200
Height cylinder AAS R7	2100	2100	2300	2300	2400	2400	2500	2500

Technical data

Compressed air	Connection < 6 bar	Consumption 0,02 - 0,2 m ³ /h/m ²
Controller with or without delta p cleaning	Voltage:	Frequency:
	230 V	AC
	110 V	AC
	24 V	DC/AC

Examples for special executions



bg filtration gmbh

Voithstr. 5
71272 Renningen, Deutschland
Fon +49 7159 8069-0
Fax +49 7159 7933
Info@bg-filtration.de

Kreissparkasse Böblingen
BLZ 603 501 30
Kto 118174
BIC BKKRDE6B
IBAN DE66 6035 0130 0000 118174

HRB 744965
Amtsgericht Stuttgart
Geschäftsführer
Dr. Volker Bauer