



BAG & CARTRIDGE DUST COLLECTORS / BKDF / BKDC

DEDUSTING



Industrial dedusting systems based on extraction, filtration and air purification improve the air quality in production, warehouse, workshop and office rooms, protecting employees against the harmful effects of dust on health and increasing work efficiency and durability of other existing elements of the industrial installation. Dust removal systems are tailored to the individual needs of our clients, depending on the type and amount of contamination, the size and nature of the facility, as well as legal requirements and applicable quality standards.

Dust removal devices guarantee an appropriate level of dust emissions contained in exhaust gases from various technological processes. Dust and particles are generated in many different ways. They occur in exhaust gases from power boilers fired with hard coal, brown coal or biomass. In metallurgy, air dedusting systems are used to remove dust generated, among others in the processes of grinding, shot-blasting, polishing, pouring or transporting materials.

Industrial dust collectors are also used in all industries where the problem of dust is related to the type of raw material produced, e.g. in cement and sugar factories, mines, aggregate processing plants, food, textile, wood, energy, chemical industries, etc. Properly selected dust removal devices, in addition to pro-ecological aspects, influence the proper operation of production lines and thus increase the effectiveness and efficiency of technological processes. Each production plant has its own specific requirements. We try to meet your requirements, but we need to know what type of contamination we want to remove.



BKDF



CONSTRUCTION MATERIALS AND FINISHING OPTIONS:



CARBON
STEEL



STAINLESS
STEEL



ACID-RESISTANT
STEEL



HARDOX
STEEL



PAINTING
(RAL COLORS)



ADDITIONAL
SEALINGS



SURFACE
INSULATION



ATEX
VERSIONS



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Dust extraction filters are devices that can be designed in many variants. Depending on the source emitting pollution and the type and quantity of suspended particles, we use:

DUE TO THE CONSTRUCTION:

- monoblock and modular dust collectors
- dust collectors intended for use inside and outside industrial buildings
- bunker-type dust collectors with a hopper
- dust collectors in which filter inserts are placed horizontally and vertically

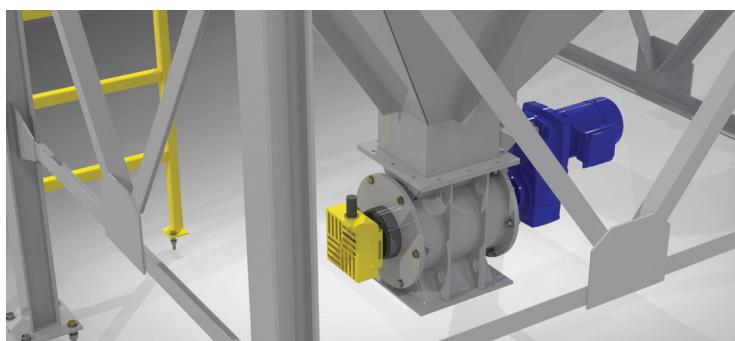
DUE TO THE TYPE OF FILTRATION:

- bag filter dust collectors
- dust collectors with cartridge filters

DUE TO THE WORK ENVIRONMENT:

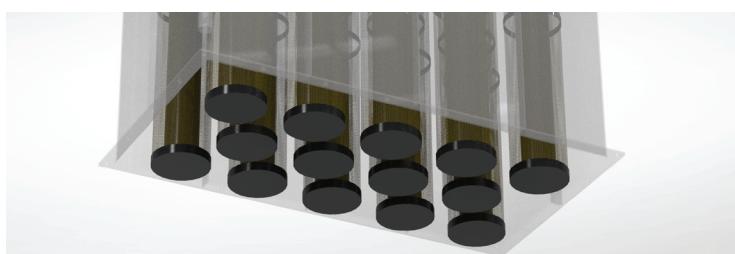
- dust collectors designed to operate at high temperatures
- versions of dust collectors intended for operation in ATEX explosion hazard zones
- versions of dust collectors with insulated outer jacket and insulation

The range of industrial dust collectors and their operating variants is very wide, which is why purchasing them sometimes becomes a real challenge for the investor. Our engineering team and many years of experience in the design and production of industrial dust collectors make us a leader on the Polish and European market. Support from specialists helps in selecting appropriate devices and solutions.



PURPOSES OF USING INDUSTRIAL DUST COLLECTORS:

- ecological goal (significant reduction of dust, improvement of relations with neighboring towns for which dust is very burdensome)
- obtaining a new product - dry dust with a fraction of 0 - 0.2 mm
- separation of the sand fraction from dust 0 - 2.0 mm





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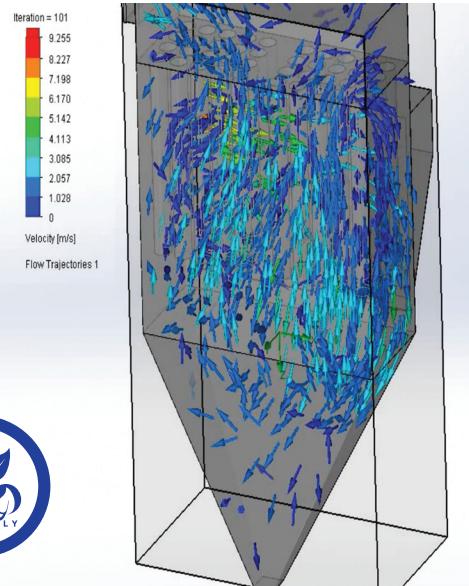
DEDUSTING



Support from specialists helps in selecting appropriate devices and solutions. We provide comprehensive support at every stage of the investment: from the implementation of the conceptual design, obtaining appropriate permits, implementation of the detailed design, production, delivery, commissioning, performance tests and service support.

In gas dedusting technology, we use a number of physical phenomena that allow the separation of solid particles from a stream of dusty air. From the simplest principles, using gas mechanics, to advanced ones, using filtration on nonwoven filter fabrics. We use digital animations in DEM and CFD technology to develop the most optimal and efficient structures.

The devices are designed in a way that enables the implementation of the investment in the conditions existing at the customer's site, we mean the amount of space and the lack of collisions with existing elements of the industrial installation.



OPERATING PARAMETERS OF BKDF INDUSTRIAL DUST COLLECTORS MANUFACTURED BY BIKO-SERWIS:

- capacity: up to 500 000 m³/h
- maximum operating vacuum pressure: up to 6 kPa
- fan power: up to 110 kW
- regeneration system: compressed air
- length of filter inserts: up to 10 meters for connected filter cages



By choosing BIKO-SERWIS, you gain the support of specialists who, thanks to many years of experience, will help you choose the right devices. The devices that you will find in our offer are dust removal systems that are characterized not only by high efficiency and speed of operation, but also by reliability. Low failure rate of dust collectors guarantees continuity of production and the best possible security.

During the filtration process, the separated, purified air is released into the atmosphere, and the captured dust is managed by the investor. Purified air improves life of residents of areas adjacent to an industrial installation, it also has a huge value for the company due to its ecology and climate neutrality.



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