

**INFASTAUB**



*Breathe The Difference: Pure Air*

**INFA-MINI-JET**

**INFA-INLINE**

**Patronenfilter / Schlauchfilter**

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# INFA-MINI-JET, AJM Cartridge filter / Bag filter

The INFA-MINI-JET series is a versatile circular filter program. Customer-specific designs are available due to individual constructions. Because of an optional hot gas design, pressure resistance and gas-tightness, the fully automated filters ensure the separation of dust and powder products as well from exhaust air as from process gases.

During the filtration phase the cleaning of the filter cartridges or filter bags is done in periodic intervals by pulses of compressed air (jet-pulse cleaning). The filter sizes cover a volume flow of 20 m³/h to 12,000 m³/h.



**INFA-MINI-JET, AJM vent filter without housing**

- 1 Clean gas chamber
- 2 Compressed air reservoir
- 3 Blowing nozzle
- 4 Clean gas outlet
- 5 Filter cartridge or filter bag with supporting cage
- 6 Control unit

## Range of applications

- For de-dusting of aggregates for mechanical and pneumatic conveying or for processing machines, e. g. day bin, silo, weigher pre-bin, dosing system, sieve, mill, mixer, materials lock, sack discharge, etc.
- For separating of dusts in the industries food, chemistry, pharmacy, plastic, stone/earth, cement/lime/gypsum, energy (combustion power plant), etc.
- De-dusting of special processes, which are characterised by specific requirements concerning e. g. pressure, temperature, material qualities, explosion protection or process gas

## Standard design features

- Basic module consisting of closed filter head, filter elements and pneumatic cleaning unit
- Expandable modular system for flexible adaptation to specific applications
- Housing strength up to +/- 50 mbar g
- System can be equipped either with filter cartridges or filter bags
- Easy filter media change from the clean gas side with quick clamp fastening
- Temperature 80 °C

## Filter sizes

Housing diameter		200 mm		300 mm		500 mm		710 mm		900 mm		1100 mm		1400 mm		1800 mm	
Lengths of filter elements [mm]		P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S
		Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]	Filter surface [m²]
S = 1600	P = 1400	0,4	0,1	1,2	0,3	5	1,1	9	2	15	3,5	24	5,5	37,5	8,5	60	13,5
	S = 1100	0,8	0,2	2,5	0,6	10	2,2	18	4	30	7	48	11	75	17	120	27
S = 1000	P = 550					14	3,2	24	5,6	42	9,6	66,5	15	105	24	168	38
	P = 500																

S = filter bag

P = filter cartridge

## Options

- Modular supplements and accessories, e. g. filter housing, hopper and dust bin, level indicator within the dust bin, butterfly valve, rotary valve, fan, inspection cover, secondary filter stage
- All housing parts, internal parts or components in contact with the product / dust made of stainless steel
- Housing strength up to +/- 0.5 bar<sub>g</sub> for pressure- or vacuum-pneumatic operation
- Design for ATEX zones according to 2014/34/EU
- Pressure-shock resistant design for reduced explosion pressure (e. g. 0.4 bar<sub>g</sub> or 2.0 bar<sub>g</sub>) with pressure relief or for maximum explosion pressure (9 bar<sub>g</sub>)
- Pressure resistant design up to 26 bar<sub>g</sub>
- Electronic control unit for filter cleaning controlled by timing cycle or differential pressure. Also for additional components (fan, rotary valve, etc.)
- Control system and motors for special voltages, e. g. 500 V
- Design for hot gases up to 240 °C
- Filter media available in different qualities, e.g. according to EU 1935/2005 and EU 10/2011 for food industry
- Sound absorbing kits for use in noise-sensitive environments
- Exchange of filters elements on the raw gas side if not enough space in height is available
- Integrated washing equipment
- Electric heating of the filter housing including thermal insulation
- Gas tight design



INFA-MINI-JET, AJM dust collector with hopper and dust collection bin

## Economic de-dusting with the AJM cartridge filter / bag filter

- Delivered in pre-assembled units
- Compact design
- Superior cleaning behaviour also of filter cartridges because of a wide opening angle of the pleated cartridges
- Low operating costs, minimizable by cleaning triggered by differential pressure measurement

On the basis of serial components filter designs are possible, that are individual and tailored for any de-dusting application.



## Special version INFA-INLINE, INF Safety filter

The INFA-INLINE filter INF is a non-cleanable safety filter used to protect compressors and processing machines, e. g. in closed loops. It can be arranged on the over-pressure side or suction side.

When the max. allowed filter pressure drop is reached the filter cartridges will be replaced.

The essential constructive elements base on the proven AJM series. The housing strength is designed for over pressure / low pressure up to +/- 0.5 bar<sub>g</sub>. The filter housing can optionally be made of stainless steel.

### Filter sizes

Housing diameter		300 mm	500 mm	710 mm	900 mm	1100 mm	1400 mm	
Lengths of filter elements [mm]	P	P	P	P	P	P	P	
		Filter surface [m <sup>2</sup> ]	Filter surface [m <sup>2</sup> ]	Filter surface [m <sup>2</sup> ]	Filter surface [m <sup>2</sup> ]	Filter surface [m <sup>2</sup> ]	Filter surface [m <sup>2</sup> ]	
1200 P325/1200	1000 P16/1000	500 P16/500	2	8	14	24	38	60
			4	16	28	48	76	120
			20		80	140	200	

P = Filter cartridge



INFA-INLINE, INF safety filter



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