



Low Dust Draw System - LDD



An environmentally friendly, low-dust, and simple replacement system for filter plates in the clean gas area

With the Low Dust Draw System "LDD System" INFASTAUB has developed an easy-to-use and efficient filter plate replacement system. Its well-thought-out design and intuitive operation allow for quick and hassle-free filter replacement.

Application

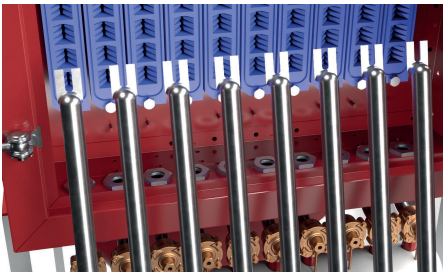
The filter plates are replaced individually and safely from the clean gas side. To do this, a plastic bag is secured to a reusable clamping frame and positioned over the filter plate head on the slotted plate. The filter element is pulled directly into the plastic bag. This protected replacement process keeps the clean gas area virtually dust-free. The filter element and the filter cake that is removed in the process are then completely contained within the plastic bag, which is securely sealed. The new filter element can now be installed. This process is repeated for each filter element until all filter plates have been replaced.

Example: LDD-System on INFA Lamella - JET IJS

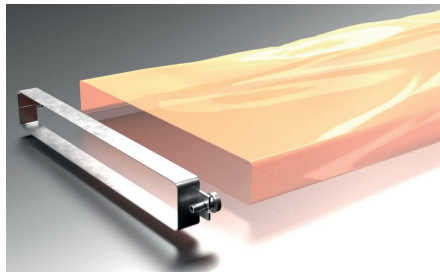
Vorteile

- low-dust and safe filter replacement
- minimal dust release in the clean gas area
- increased safety and health protection for operating personnel
- closed system for low-dust removal
- reusable clamping frame
- quick and easy filter replacement
- clean and environmentally friendly handling
- simple and safe disposal of filter elements

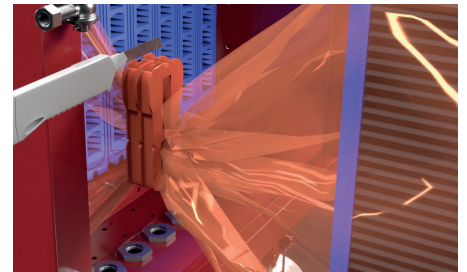
Removing the nozzle assemblies from the retaining rail



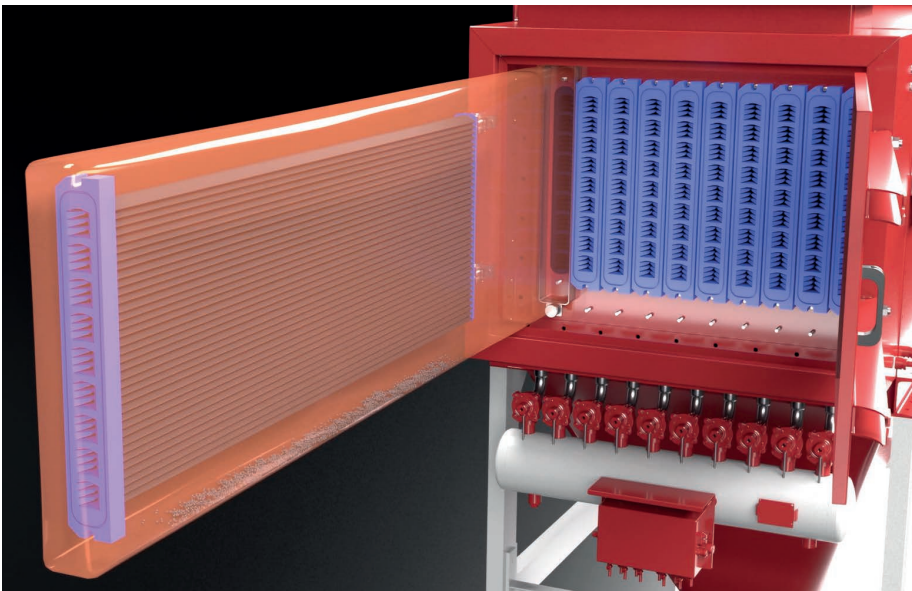
Plastic bag and clamping frame prepare



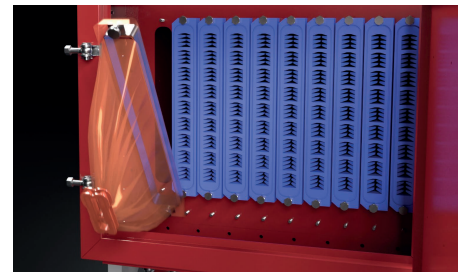
Seal the plastic bag and cut it off



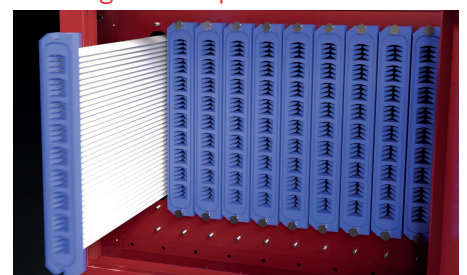
Easy removal of the filter plates



Removing the clamping frame



Inserting the filter plates



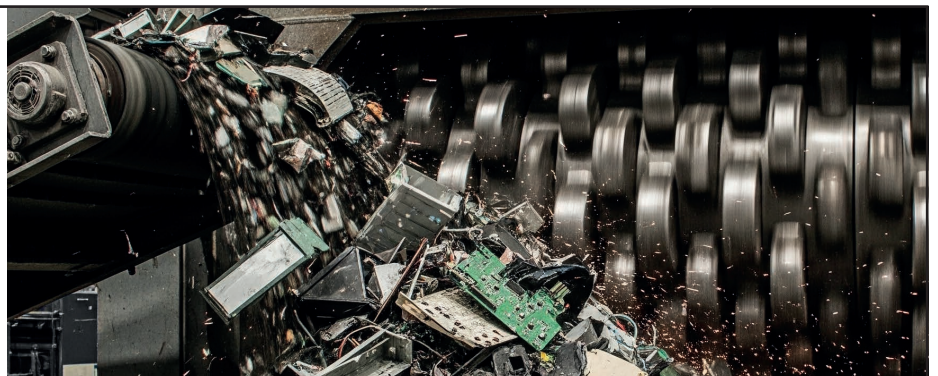
INNOVATIVE, ECONOMICAL INDUSTRIAL DEDUSTING SOLUTIONS



Infastaub specializes in dust collection systems for industrial applications, including the recycling industry. Take advantage of our nearly 60 years of expertise to implement dust collection systems for your specific application that are precisely tailored to your needs. Our mission is to build and provide the best and most cost-effective dust removal solutions for your application and to ensure long-term, trouble-free operation. We are fully committed to this goal and bring a high level of expertise to the task. With us, you get "...leading dust removal solutions." Norbert Kuhn, Dipl. Ing., Managing Director, Infastaub GmbH.

Core competencies

Health protection
ATEX
Raw material recovery
Temperature ranges up to 250 °C
Bag in bag out
Fine dust
High filtration efficiency (HEPA filter)
Maintenance and Documentation
Safe change lite



INNOVATIVE, ECONOMICAL INDUSTRIAL DEDUSTING SOLUTIONS

Bag filter



AJN

Cartridge filter



AJM, AJV,
IPF

Top filter



IPV, AM,
AJB, AJP

Lamella filter



AJL,
AJL Duo

Special solutions



e.g., pressure shock-resistant design

HEPA-Filter



MKR

Bag dump station



Bag dump station

Sintered lamella filter



IJS

Infastaub Project Examples

Dust filter in a recycling process

Industry: Automotive
Dust composition: Graphite/lithium metal oxide, dry, free-flowing, and combustible

Dust filter in a pilot plant

Industry: Battery recycling
Dust composition: Graphite/lithium metal oxide, dry, free-flowing, and combustible

Infastaub Benefits

- 60 years of experience
- ATEX Expertise and Experience
- Pressure-shock-resistant construction
- Wide range of filter media
- Customized solutions



NEW
also with
sintered
cartridge

INFA-Vario-Jet AJV

BRONZE | Top 35%
ecovadis
Sustainability Rating
MAY 2026



Multiple filter series for dedusting in the bulk solids industry
with different filter media

Area of application

The INFA-VARIO-JET AJV is especially suitable for dedusting pneumatic conveyors in the bulk materials industry. All parts in contact with the product are made of stainless steel as standard. Due to its round design, the cartridge filter / bag filter can be used for over/under pressures of up to +/- 0.5 bar. The filter range is also suitable for all applications where a product/dust/air mixture is continuously generated over a longer period of time, i.e. also for dedusting mechanical transport and processing operations. During the filtration phase, the filter cartridges or filter bags are cleaned at regular intervals using compressed air pulses (jet cleaning). The filter sizes cover an air volume range from 20 m³/h to 4,000 m³/h.



Advantages

- Flexible adaptation to the installation situation
- Design in accordance RL 2014/34/EU
- Filter media: filter bag, filter cartridge, sintered cartridge
- Raw and clean gas side filter installation possible
- Residual dust < 1mg/m³
- Optional: H14 filter cassette as secondary stage < 0,001mg/m³
- Internal compressed air tank
- Stainless steel housing

Advantages of the sintered cartridge

- For abrasive dusts suitable
- Usable as dust Ex-zone barrier
- Pure surface filtration
- Very long service life
- No flexing due to rigid filter material
- Washable
- Jet-pulse cleaning
- Fiber-free product recovery

Jet-pulse cleaning of the sintering cartridge



Swivel-mounted compressed air reservoir



Simple filter change



INFA-MICRON MKR

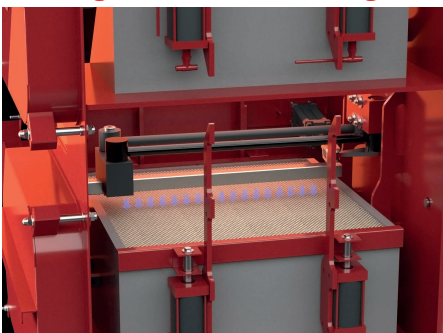


Two-stage cassette filter system for reliable filtration of toxic dust during the production of highly active substances

Scope of application

The INFA-MICRON MKR cassette filter system can be used as a cassette filter in either a single-stage or two-stage design, depending on requirements, and is also available as a downstream safety filter (police filter) without a cleaning unit. The modular filter series covers an air volume range from $> 500 \text{ m}^3/\text{h}$ up to larger volume flows of approx. $20,000 \text{ m}^3/\text{h}$ through the parallel use of several filter modules. The two-stage design ensures residual dust values of up to $0.001 \text{ mg}/\text{m}^3$. Class H13 filter cartridges are used as filter media in the first filter stage with a cleaning unit, and class H13 to U15 filter cartridges are used for the second filter stage without a cleaning unit. Requirements for operational safety and freedom from contamination, as well as the consideration of health and environmental aspects during dust removal, require a special design and manufacture of these filter devices. Risks associated with the filtration of highly potent substances (HPPS), hazardous or toxic dusts, and respirable suspended particles are minimized with these devices.

Automatic cleaning unit for the first filter stage with H13 filter cartridge



Advantage

- High containment up to OEB4
- 2-stage HEPA filtration (1-stage as an option)
- Residual dust values up to $0.001 \text{ mg}/\text{m}^3$
- Air volume ranges $> 500 \text{ m}^3/\text{h}$ to approx. $20,000 \text{ m}^3/\text{h}$
- Standard $\pm 50 \text{ mbar}$ and up to 80°C , optional 250 mbar and up to 150°C
- Filter quality H13 (HEPA) as standard in the first filter stage
- Explosion pressure shock resistant up to 1 bar g at $K 600 \text{ bar m/s}$ (for hybrid mixtures)

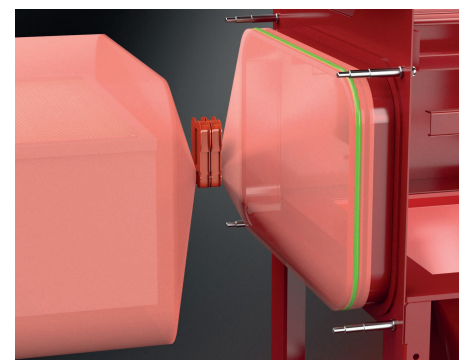
Special features

- Suitable for laboratory use thanks to very low cleaning noise at the perception threshold
- Minimized system height
- Leak testing of each individual filter cartridge possible
- Easy and quick filter cartridge replacement for non-critical dust types and frequent product changes without using the Safe Change technology
- For toxic and critical types of dust the containment system with safe-change technology can also be used
- Suitable for almost all ATEX application areas

Innovative PLC control system with process visualization



Safe Change System for contamination-free removal of toxic dusts



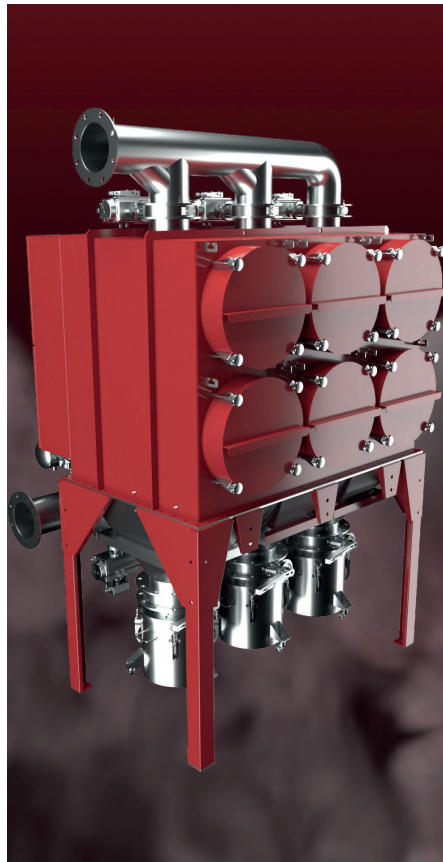
INFA-MICRON MPR



Two-stage cartridge filter system for reliable filtration of toxic dust during the production of highly active substances

Scope of application

The two-stage filter system with high operational reliability for dedusting of demanding manufacturing processes with particulate emissions, e.g., toxic dusts or powders. The INFA-MICRON MPR cartridge filter was developed for dusts that are not only highly hazardous but also difficult to handle in terms of filtration technology. The horizontally installed filter cartridges are cleaned offline using a jet pulse process and additional apex cleaning. This process extends the range of applications to include more adhesive or sticky dusts. The jet pulse method with an intensive cleaning pulse results in intensive cleaning of the filter cartridges. In addition, the filter cartridges can be precoated or operated with a continuous addition of additives. This ensures that the filter function is maintained over the long term with stable pressure loss.



Distributor

- High containment up to OEB4
- Separation efficiency 1st filter stage H13: 99,95 %
- Separation efficiency 2nd filter stage H14: 99,995 %
- Residual dust values up to 0,001 mg/m³
- Raw gas dust loading up to 10 g/m³
- Highly effective jet pulse cleaning system

Special features

Jet pulse cleaning of the filter cartridge

- Optimal cleaning enables long service life of the filter material
- Optional precoating or continuous additive addition for improved cleanability in the case of adhering or sticky dusts

Innovative PLC control system with process visualization



Filter cartridges for dusts that are difficult to handle using filtration technology



Safe Change System for contamination-free removal of toxic dusts



NEU
efficient filter
changing
system

INFA-Jetron IPF



Cartridge filters for dedusting machines and workstations

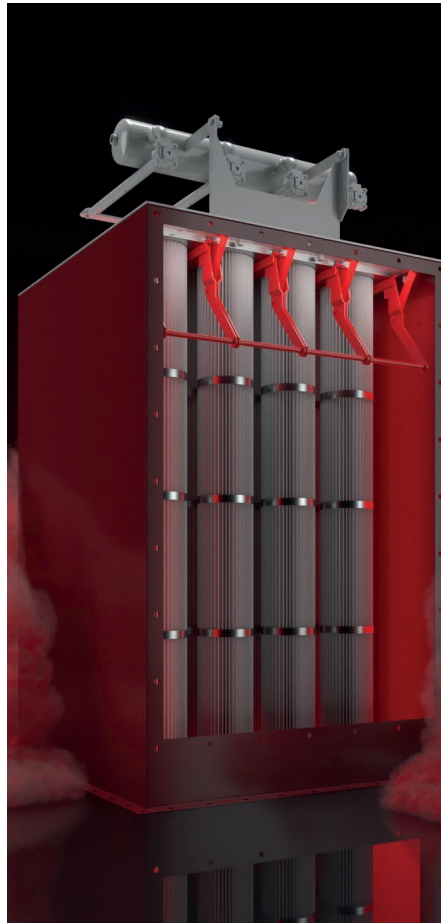
Area of application

Cartridge filters from the Infa-Jetron IPF series are used for centralized dedusting of machines and workplaces. They are particularly suitable for dry and free-flowing dusts. A choice of different basic modules in this system allows flexible adaptation to process engineering requirements. The basic unit only requires around 1 m² of floor space. The series is designed for volume flows of 800 to 8000 m³/h.

Advantages

- Space-saving compact design
- Maximum filter area in the smallest space
- Design in accordance with Directive 2014/34/EU
- Filter media: filter cartridge with quick change
- Residual dust < 1mg/m³
- Quick change optimized
- Optional: H14 filter cassette as secondary stage < 0,001mg/m³
- Internal compressed air tank
- Steel or stainless steel housing

Newly developed filter changing system



New filter change system

- Quick and easy handling
- Secure positioning and fixation
- Little effort required

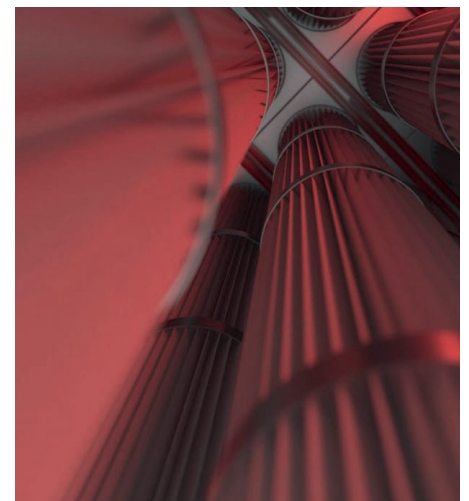
Options

- Additional units, e.g. fan, shut-off damper, rotary valve, level indicator in the dust collector
- Electronic control unit for time-controlled or differential pressure-controlled filter cleaning
- Control unit and motors for special voltages
- Hot gas version up to 160 °C
- Filter media in various qualities (e.g. food-safe in accordance with Regulation EU 1935/2005 and EU 10/2011)
- Noise-reducing additional equipment for operation in noise-sensitive environments

Little effort, exact positioning



Max. filter area in the smallest space



NEW
with
precoating



INFA-Jet IJS



Filter series for dedusting in difficult filtration processes with adhesive, abrasive or combustible dusts.

Area of application

The INFA-JET IJS series is a highly efficient aspiration filter that is particularly, but not exclusively, suitable for more demanding filtration processes with adhesive, abrasive or combustible dusts. Filter units in this series have a compact design with maximum filter surface area in a minimum of space. The series is designed for volume flows from approx. 2,000 to approx. 40,000 m³/h. The filter elements can be replaced quickly and easily via a large, front maintenance door.

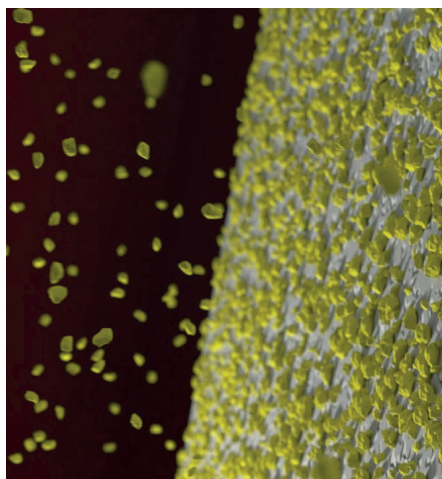
Advantages

- Flexible modular system in modular design
- Pressure shock-resistant design up to 0.4 bar
- Design in accordance with Directive 2014/34/EU
- Filter medium: sinter-plate filter
- Quick filter change system
- Horizontal installation
- Residual dust < 0,1mg/m³
- Housing for the installation of Rupture discs or flameless pressure relief
- Optional: H14 filter cassette as a secondary stage < 0,001mg/m³
- Large maintenance doors
- Housing made of steel or stainless steel
- Dust Ex zone barrier in accordance with VDI 2263

Flexible modular system for continuous dust extraction at machines and workstations.



Even covering of the filter surface with filter aid



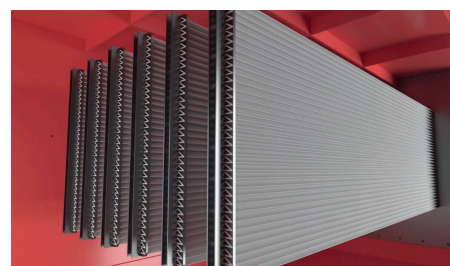
Sinter-plate filter

Plate-shaped rigid filter made of sintered, porous polyethylene with low residual dust values and a long service life. Also available in electrically dissipative (antistatic) quality.

Precoating

Coater systems are used to bind the adhesive components of sticky dusts by adding filter aids. The addition of filter aids can reduce the flammability of flammable dusts. This can protect the filters in demanding filtration processes and thus improve their service life.

Infastaub sinter-plate filter



Improved cleaning behaviour,
longer filter service life > 5 years

