



NEU-JKF Sp. z o.o.

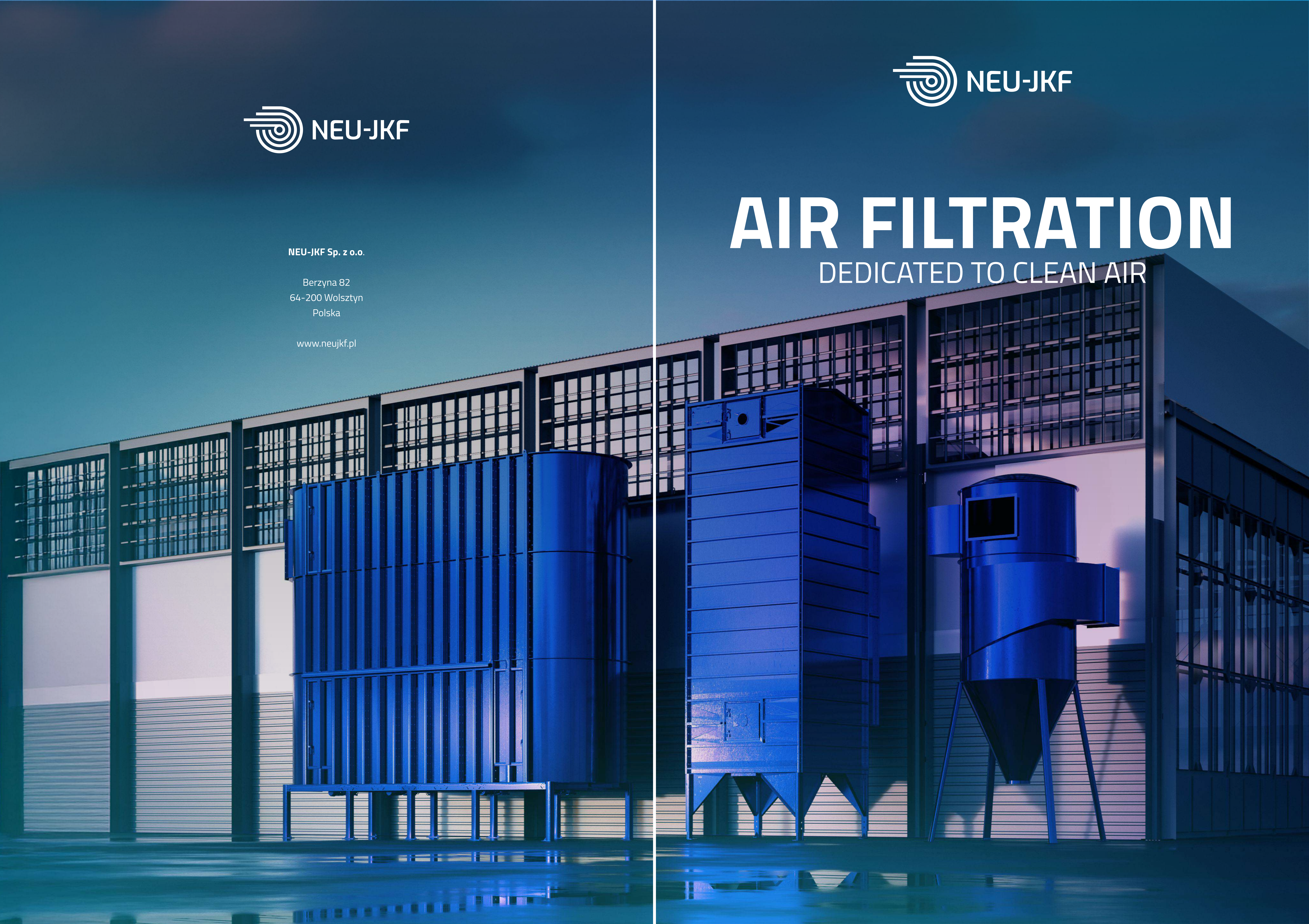
Berzyna 82  
64-200 Wolsztyn  
Polska

[www.neujkf.pl](http://www.neujkf.pl)



# AIR FILTRATION

DEDICATED TO CLEAN AIR





# AIR FILTRATION AND DUST EXTRACTION EXPERTS

**NEU-JKF** is a leading provider of modern air filtration and dust extraction systems, offering comprehensive industrial solutions. Our filters and scrubbers ensure effective dust removal, improving air quality in production facilities while guaranteeing reliability, energy efficiency, and safety of industrial processes. With many years of experience, innovative technologies, and a flexible approach, we tailor our products to meet the specific needs of our customers.

## Global Collaboration, Highest Standards

We are part of an international group, which enables us to draw on the experience and best practices of global leaders in the field of air filtration. We work with renowned partners around the world, delivering innovative and efficient solutions that meet global standards of quality, safety, and environmental responsibility.



Air Filtration for Every Industry

NEU-JKF filtration systems are used across a wide range of industrial sectors. Our solutions are tailored to the specific requirements of each industry, ensuring effective dust removal, employee health protection, and compliance with safety standards, including ATEX. Regardless of the scale or nature of your operations, we deliver technologies that support efficiency and sustainable development.



WOOD INDUSTRY



RECYCLING



METAL INDUSTRY



PAPER INDUSTRY



PLASTICS INDUSTRY



FOOD INDUSTRY



TEXTILE INDUSTRY



GRAIN AND MILLING INDUSTRY



AGGREGATES INDUSTRY

Why is effective air filtration so important?

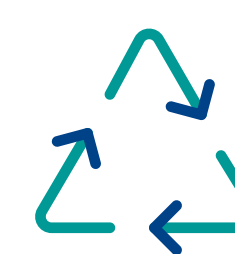
- **Reduction** of dust and gas emissions
- **Protection** of workers' health
- **Optimization** of production processes
- **Compliance** with environmental regulations
- **Improved** product quality
- **Extended** machinery lifespan
- **Increased** energy efficiency





## SuperBlower

SuperBlower filters are modern, high-efficiency units designed for safe continuous operation under both under- and over-pressure conditions. Process air is passed into a filter chamber, where the larger particles settle to the bottom of the filter, from where the air is passed through filter bags which retain the residual particles.



### Characteristics:

- **modular, compact design** - adaptation to existing infrastructure
- **capacity up to 350.000m<sup>3</sup>/h**
- **flat bottom with scraper** - prevents dust from settling and allows any configuration of dust collection
- **two types of inlets:**
  1. **cyclonic** - separation by centrifugal force
  2. **proprietary expansion module** - for uniform air distribution in the filter
- **easy service access** - any configuration of inlets, outlets, location of inspection doors
- **operating pressure max +/- 5000 Pa**
- **PowerPulse®<sup>1</sup> bag cleaning system**
- **filter compliant with the ATEX directive**
- **VFV®<sup>2</sup> flameless explosion relief venting**

### TECH INSIDE

<sup>1</sup> **PowerPulse®** is a proprietary system for cleaning filter bags using compressed air. The bags are cleaned individually. A cleaning arm, equipped with jet valves, moves precisely from bag to bag. **PowerPulse®** ensures high filtration efficiency, minimizes filter media wear, and features the lowest energy consumption among all solutions available on the market.

The low jet pressure of 1.5–3 bar guarantees even cleaning of the filter and minimal use of filter media. The system also allows for the use of longer filter bags, reducing maintenance costs.

<sup>2</sup> **VFV®** is the safest explosion relief system on the market. It enhances safety by releasing pressure vertically into the clean air chamber. Explosion relief membranes are located at the top of the filter. The system ensures that explosive dust is retained within the filter bags, while the shockwave is safely discharged into the surrounding environment.

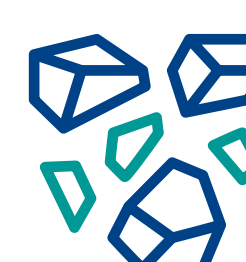
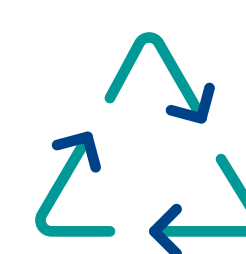
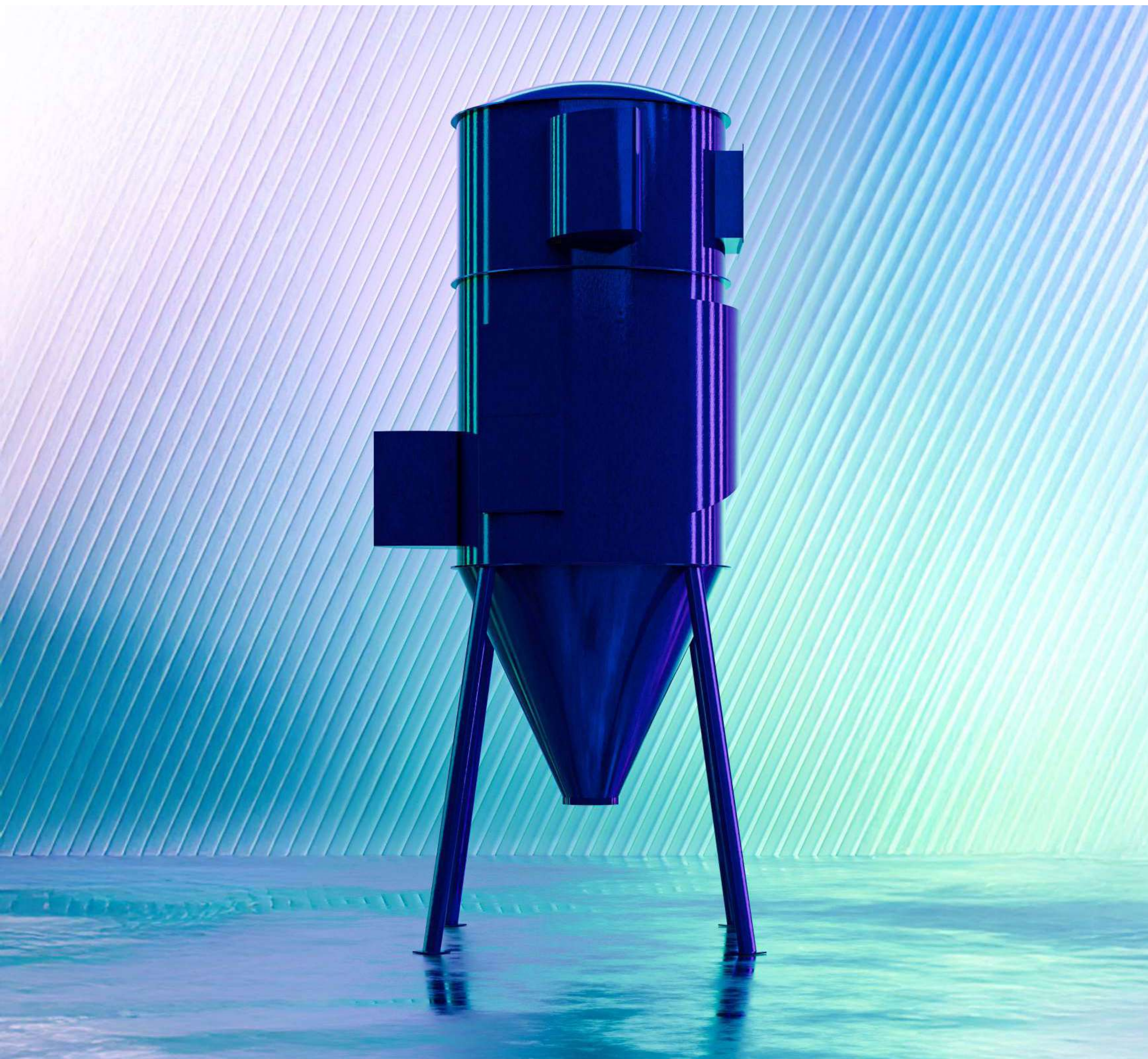
The risk of secondary explosions is completely eliminated, and individuals near the filter are protected from the impact of the blast wave. **VFV®** has been tested and approved by an independent notified body.





## Blower

The Blower is a universal cyclofilter designed for safe and continuous operation under both under- and over-pressure. To enhance filtration efficiency and protect the filter media from excessive wear, it features 180° tangential inlets with an expansion channel, minimizing direct air stream contact with the filter bags. The airflow and load are individually adjusted based on the type of material and operating conditions, ensuring maximum system performance.



### Characteristics:

- **easy and quick installation** - the filter is delivered in 3 parts
- **capacity up to 50.000m³/h**
- **compact design** - suitable for integration with existing infrastructure
- **flat bottom** with scraper or conical bottom
- **operating pressure max +/- 5000 Pa** (special versions from -10,000 Pa to +20,000 Pa)
- **filter bag cleaning system: PowerPulse® or EC cleaning<sup>3</sup>**
- **filter compliant with the ATEX directive**
- **VFV® flameless explosion relief venting**



<sup>3</sup> **EC cleaning** is a filter bag cleaning system that uses compressed air. It cleans multiple bags simultaneously through a single pulse valve.

The pipes are equipped with specially designed jet nozzles positioned precisely above each bag. The system ensures optimal regeneration of filter bags. It features manual adjustment of pulse and pause times. The **EC cleaning** cycle ends with one or more "final cleanings" to remove any residual dust. A "final cleaning" is triggered each time the fan stops.

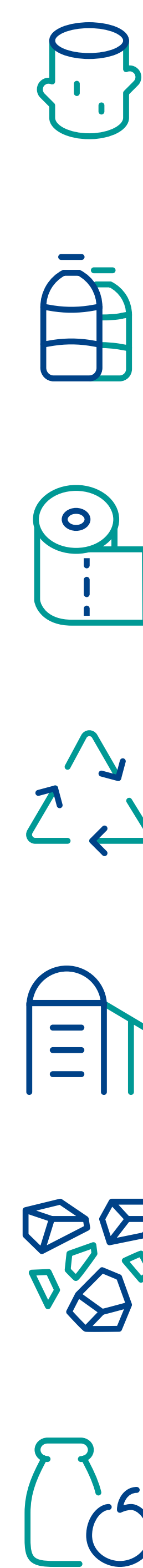
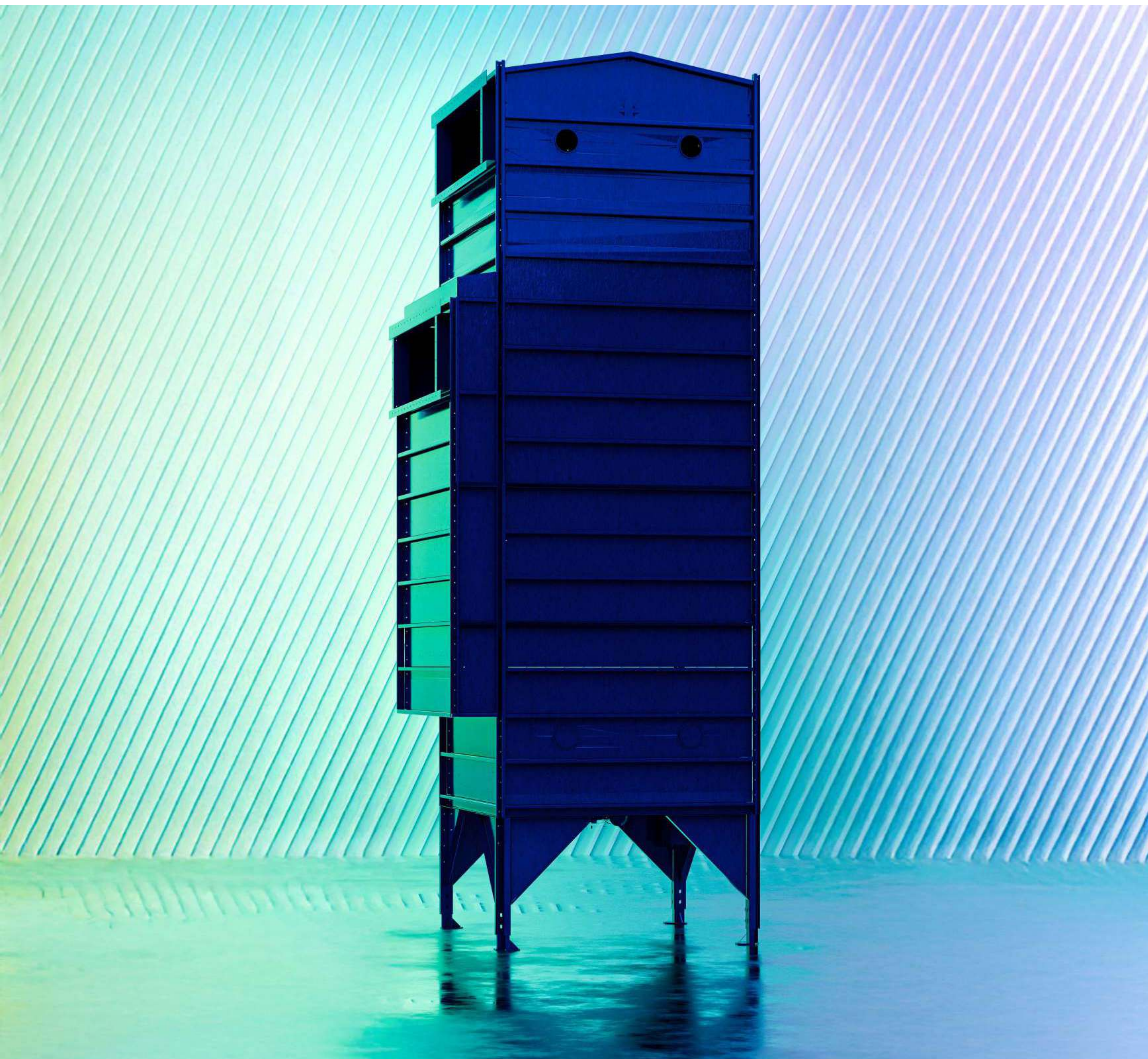
### TECH INSIDE





## SuperJet

SuperJet filters are reliable bag filters designed for continuous operation in both under- and over-pressure systems. Contaminated air enters the filter and strikes a perforated plate, which separates most dust particles that fall downward through a vertical square duct. The air then diffuses through the perforated plate and the filter bags.



### Characteristics:

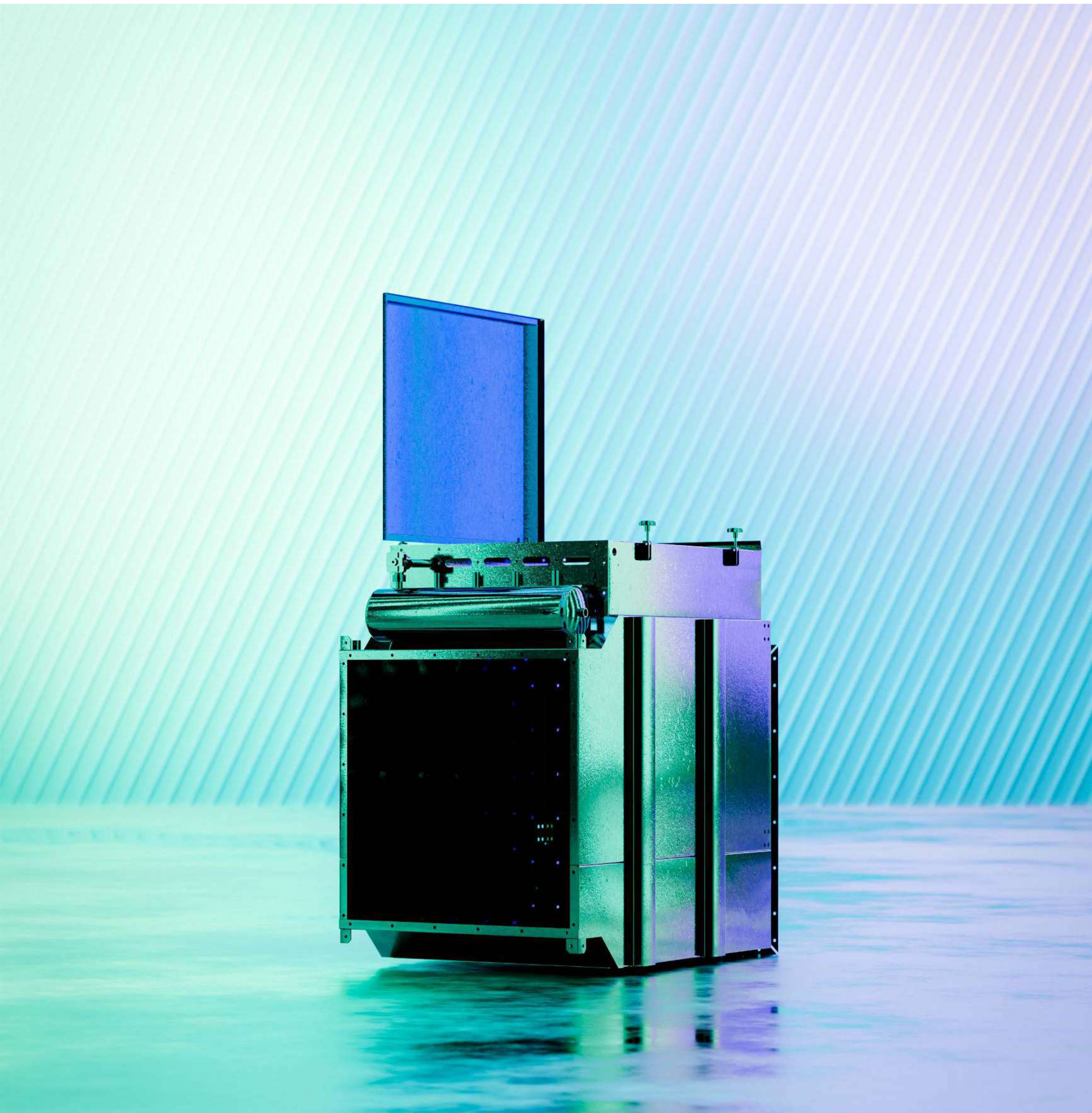
- **compact design** - adaptable to existing infrastructure
- **capacity up to 50.000m<sup>3</sup>/h**
- **unique inlet** with expansion chamber and perforated plate protecting filter bags
- **flat bottom with scraper** - prevents dust buildup and allows flexible discharge configurations
- **doors providing access to both clean and dirty compartments** - easy maintenance
- **delivered in ready-to-install modules** - easy transport and quick assembly
- **operating pressure max +/- 5000 Pa**
- **filter bag cleaning system: PowerPulse®<sup>1</sup> or EC cleaning<sup>2</sup>**
- **filter compliant with the ATEX directive**
- **VFV®<sup>2</sup> flameless explosion relief venting or side ventilation**





## Jetline® CH

JETLINE® CH is a continuous filtration dust collector with exceptionally high efficiency. This filter is designed for operation with fine dust across a wide range of industrial applications. It is recommended for cleaning air containing fine, dry, non-fibrous dust.



### Characteristics:

- **compact, modular design with the option to install an integrated fan** - ideal for installation in confined spaces
- **capacity from 1 000 to 20 000 m³/h**
- **perfectly suited** for operation inside production halls
- **high-efficiency pocket filter cartridges** - ensuring excellent filtration performance
- **configuration and control via NEUSMART™ system**
- **easy access** to the filter's service and operating components
- **available in ATEX version** with explosion relief panels mounted on the roof or side walls of the filter

### TECH INSIDE



“**NEUSMART** is a configuration and control tool for system components such as the fan, rotary valve, dust sensor, compressed air cleaning system, and fill-level sensor.

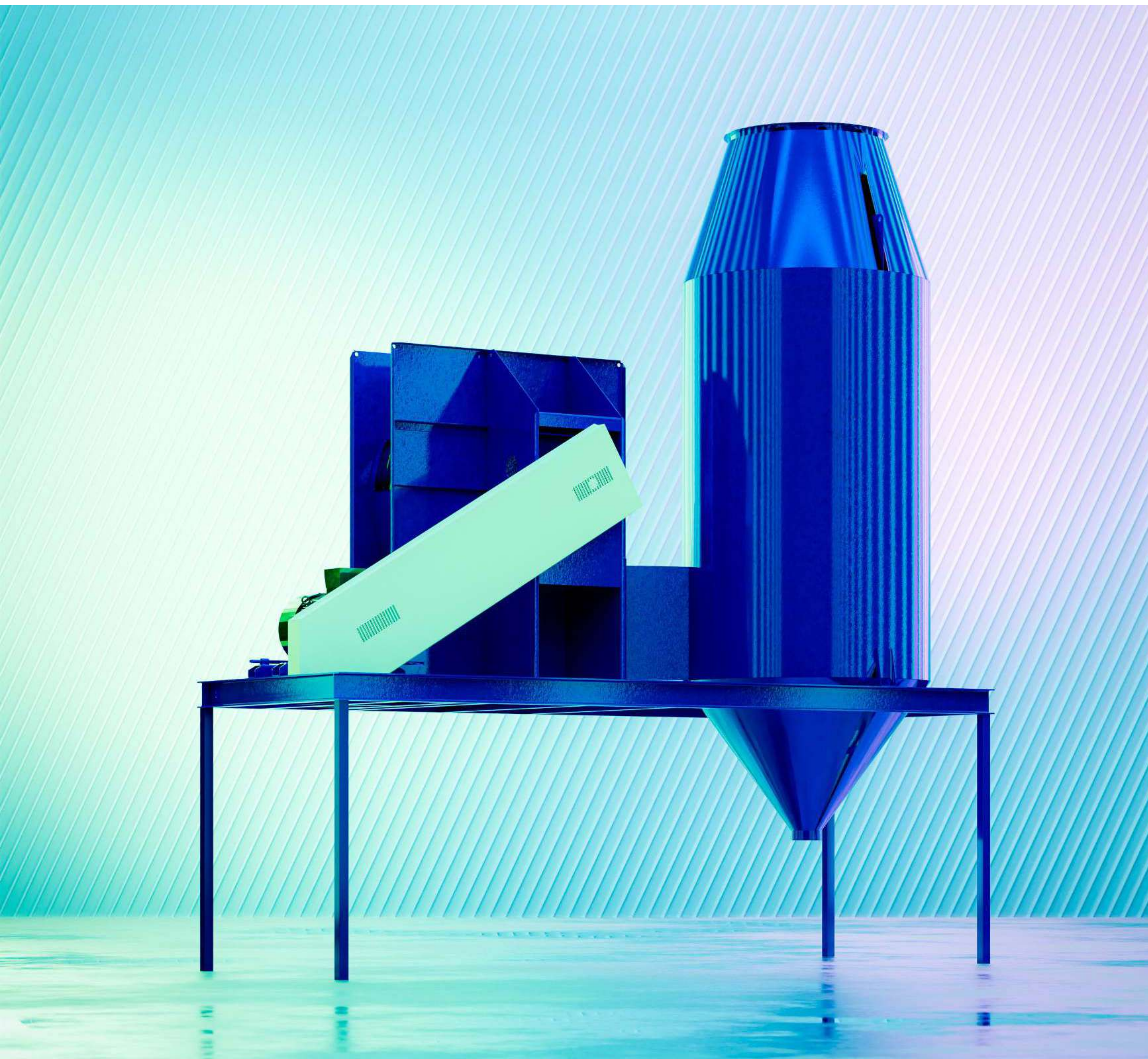
The system is based on a controller that allows setting cleaning cycles, recording pressure drops, and monitoring the amount of extracted dust. **NEUSMART** also enables the programming of maintenance phases. Operation is carried out via a touch screen interface.





## Aqualine HE®

AQUALINE HE® is a wet filtration scrubber-type dust collector that uses water as the filtering medium. It is recommended for cleaning air containing wet, hygroscopic, sticky, oily, glowing, or explosive dust. The extracted air, along with the dust, is sprayed with water through nozzles mounted before the fan inlet. As the air passes through the fan impeller, it mixes with the water, enabling the separation of dust from the air. The dust is then further separated and cleaned inside an inverted cyclone.



### Characteristics:

- **filtration efficiency above 99%**
- **capacity from 2 000 to 72 000 m³/h**
- **no consumable materials**
- **water consumption: 0.15 l/m³ of air**
- **possibility to recover contaminated water** at the separator outlet and reuse it in the process
- **optional** stainless steel construction

