



**CLEAN AIR
SOLUTIONS**
🇩🇰 SINCE 1999

CYCLONE FILTER

Filcon Filtration ApS
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A COST-EFFECTIVE SOLUTION

The Filcon Filtration cyclone filter features a sleek, cylindrical shape complemented by an effective pulse-jet cleaning mechanism. Its construction strategically positions the filter housing and inlet area to facilitate the efficient movement and separation of both coarse and fine particulates into the system.

EFFICIENCY

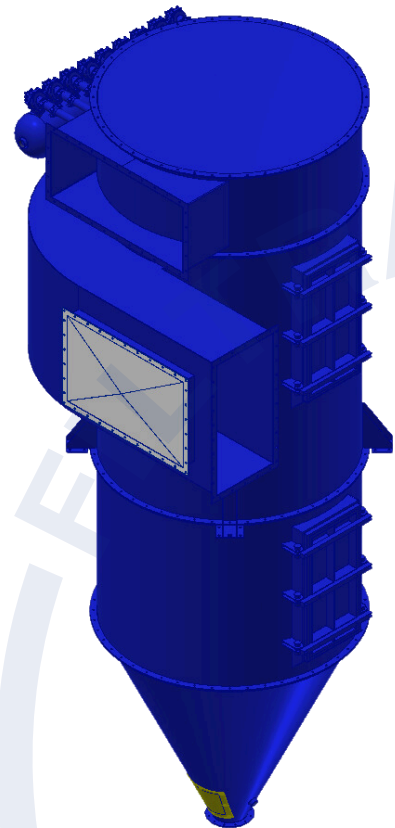
The pulse jet cleaning technology ensures the bags are cleaned systematically, row by row, without interrupting the filtration process. This means the filter remains operational and efficient even during the cleaning phases, offering continuous dust capture.

SAVINGS

Designed for low maintenance, the Filcon Filtration cyclone filter minimizes operational downtime, promoting uninterrupted plant activities. Its advanced filter control system is engineered to sustain a low pressure drop, translating into significant savings on compressed air and energy costs.

FLEXIBILITY

Capable of handling a diverse range of dust types, whether fine, abrasive, or explosive, the filter provides unparalleled versatility in dust separation. Additionally, its design simplifies the process of bag servicing, making it easier to maintain and extend the lifespan of the bags.



BENEFITS

SPECIAL FEATURES

- Capacity: 500 – 500.000+ m³/h
- Filter area: 3.1 – 2.500+ m²
- Standard vacuum: 5%
- Pressure shock tolerance: Up to 2.5 bar
- Compatible with dry and sticky materials
- Bag removal: Accessible from both air sides
- ATEX directive compliant
- Indoor installation with explosion vent (EN14491 or VDI 3673 standards)

CONSTRUCTION FORMS

Filter type:

- RA = Conical bottom
- RB = Scraper bottom
- RC = Open bottom
- RD = Total separator

Top:

- TOP 1 (Standard)
- TOP 3 (Penthouse)

*See illustration on next page.

APPLICATIONS

- Grain and feed industry
- Chemical industry
- Cement industry
- Food industry
- Brewery
- Paper industry
- Plastics industry
- Metal industry
- Fish feed industry
- Pet-food industry
- Recycling industry
- Wood industry
- Mineral industry
- Fertiliser industry

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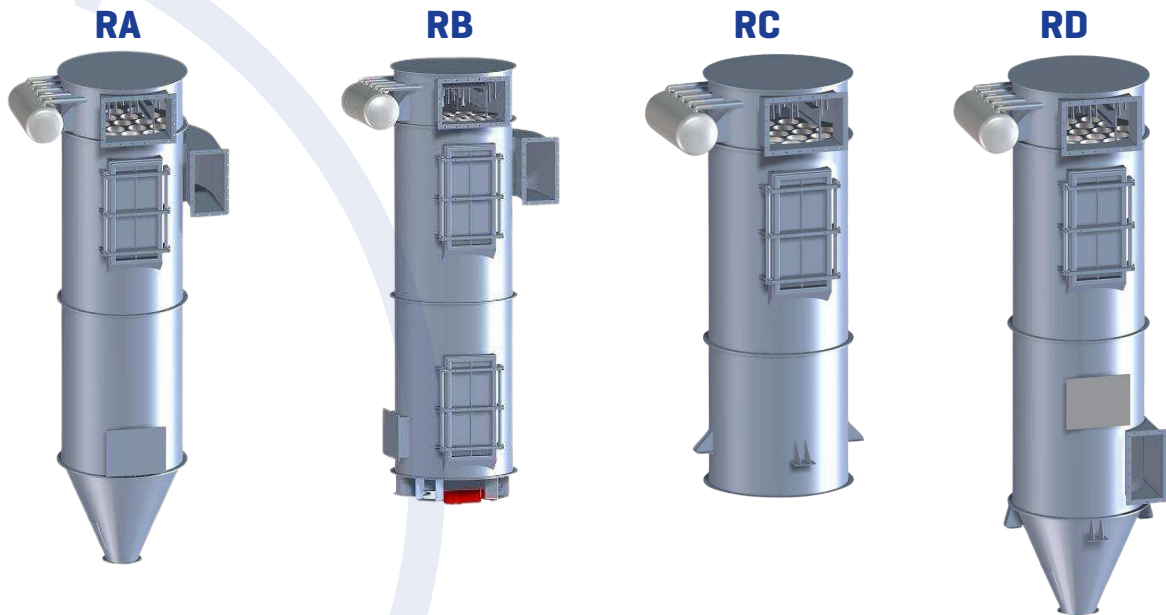
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CONSTRUCTION FORM

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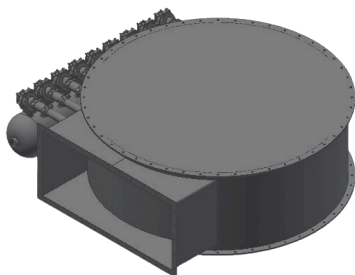
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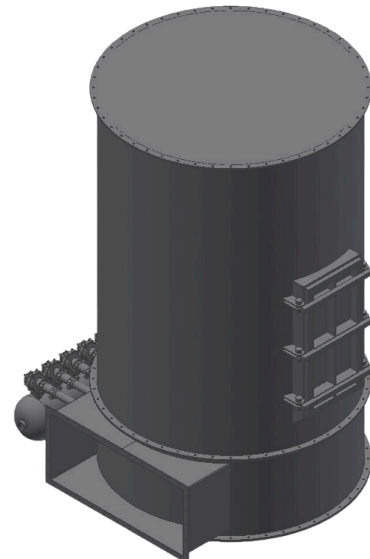
Top:

- TOP 1 (Standard)
- TOP 3 (Penthouse)

TOP 1



TOP 3



INTAKE-PIT FILTER

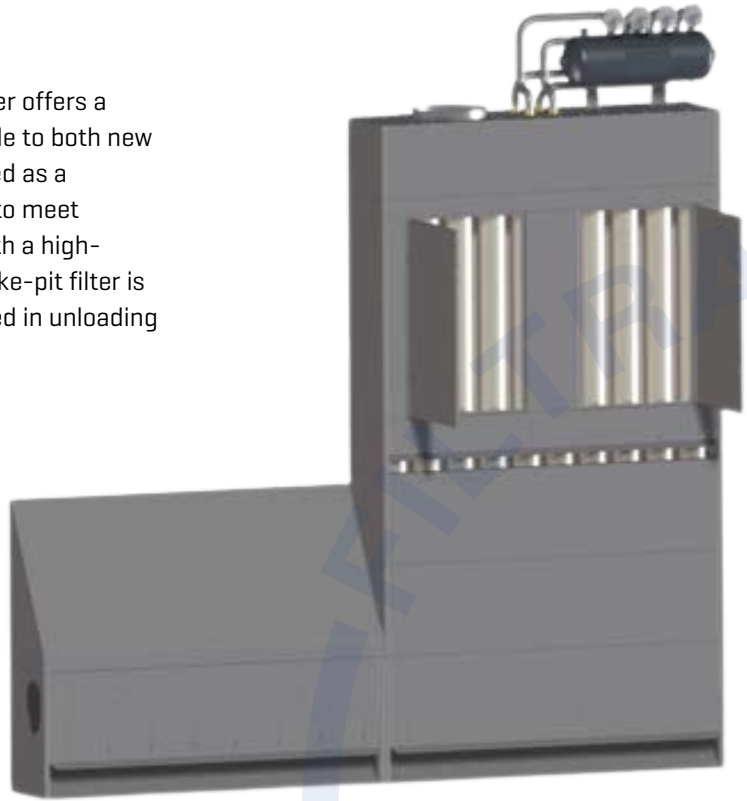
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OVERVIEW

The Filcon Filtration Intake-pit aspiration filter offers a versatile, modular filtration solution adaptable to both new and existing intake aspiration pits. Engineered as a customizable wall system, it can be tailored to meet specific requirements for various setups. With a high-capacity air volume, the Filcon Filtration Intake-pit filter is exceptionally effective for crane hoppers used in unloading ships, trucks, or wagons.



BENEFITS

SAVINGS

- As the fan can be fitted directly next to the filter, energy consumption can be minimized.
- With the Filcon Filtration Intake-pit filter simple and inexpensive mounting process, you don't waste any resources during the initial installation process.

FLEXIBILITY

- Its versatility allows you to choose the option best suited to your needs
- It can be adapted to fit any size of intake pit.

SPECIAL FEATURES

- Flexible modular design
- Easy to install
- Automated cleaning system
- No dust transport
- Low pressure drop
- No rotary valves needed

APPLICATIONS

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- Wood industry
- Mineral industry
- Fertiliser industry

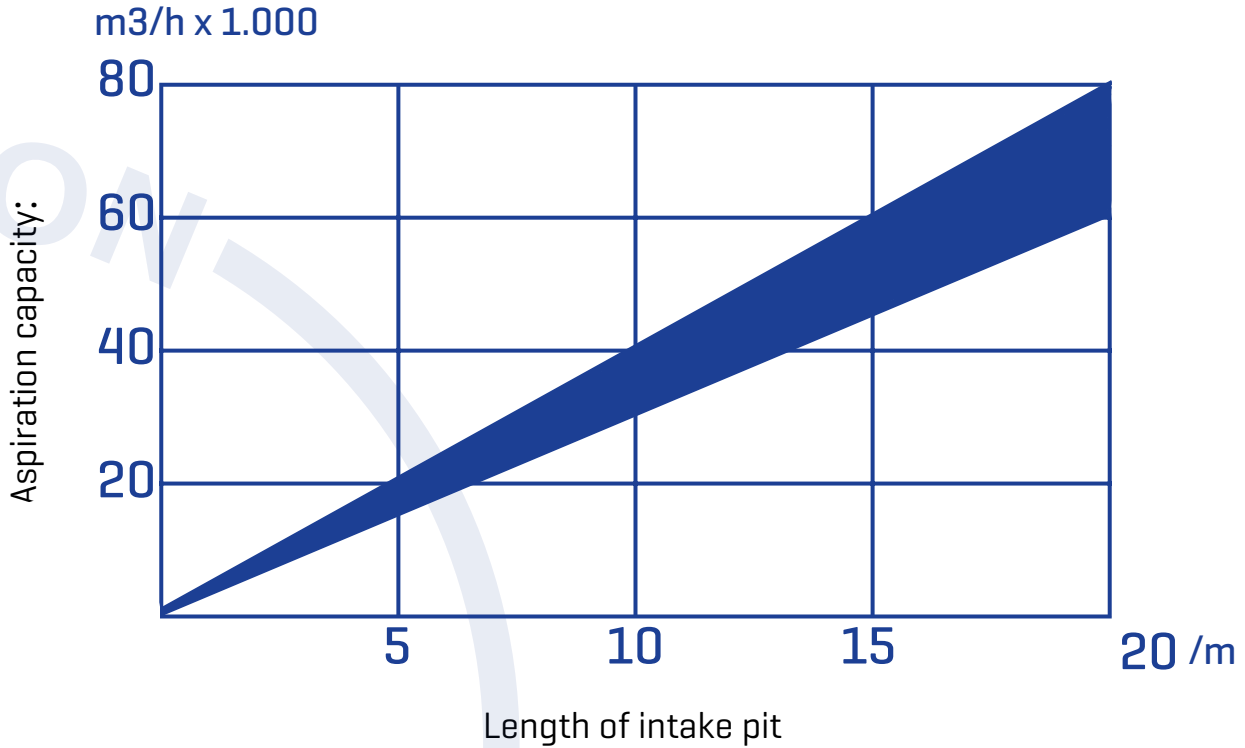
INTAKE-PIT FILTER

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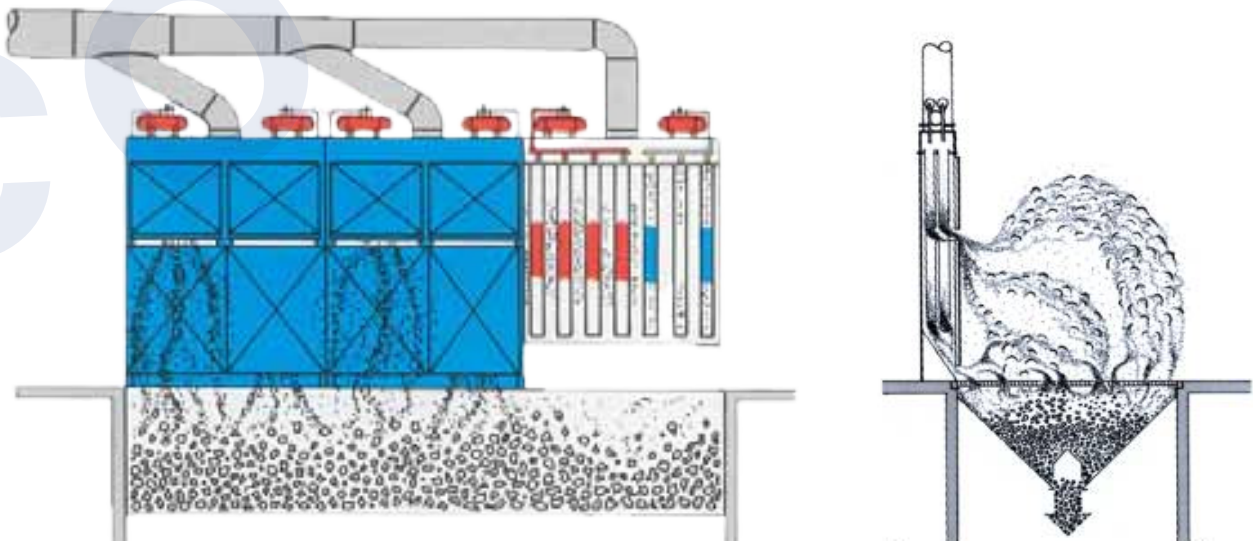
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DIMENSIONING OF AIRFLOW



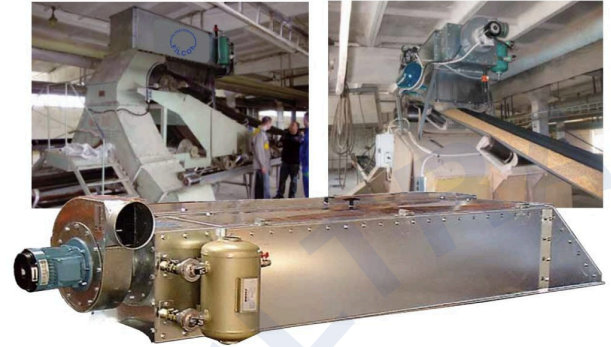
FLEXIBLE MODULAR SYSTEM



The Filcon Filtration miniature bag filter offers a practical, streamlined alternative to traditional central extraction systems. Its straightforward, functional design makes it easy to install directly on conveyors and bucket elevators.

SAVINGS

- The Filcon Filtration filter with an integrated fan operates only when the machine is running, resulting in energy savings and extended filter bag life.
- The Filcon Filtration filter is also offered without an integrated fan, allowing it to be connected to a larger central fan for even greater energy efficiency.
- As a budget-friendly, low-maintenance option, the Filcon Filtration filter provides significant savings through a reduced total cost of ownership.



BENEFITS

FLEXIBILITY

- The Filcon Filtration filter works well as either a stand-alone solution or an extension to central extraction systems, allowing you to choose the setup that best fits your needs.
- New machines requiring dust extraction are equipped with individual Filcon Filtration filters, ensuring seamless operation without disrupting existing extraction systems.

SPECIAL FEATURES

Ease of use

- Automatic pulse-jet cleaning
- Easy change of filter bags through a large inspection door
- Can be connected to a large central fan
- Simplified control of the aspiration system

Effective design

- Built-in fan to automatically adjust the quantity of aspiration air depending on the extent of the leak to regulate automatic cleaning

- Large suction intake with low admission speed to minimise turbulence and circulation of dust
- An electric control unit with adjustable pulse and pause time

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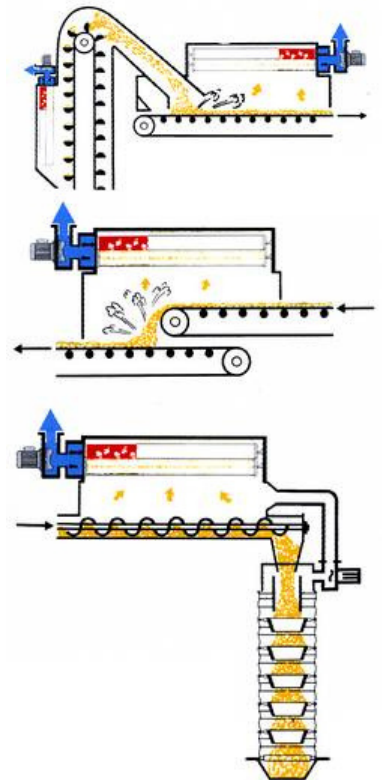
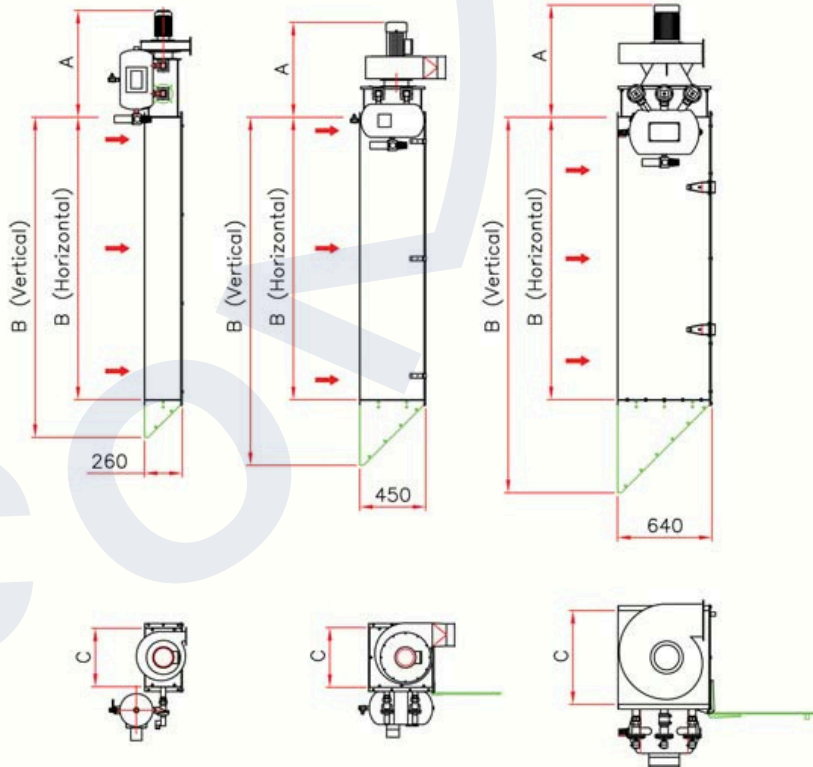
SPOT FILTERS

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Filcon Filtration is available in different configurations



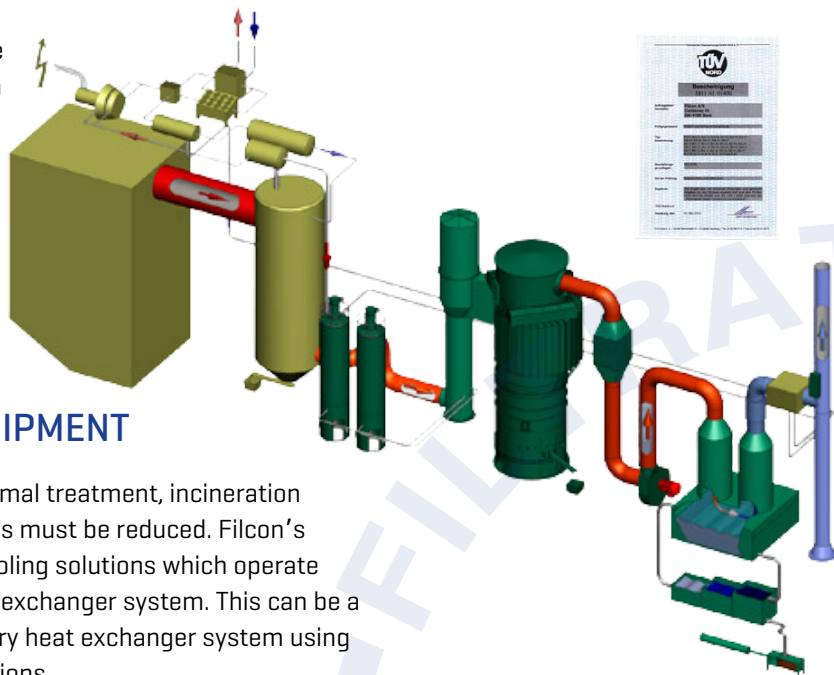
HOT FLUE GAS CLEANING

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1. Silo for Activated carbon and Bicarbonate/lime
2. Reactor inclusive quench and injection system
3. Baghouse filter system
4. HEPA filter
5. Wet scrubber
6. Continuous emission measuring equipment



FLUE GAS HEAT EXCHANGE EQUIPMENT

In order to clean hot flue gas generated by thermal treatment, incineration and gasification, the temperature of the flue gas must be reduced. Filcon's engineering team can recommend different cooling solutions which operate by allowing the flue gas to pass through a heat exchanger system. This can be a wet solution using quenching equipment or a dry heat exchanger system using air to water (boiler) or air to air exchanger solutions.

Filcon will recommend the most optimal design based upon the actual project, product and emission requirements as well as customer preferences. And the complete turnkey solution will be implemented when delivering the equipment from Filcon.

HOT FLUE GAS CLEANING EQUIPMENT

To help keep our environment clean, Filcon specializes in the treatment of hot flue gas. Hot flue gas can be generated from biomass, gasification, and/or incinerator plants, and might contain high concentrations of chemical particles which are harmful for humans and the environment.

Filcon flue gas treatment solutions are always customized to meet customer requirements and designed to deal with the actual flue gas composition of pollutants at each specific plant.

Based on each individual case, our engineering team calculates and designs the relevant equipment. The air cleaning solution will either be based on a baghouse filter or it will be a complete clean air system consisting of a baghouse, HEPA, and wet scrubber solution.

Filter plant solutions shall meet today's emission standards which require injection systems for sorbents such as activated carbon, lime and/or bicarbonate. Our engineering team will determine the best solution for each specific situation.

OVERVIEW



HOT FLUE GAS CLEANING

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OVERVIEW

Filcon's engineering team also has many years of experience in cleaning the flue gas and hazardous contaminated air generated by waste treatment plants and nuclear power plants. We have excellent references from many plants worldwide.

In addition to designing hardware solutions, our engineering team also designs and commissions the software programs to ensure that operations fulfill the emission requirements.

FEATURES

Special features of Filcon Filtration hot flue gas cleaning equipment include among others:

- 270° cyclone inlet - to ensure optimal flow in the filter
- Good insulation - to neutralize cold spots and corrosion
- Flat bottom, no hopper - to ensure the absolute optimal fly ash removal
- Intelligent cleaning system - software controlled bag cleaning based on actual process conditions
- Round support structure - self supporting robust construction
- Controlled dosing of lime/PAC - based on the actual chemical composition of the flue gas
- Low maintenance costs - due to few movable parts and optimal flow conditions
- Low chemical consumptions - due to the computer-controlled process dosing system

Examples of special industrial solutions:

Diesel Engine Power Plant - exhaust cleaning equipment

Based on our longstanding operation of a pilot plant, the Filcon engineering team has developed the first filter equipment in the world which is capable of cleaning the exhaust gas generated from diesel engines in power plants. The process removes for example sulfur, dust and dioxin from the exhaust gas.

Diesel Engine Power Plant - exhaust cleaning equipment

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Guaranteeing high filter performance throughout its entire lifespan.

Service solutions

Round-the-clock global service, that keeps your operations running smoothly with minimum downtime

Through our service and maintenance support, we offer:

- Supervision for installation and overhaul.
- Regular service inspections and preventive maintenance services.
- On-site troubleshooting.
- 24-hour technical service support via our hotline.
- Commissioning services.
- Support and maintenance contracts.

Original spare parts

an assurance of quality parts that fit your Filcon Filtration solution and serve you for years

When you choose original Filcon Filtration spare parts, you get:

- A wide range of spare parts that are always in stock
- Products that are easy to use and of high quality.
- Products that are easy to use and of high quality.
- Solutions tailored to meet your needs.
- Detailed and easy-to-use user manuals with comprehensive spare parts documentation.

Filter bag and filter cage technology

that delivers a perfect fit between filter bags and filter cages while offering optimal cleaning

At Filcon Filtration, we work with the best technology in all our offerings. We have long-standing experience in filter bag technology and our filter cages are designed to ensure optimal performance and easy maintenance.

We offer solutions that match your individual needs. Combined with our technical expertise, support and reliable documentation, you're assured of the best.

Filter baghouse accessories

that ensure a high utilisation ratio on your filtration systems

As a part of the original Filcon Filtration installation package, we supply several accessories for our filter baghouse.

We stock a large number of spare parts for these accessories as well as complete units for quick replacements and larger retrofit solutions.

Retrofit solutions

that improve performance and extend the life of your filters

Our retrofit solutions keep your filtration systems up to date when it comes to:

- Functionality.
- Efficiency.
- Capacity.
- Legal requirements to meet environmental standards.
- New standards in line with plant upgrades.
- Ensuring an ergonomic working environment.
- Legal requirements to meet Workplace Hazard standards, especially in the field of ATEX conformity.

Documentation and quality

Comprehensive documentation that meets compliance standards and covers the entire project management process

Documentation

With growing legal requirements, we have seen an increasing demand for detailed documentation. At Filcon Filtration, we continuously adapt and enhance our documentation to meet both regulatory standards and specific customer needs.

Documentation is an essential part of our project management process—from the initial quote through to delivery and installation of the filtration system. Our documentation package includes comprehensive product and component descriptions, technical specifications, safety and compliance information, and user guides for installation, configuration, and maintenance.

We collaborate closely with customers during the initial quotation phase to identify their specific documentation requirements. These requirements are included in the final contract, with complete documentation provided upon project completion.

CE marking

To support end-users in achieving CE marking, our filters are supplied with an IIB declaration in compliance with Machinery Directive 2006/42/EC. Additionally, Filcon Filtration can assist with preparing the IIA declaration of conformity for the entire scope of Filcon's delivery.

Standards and certificates

Filcon Filtration has received numerous certifications affirming our capability to deliver solutions that comply with various standards and directives. Our dust collection and aspiration filters, along with associated equipment, meet the following standards and EU directives where applicable:

Certificates

- TÜV VDI 2263 Part 3 Compliance Certification mandated by TÜV NORD CERT.
- Declarations of Conformity with the EurAsEC Customs Union's Technical Requirements.
- Declaration of Conformity with the Technical Regulations of Ukraine.
- Inspecta Certification permitting re-stamping of materials used in manufacturing pressure-resistant filters.





Working with us

These certifications highlight our commitment to quality, safety, and regulatory compliance across our product offerings.

Making a difference

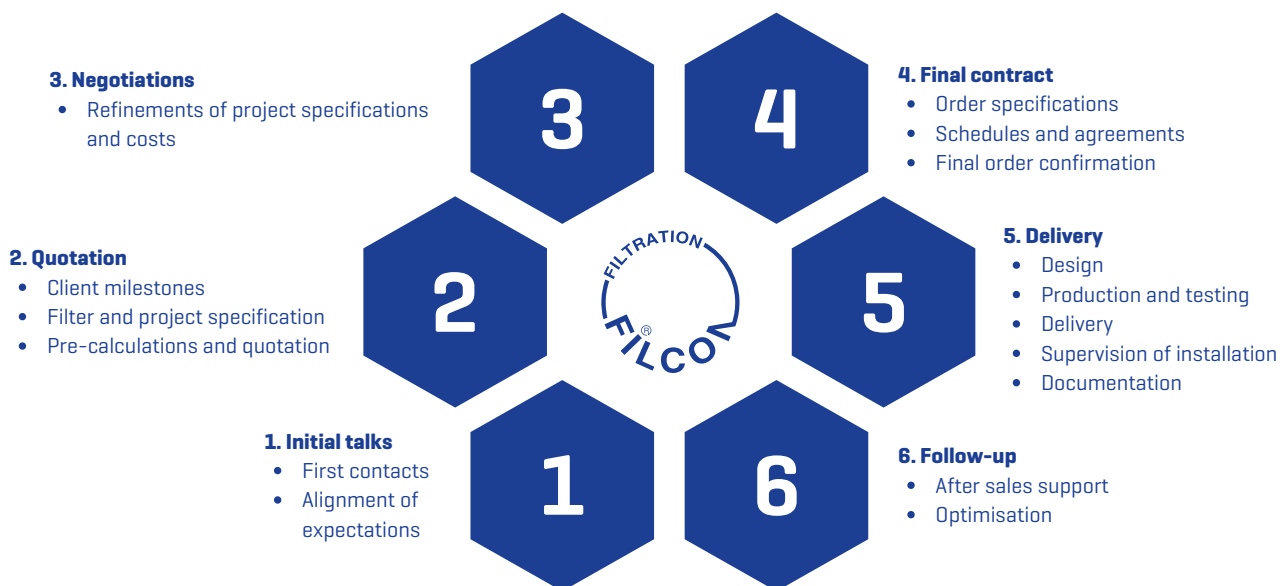
At Filcon Filtration, we are air filtration experts. Although filters are often a smaller element of a larger solution, they play a key role in plant performance, employee safety, and protection of the environment. At Filcon Filtration, we take a holistic perspective. We engineer our products and solutions to provide maximum performance, while making sure they are also financially the best choice.

Every day, we work to be a partner to our customers – a partner with high quality products, who takes responsibility, drives the project forward, responds constructively to challenges, and contributes with knowledge and expertise to deliver the most cost-efficient solution. Our principles for collaborating with our customers secure that we obtain the necessary input at the right time in the process, to deliver to high standards.

Efficient and agile

While product performance is important, we appreciate that our customers are looking for more than an efficient solution. Meeting agreements and the ability to respond constructively to changing requirements during a build, is equally important for a successful project and partnership.

With more than 11.500 filters under our belt, we have developed and refined our project execution model to allow us to be as lean and efficient as possible, but also to operate with agility when required by changing circumstances.





An optimized investment. Delivered with efficiency.

Founded in 1999, Filcon Filtration is a leading provider of industrial air filtration solutions. Our innovative products and unique technology are designed to maximize efficiency, performance, and ease of maintenance for industrial facilities worldwide—all with a focus on low cost of ownership.

Our main areas of expertise:

- **Dust Collection and Aspiration:** We offer an extensive range of pulse-jet bag filters engineered for dust-explosive environments, meeting stringent international standards and certifications.
- **Process Air:** Filcon Filtration develops high quality bag filters that meet the rigorous demands of industries ensuring high standards of durability and efficiency.

At Filcon Filtration, we pride ourselves on our cutting-edge technology and specialized knowledge.

Our dedicated team, along with a global network of partners and representatives, is ready to provide solutions that bring the most value to your business.

We call this an optimized investment, delivered with excellence.



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