INFASTAUB

Breathe The Difference: Pure Air

INFA-JETRON
Silo filter / Dust collector

INFA-JETRON, AJB and AJP silo filter

Bulk solids are stored primarily in silos. During the filling dust-laden displaced air is generated which would reach the environment unhindered without filter systems.

For de-dusting of silo fillings the filters are normally mounted on the silo roof. That way the separated dust can fall back directly in the silo again. With the filter types INFA-JETRON AJB and AJP ..4 Infastaub has developed two silo filters which set standards.

Range of applications

- For de-dusting of aggregates of mechanical / pneumatical conveying or processing machines, e.g. daily storage bins, silos, scale vessels, dosing plants, sieves, mills, mixers, air locks, sack tipping units etc.
- For separating dusts in the industries food, chemistry, pharmacy, plastics, rocks and minerals, cement/lime/gypsum, energy (combustion power plant) etc.

Both filter types are constructed according to following concept:

- Generously dimensioned filter housing with optimum relation of filter surface to housing cross-section
- Jet-pulse cleaning (controlled by timing cycle or differential pressure)
- Space-saving compact design, e.g. compressed air reservoir is integrated within the clean gas chamber respectively under the weather cowl
- Top maintenance comfort because of filter media change to the clean gas side and without tools
- No loose parts when changing the filter media by pivoting the components back instead of dismounting them

Both filter types only vary from the exterior:

- The AJB has a round housing on the raw gas side made of stainless steel. On the clean gas side a plastic weather cowl protects the cleaning unit and the filter media against climatic influences.
- The AJP ..4 has a rectangular housing made of coated mild steel and a clean gas chamber with top cover. At the clean gas outlet e.g. a fan can be flanged.
- The mounting flange of the AJP ..4 to the silo is identical with the pocket filter AM 204. In case of an exchange of AJP ..4 and AM 204 the silo flange doesn‘t have to be altered.

INFA-JETRON, AJB silo filter

The INFA-JETRON AJB is a fully automatic silo filter for dust separating of exhaust air from silos or containers filled by pneumatic pressure. The easy handling during assembly and maintenance, the durability and reliability as well as the low price have satisfied our clients since launch of this filter. Infastaub optimises and expands the capability of the AJB by permanent improvements, as e.g. pressure shock resistant design up to 1.0 bar g, which has been proven in explosion testings. A special design for low temperatures down to -40 °C is available as well as a version for food, where all components in contact with the product are approved according to regulation EU 1935/2005 and EU 10/2011.

Standard design features

- Silo-top filter with pneumatic cleaning unit, filter housing made of stainless steel and hinged weather cowl
- Easy exchange of filter media to the clean gas side without tools because of quick clamping device
- Well-balanced ratio between filter surface and dimensioning of housing to support maximum conveyor capacities during de-dusting of pneumatic transport processes
- Space-saving compact design, e.g. compressed air reservoir and control unit are integrated within the weather cowl
- Alternatively filter cartridges or filter bags

Options

- Explosion protected design according to directive 2014/34/EU (ATEX)
- Pressure-shock resistant design for reduced explosion pressure up to 1.0 bar g
- Electronic control unit for filter cleaning controlled by time cycle or differential pressure with lag
- All housing parts and internal parts or components in contact with the product/dust are made of stainless steel
- Design for low temperatures down to - 40 °C
- Filter media available in different qualities (e.g suitable for food according to regulation EU 1935/2005 and EU 10/2011)
- Sound absorbing accessories for use in noise-sensitive environments

INFA-JETRON AJB and AJP: The sturdy

y silo filters for failure-free operation

INFA-JETRON, AJP ..4 silo filter

The INFA-JETRON AJP ..4 silo filter uses the advantages of the AJB and matches them with identical flange size of the shaker filter AM 204, which has been installed on silos for many years. The connecting flanges on the silos don‘t have to be changed if a mechanically cleaned AM 204 is exchanged by a jet-pulse filter. These costs are saved if investing in a new filter.

The filter can be applied for de-dusting of pneumatic or mechanical conveying processes as well as of processing machines, e.g. dosing plants, sieves, mills, mixers, air locks, sack tipping units etc.

Standard design features

- Silo-top filter with pneumatic cleaning unit, filter housing made of mild steel and clean gas chamber with removable top cover
- Easy exchange of filter media to the clean gas side without tools because of quick clamping device
- Well-balanced ratio between filter surface and dimensioning of housing to support maximum conveyor capacities during de-dusting of pneumatic transport processes
- Space-saving compact design, e.g. compressed air reservoir and control unit are integrated within the clean gas chamber
- Housing strength up to +/- 50 mbar g
- Alternatively filter cartridges or filter bags

Options

- Modular supplements and accessories, e.g. lower section with hopper and dust bin, level indicator within the dust bin, butterfly valve, rotary valve, fan, inspection cover
- Explosion protected design according to directive 2014/34/EU (ATEX)
- Electronic control unit for filter cleaning controlled by time cycle or differential pressure and for additional components (fan, rotary valve etc.)
- Control system and motors for special voltages, e.g. 500 V
- All housing parts and internal parts or components in contact with the product/dust are made of stainless steel
- Design for hot gases up to 130 °C
- Filter media available in different qualities (e.g. suitable for food according to regulation EU 1935/2005 and EU 10/2011)
- Sound absorbing accessories for use in noise-sensitive environments
- Exchange of filter media to the raw gas side if not enough space in height is available

INFA-JETRON, AJP ..2 cartridge filter for loader de-dusting

Loading systems for bulk solids are available with integrated filter media as well as without. In the latter case the INFA-JETRON AJP ..2 is the ideal vent filter to carry out loading processes without dust emissions. It is built very sturdily to install it directly above the loading system at the silo. The filter cartridges are arranged in parallel. This reduces depth of the filter housing and makes their access easier in case of maintenance.

With 15 m² and 20 m² filter surface the INFA-JETRON AJP ..2 is generously equipped for this job. The filter cartridges are changed in normal operating height via a big access door to the raw gas side. A fan flanged at the clean gas chamber takes care for the necessary suction pressure in the loading system.

Standard design features

- Rectangular top filter made of mild steel, consisting of closed filter housing, filter cartridges and pneumatic cleaning unit
- Adapter piece from the filter to the connection flange of the loading system
- Space-saving compact design with filter cartridges arranged in parallel, changeable to the raw gas side via a big access door
- Housing strength up to +/- 50 mbar g

Options

- Fan with exhaust hood
- Additional inspection cover in adapter piece
- Winter protection housing for the pneumatic cleaning unit for low temperatures down to -40 °C
- Design for hot gases up to 130 °C
- Explosion protected design according to directive 2014/34/EU (ATEX)
- Electronic control unit for filter cleaning controlled by time cycle or differential pressure and for additional components (fan, rotary valve etc.)
- Control system and motors for special voltages, e.g. 500 V
- Filter media in different qualities
- Sound absorbing accessories for use in noise-sensitive environments

Dust-free loading of bulk solids

INFA-JETRON, IPF de-dusting unit

The dust collector IPF with pneumatic cleaning unit is a cartridge filter for central de-dusting of machines and workplaces. It is designed for dry and little adhesive dusts.

Alternatives out of different basic modules of this series permit a flexible adaption to the specifications of the process technology. The basic unit needs 1 m² floor area only. The filter cartridges are changed to the raw gas side in order to save height. Access to the filter cartridges is provided by a big door on the front side.

Standard design features

- Basic module as stand alone dust collector with hopper, dust bin and pneumatic cleaning unit
- Space-saving compact design, e.g. compressed air reservoir integrated within clean gas chamber
- Change of filter media to the raw gas side in comfortable working height
- Housing strength up to +/- 45 mbar g

Options

- Various accessories (e.g. fan, butterfly valve, rotary valve, level indicator within the dust bin etc.)
- Explosion protected design according to directive 2014/34/EU (ATEX)
- Electronic control unit for filter cleaning controlled by time cycle or differential pressure and for additional components (fan, rotary valve etc.)
- Control system and motors for special voltages, e.g. 500 V
- Design for hot gases up to 130 °C
- Filter media available in different qualities (e.g. suitable for food according to regulation EU 1935/2005 and EU 10/2011)
- Sound absorbing accessories for use in noise-sensitive environments

Central de-dusting of machines and workplaces

Service and maintenance

Infastaub offers professional service - from supply of spare and wear parts to commissioning and maintenance up to modernisation of your filter unit.

In order to maintain operating of your processes and quality of your required de-dusting, correct commissioning of the filter unit is of great importance, especially if it‘s a matter of safety-relevant or explosive endangered processes.

Commissioning covers an extensive function testing as well as a detailed training of your operating staff.

In order to keep your filter unit in long-term operation, we offer the Infastaub maintenance service with periodic inspections and services for your filter unit.

Commissioning

Maintenance, repair, servicing

Spare parts

Filter media

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