



GEA Air Filter-Systems – Solution for industrial dust extraction

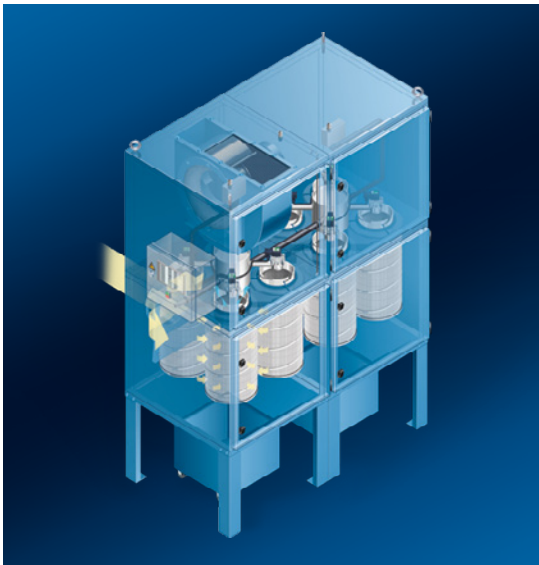
GEA Air Filter

- Range EuroJet – MultiJet Premium – CompactJet – BagJet - MultiClean

Product Brochure

GEA Delbag EuroJet

A cartridge dust collector that lets you take a deep breath – reliably and conveniently



GEA Delbag Cartridge Dust Collector

Application:

Filtration of dry dust and smoke

Use: Metalworking industry

Rated air flow rate: 2,000 ... 24,000 m³/h

Series/type: Delbag EuroJet/EJC

The GEA Delbag Cartridge Dust Collector is a self-cleaning surface filter that operates on the principle of jet-pulse self-cleaning. The casing is a modular design with a small footprint. The filter is offered in various models and in various materials, and with a choice of different filter materials. As a result, the deduster selected can be optimally assembled according to the respective operation situations and the area of application.

- Filter-exchange technology for filter cartridges
- Integrated compressed-air tank in the upper section of the unit
- One 1-inch solenoid valve per filter cartridge, which assures effective cleaning
- The latest in servo-technology for the solenoid valves
- Variable interval- and pulse-cleaning times
- A choice of powerful centrifugal fans
- Large doors – with direct access to all components
- Hidden door gasket that can be quickly exchanged

The filter cartridges, with their star-shaped pleats, feature the GEA Delbag MultiPuls exchange technique. The central benefit of this innovation is – unlike conventional filter technology – that the entire filter cartridge with all its metal parts does not have to be disposed. Only the filter bellows must be exchanged.

Short, intensive blasts of compressed air clean the filter cartridges. This process is made possible by highly advanced control technology implemented for the solenoid valves. A selection of filter-control units is available.

Accessories are available here: built-on fans, cellular wheel sluices, and many others.

Areas of application: effective and reliable filtration and separation of dust and smoke, especially in the metalworking industry, in processes involving welding, grinding, and metal casting.

GEA Delbag MultiJet Premium

So that you can handle dust – quickly and economically



GEA Delbag Hose Cartridge Dust Collector

Application: Filtration of dry dust, from coarse to sub-micron particles


Use: Industrial, pharmaceutical and chemical industry

Rated air flow rate: 2,000 ... 50,000 m³/h

Series/type: Delbag MultiJet Premium/TJS

The GEA Delbag Hose Cartridge Dust Collector is a self-cleaning surface filter that operates on the principle of jet-pulse self-cleaning.

The casing is a modular design with a small footprint. The filter is available in various models and materials, in versions conforming to ATEX, with pressure relief, as well as with various filter materials. In this way, the cartridge-type dust collector can be optimally designed in accordance with the operational situation prevailing, and according to field of application.

- Space-saving design with modular configuration
- Fast, easy exchange of filters on the dust-laden air side
- Compact hose-type cartridges with 13 m² of filter surface; weight = 10,5 kg
- Variable interval- and pulse-cleaning times
- Integrated compressed-air storage
- The latest in servo-technology for the diaphragm valve
- Options:
 - this model can be equipped in accordance with ATEX regulations 
 - Configuration with exchange technology for protective bags
 - Downstream high-safety filter

This model uses compact hose cartridge-type cassettes, each with a filter surface of 13 m².

Short, intensive blasts of compressed air clean the bag cartridges. This process is made possible by highly advanced control technology implemented for the diaphragm valves. A selection of filter-control units is available.

Accessories are available here: built-on fans, cellular wheel sluices, conveyor screws and many others.


Areas of application: in industrial, chemical, pharmaceutical, and food industries: e.g., silo and bin exhaust ventilation, materials conveying, minimum-quantity lubrication, dry processing, mechanical processing, and general process engineering.

This filter model is effective in the separation of virtually all types of dry dust.

GEA Deichmann CompactJet

Clean-air dust content down to 0.1 mg/Nm³



- Highly efficient Deicolon filter elements
- Residual dust contents < 1 mg/Nm³
- Long service time
- Very compact construction
- Large air volume flow rate
- Short filter-exchange time
- Low differential pressure
- Full automated pulse-jet cleaning
- Operating range up to 80 °C, special design up to 200 °C
- Ideal for downstream activated or absolute filter
- Option: configuration conforming to ATEX 

GEA Deichmann CompactJet Filter

Application: Filtration of dry dust, from coarse to sub-micron particles

Use: Industrial, pharmaceutical and chemical industries, thermal processes, metallurgy

Rated air flow rate: 2,000 ... 50,000 m³/h

Series/type: Deichmann CompactJet/KJF

GEA Deichmann CompactJet filters operate on the basis of a modular dust-filter system. These jet filters can be installed vertically or horizontally, and have an air capacity of 2,000 to 50,000 m³/h. These Compact Jet Filters are ideally suited for industrial areas with difficult dust problems. They achieve a clean-air dust content down to 0.1 mg/Nm³.

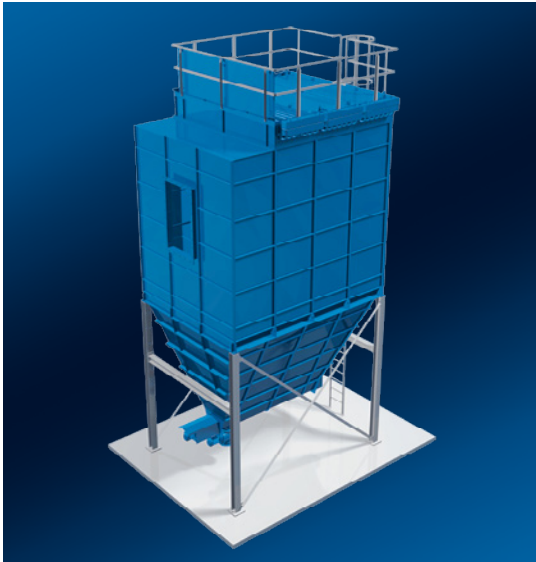
CompactJet filters are dust-collecting systems that highly efficiently implement high air-extraction capacities using a very small footprint. They operate with Deicolon filter elements. Applications of these


multi-functional compact systems range from dust filtration of industrial workplaces to air purification of cleaning and grinding booths, and include metal-spraying facilities. As a product extractor, the system has proven to be highly efficient in the chemical, pharmaceutical, and food and beverage industries – as well as in activities involving pigment production, metallurgical processes, and many similar areas.

GEA Deichmann CompactJet filters are designed for new plants as well as for the upgrading of existing facilities. Space requirements are about half those involved with conventional filter systems. The ready-to-install Deicolon filter elements shorten the filter-exchange time of conventional solutions by almost two-thirds. The design of GEA Air Treatment CompactJet filters allows the exchange of individual spiral-filter tubes of the Deicolon filter elements: which minimizes the costs of spare parts.

GEA Deichmann BagJet

Dust removal with jet-pulse cleaning for large volumes as well



- 10 ... 1,850 m² filter area in one casing
- Modular configuration
- Reinforced casing model
- Large service hatches with reduced weight on top of the filter casing
- Upward installation and removal of the filter hoses and supporting baskets
- Dividable supporting basket for use in limited space
- Effective pulse-jet cleaning through integrated 1 1/2" diaphragm valves
- Filter hoses secured by snap rings
- Trouble-free installation of blow pipe using easy plug-in connectors
- Option: configuration conforming to ATEX 

GEA Deichmann BagJet Filter

Application: Filtration of dry dust, from coarse to sub-micron particles

Use: Industrial, pharmaceutical, chemical and wood working industry, combustion processes, stones and earth

Rated air flow rate: 20,000 ... 500,000 m³/h

Series/type: Deichmann BagJet/SJV - SJR

GEA Deichmann BagJet Filters are dust-extraction systems that are completely automatically cleaned by compressed-air jet pulses. The capacity for dust extraction is typically between 20,000 to 500,000 m³/h. These filters are designed for application in all industrial areas with serious dust burdens.

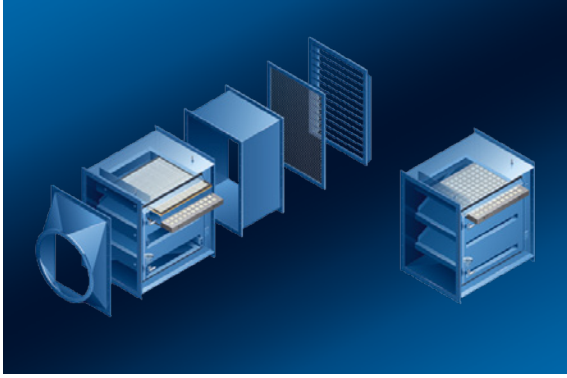
In close collaboration with leading manufacturers of filter media, GEA Air Treatment applies the filter material that is optimal for the respective applications. As a result, use is primarily of needle felt made of synthetic fibers such as polyester, polypropylene, polyacrylonitrile, and polyphenylen-sulfide. At

higher gas temperatures, the filter hoses are made of Teflon or aramids. In temperature ranges above 260°C, the use of woven fabric hoses made of stainless steel is effective. Gaseous pollutants are absorbed from the exhaust gas with the aid of additives, and are separated by GEA Deichmann BagJet filters.

Filter hoses with diameters of 120 or 150 mm are installed in chambers with modular configuration. The dust that has been removed from the filters by pulse-jet cleaning is collected in hoppers or funnels, where it is removed. Large service hatches with weight relief at the filter cover simplify the access to the clean-air zone. Installation and removal of the filter hoses and supporting baskets takes place on the clean-air side. Snap rings in the hose support plate secure and seal the filter hoses. The pulse-jet nozzles, which are mounted above the filter hoses, are easily installed with plug-in connectors with O-ring seals.

GEA Delbag MultiClean

Duct air filter for a universal application



To satisfy many and various requirements, according to specific application, GEA Delbag has designed and offers the duct air filter as two compact model types: KLG and KLH

Casing: in normal steel with protective coatings, or in stainless steel as air- and oil-tight welded structures. Depending on the application, the unit is designed for operating pressure +1,000 Pa / -2,000 Pa, as heavy-duty model: +20,000 Pa / -50,000 Pa and as pressure-shock resistant type with a P_{red} up to 1.0 bar.

GEA Delbag Duct Air Filter

Application: Filtration of coarse, fine and suspended particulate matter or oil and emulsion mists

Use: Industrial, pharmaceutical and chemical industry as process air and redundant final filter

Rated air flow rate: 1,000 ... 49,000 m³/h

Series/type: Delbag MultiClean/KLG - KLH

The MultiClean KLG can be fitted with filters up to class F5, with a maximum of 3 stages. Up to 4 different filter stages can be used for MultiClean KLH, extending to filter class H13. A large variety of coarse dust filters, aerosol separators, metal and fine dust and HEPA filters is available. Connections and fittings, weatherproof louvers, regulation systems and other accessories can be selected.

GEA Delbag MultiSafe

Safety in the first place



MultiSafe filter modules consist of steel: powder-coated or stainless steel. They are welded so as to be gas-tight and are tested by means of the Nekal test procedure, in accordance with DIN EN 1886. The safety filter features an operationally reliable clamping device that needs no maintenance and a contamination-free filter exchange using Bag-in/Bag-out system. Airtight fit of the filter can be checked continuously during operation. The spectrum of filter grades available for selection extends from F5

GEA Delbag Safety Air Filter

Application: Filtration of viruses, bacteria, radioactive and toxic materials

Use: Pharmaceutical, chemical, nuclear, health care industry, laboratories, process air and redundant final filter

Rated air flow rate: 1,000 ... 32,000 m³/h

Series/type: Delbag MultiSafe/EK

(in accordance with DIN EN 779) to U15 (as per DIN EN 1822).

A high-safety redundant final filter can be directly integrated with the GEA Delbag MultiJet *Premium*.

Various activated carbon filters can also be used here, with various types of activated carbon. The number of filter stages, as well as the filter installed, can in all cases be selected such that they optimally match the respective application. A large selection of accessories is available.

Quality and sustainability is our motto



GEA offers the entire range of the commonly commercially available filter media, materials and designs, including spare filters. In addition, antistatic,

Spare filter material dry dust extraction filter categories: L, M

Filter cartridges
Hose-type filters
Flat hose-type filters
Hose cartridge dedusters
Deicolon filter cartridges
Compact filter elements

Configurations can be selected for horizontal and vertical installation

hydrophobic, temperature-resistant, flame retardant and other special media available for special applications.

GEA PulsaTronic Control System

So that regulation is performed smoothly



The pulse-filter control features various possibilities. The operator uses the regulation system to monitor and adjust differential pressure and the relevant

Pulse-filter regulation

Application: Filter regulation for Jet Filter with / without fan, including air flow and monitoring of redundant final filter

Use: Cartridge, cassette and hose filters

Measuring range: 0 ... 5,000 Pa

Series/type: PulsaTronic

switching points. In addition, the operator can optionally activate the dust-removal unit and record operating hours.



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

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