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INFA-MICRON MKR

Cassette filter for dedusting of sophisticated processes where toxic dusts or powders, e.g. API (active pharmaceutical ingredient)

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Highlights

The cassette filter system INFA-MICRON MKR is available as cleanable dust collector with one or two filter stages as well as non-cleanable, downstream safety filter. The filter sizes cover air volume ranges of > 500 m³/h.

Big volume flows can be cleaned by parallel arrangement of several units. The 2-stage design guarantees residual dust contents as low as 0.001 mg/m³. Filter cassettes of class H13 are used as filter media for the cleanable 1st stage and H13 to U15 for the non-cleanable 2nd stage.

Standard design features

- Cleanable cassette filter in modular design for flexible adaptations to individual requirements with one or two filter stages
- Change of filter cassettes on the clean gas side
- Filter housing made of mild steel S235JR with hopper and dust discharge system respectively dust collection equipment
- Pneumatic cleaning device with movable nozzle arm (backflush system) for cassettes of the 1st filter stage
- Standard +/- 50 mbar and up to 80 °C, optional 250 mbar and 150 °C
- SPS control unit for filter cleaning triggered by time cycle or differential pressure incl. control of nozzle arm and shut-off valve, surveillance of single operating conditions by proximity switches and indication by plain-text display
- Use of particulate filter cassettes of filter class H13, tested according to DIN EN 1822
- 2nd filter stage (not cleanable) of filter class E10 or higher as safety filter respectively "back up filter", according to DIN EN 1822
- Filter cassettes in compact design with MDF-frame allow easy handling and thermal waste treatment (hazardous-waste incineration)
- Leak-proof test device for every filter cassette
- Minimum shutdown time as well as low operating and maintenance costs because of high reliability and easy handling
- Cleanable filters with pneumatical clamping device respectively manual clamping device for non-cleanable filters
- Inspection window after the first filter stage for function check of the filter
- Gas tight by welded and strengthened filter housing for pressures (as standard the non-cleanable series is screwed)

Options

- "Safe-Change" system for change of dust collecting bin and filter cassettes free of contamination up to OEB 4
- Dust discharge by liner bag or endless bag system
- Dust discharge by pneumatic conveying into central barrel with "Safe-Change" system
- Adaptability for customized dust collecting barrel
- Explosion protected design according to directive 2014/34/EU (ATEX)
- Pressure-shock resistant design for reduced explosion pressure up to 1.0 bar_g without additional, expensive relieve device for dusts of explosion class St3 gases up to group IIB and hybrid mixtures
- Separated single chamber isolation
- Housing and internal parts made of stainless steel

- Filter cassette frame made of mild steel or stainless steel
- Filter cassettes in different qualities and grades up to U15 according to DIN EN 1822
- Filter control as PLC with any special function and interface to master process control system
- Electric heating of filter housing including thermal insulation
- Control system and motors for special voltages, e.g. 500 V
- Connections for DOP / DEHS tests of 1st and 2nd filter stage
- Design „Through the wall“ for fitting into cleanroom walls
- Filter housing for chemical and pharmaceutical application (all weld seams back-welded or welded through in gap-free design)
- Various accessories, e.g.
 - Shut-off valve and dust collecting bin at dust dis-charge
 - Level indicator within the dust bin
 - Fan
 - Contact sensors for locking of dust collecting bin, inspection cover and shut-off valve's blade position
 - Lift cart for safe change of dust bin
 - Mobile service bracket for changing filter cassettes

Downloads

- [Dimension sheets Infa-Micron](#)
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Your contact person

Market place

You find the market place for used filter units [here](#).

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