

ENVIROVENT



REVERSE PULSE BAGFILTERS

Engineered Solutions for Cleaner Industrial Air

DESIGNERS & SUPPLIERS OF COMPLETE PLANTS FOR
VENTILATION, DUST AND FUME EXTRACTION.

ENVIROVENT is a leading provider of engineered air pollution control solutions for the mining, mineral processing, bulk materials handling and industrial sectors. We specialise in the design, manufacture, installation and commissioning of complete ventilation, dust and fume extraction systems, supported by experienced engineers, skilled technicians and comprehensive after-sales service.

Our solutions are developed to address a wide range of industrial air pollution challenges, including dust control, fume extraction and product recovery. Every system is engineered to suit the specific application, delivering reliable performance, efficient operation and long-term value for our customers.

REVERSE PULSE BAGFILTERS

Envirovent Reverse Pulse Bagfilters are engineered for high-efficiency dust collection across a wide range of industrial applications. Designed for continuous operation, their robust construction, automatic reverse pulse cleaning system and proven filtration technology deliver reliable performance, extended filter bag life and low maintenance requirements under demanding operating conditions.

OPERATING PRINCIPLE

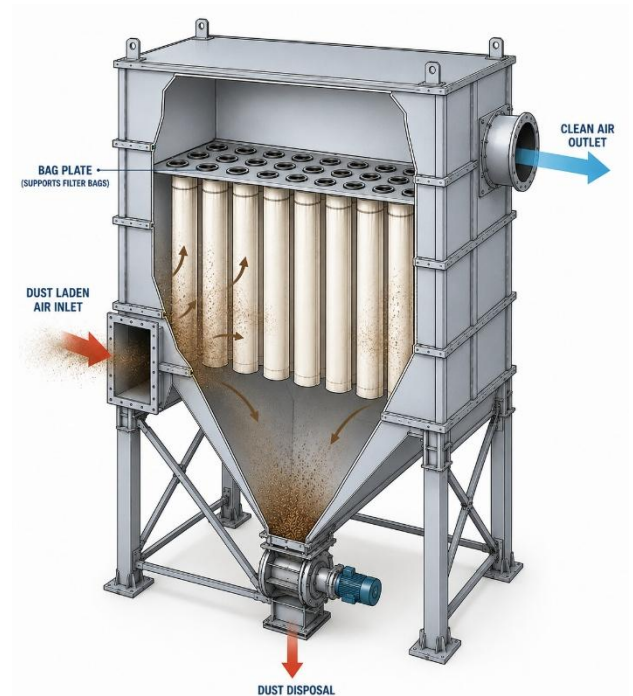
Dust-laden air enters the lower hopper section through an inlet diffuser, which evenly distributes the airflow and reduces gas velocity. This promotes primary separation of the heavier dust particles before the air flows upward around the filter bags.

As the air passes through the filter media, dust particles are collected on the outer surface of the filter bags while clean air passes into the clean-air plenum and exits through the outlet.

At predetermined intervals, a short pulse of compressed air is released through the pulse cleaning system, dislodging the accumulated dust from the filter bags. The dust falls into the hopper and is continuously discharged through a rotary vane feeder, double flap valve or other suitable discharge device.

The automatic reverse pulse cleaning system enables continuous online operation while maintaining high filtration efficiency, low pressure drop and extended filter bag life.

The clean-air plenum provides safe and convenient access for routine inspection, maintenance and filter bag replacement.



MODEL BE REVERSE PULSE BAGFILTER

The Envirovent BE Reverse Pulse Bagfilter provides economical, high-efficiency dust collection for gas flow rates from 0.5 to 100 m³/s. As illustrated in the typical collection efficiency curve below, the BE can achieve collection efficiencies exceeding 99.9% while delivering reliable performance, extended filter bag life and low maintenance in demanding industrial environments.

Designed for continuous operation, the BE is ideally suited to medium and high dust loading applications, delivering high filtration efficiency and reliable long-term performance at operating temperatures of up to 260°C.



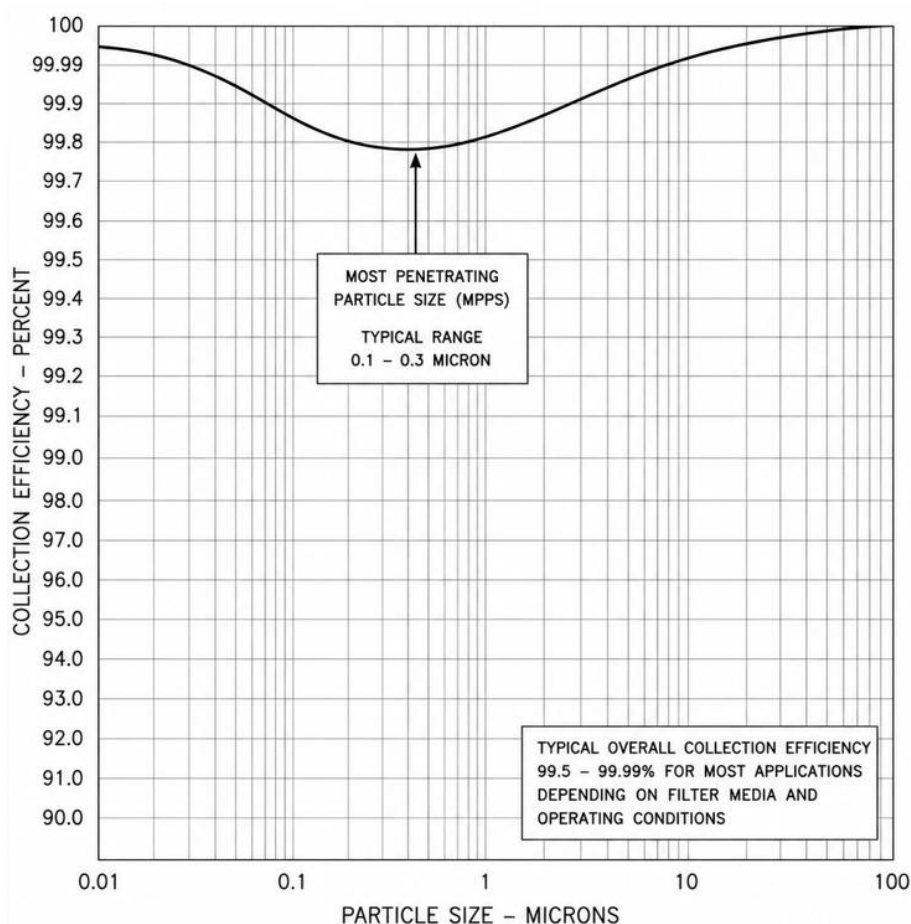
KEY BENEFITS

- ✓ Proven and reliable design
- ✓ High filtration efficiency
- ✓ Continuous online cleaning
- ✓ Low maintenance requirements
- ✓ Operating temperatures up to 260 °C
- ✓ Designed to suit specific process requirements



TYPICAL BAGFILTER COLLECTION EFFICIENCY

Typical collection efficiency varies with particle size, gas velocity and dust loading.



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At Envirovent, we believe every application deserves the right solution—not simply the biggest solution. We work closely with our clients to develop engineered solutions that deliver cleaner industrial air through practical, reliable and cost-effective air pollution control systems.

Contact our engineering team to discuss an air pollution control solution tailored to your application.

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