



**scheuch**  
TECHNOLOGY FOR CLEAN AIR

# ROUND FILTER

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TAILOR-MADE  
FILTRATION TECHNOLOGY

# THE FLEXIBLE SOLUTION FOR INDUSTRIAL DEDUSTING

## HIGHLY DURABLE AND EASY TO MAINTAIN

As individual as your requirements: the **Scheuch round filter** is a compact, heavy-duty filtering separator that is suitable for almost all industrial dedusting applications and pneumatic conveying systems. Variable floor plans and installation heights create flexible planning options that can be optimally adapted to local conditions. With a flow rate of **up to 150,000 Am<sup>3</sup>/h**, the round filter covers a wide range of performance.

The round design allows for **flexible and space-saving planning** and is particularly suitable for confined spaces. Different designs, such as top filters and filters with a dust collection hopper and integrated pre-separator, ensure flexible operating conditions. The integrated pre-separator, which acts as a centrifugal separator, is particularly effective at separating large quantities of material, making it an ideal solution for conveyor systems and central vacuum cleaning systems.

The **Scheuch PulseMaster 2.0 control unit**, developed in-house, is an essential component for efficient operation. Maximum energy and resource efficiency is achieved in combination with the powerful **impulse cleaning system**. This leads to a reduction in the consumption of operating resources and to a minimisation of the carbon footprint within the production plant.

### A comprehensive service package for lasting success:

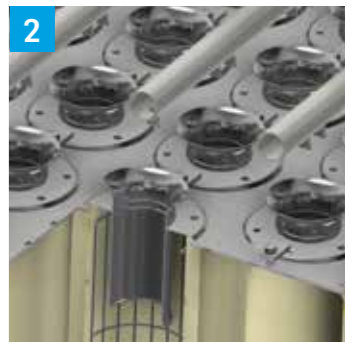
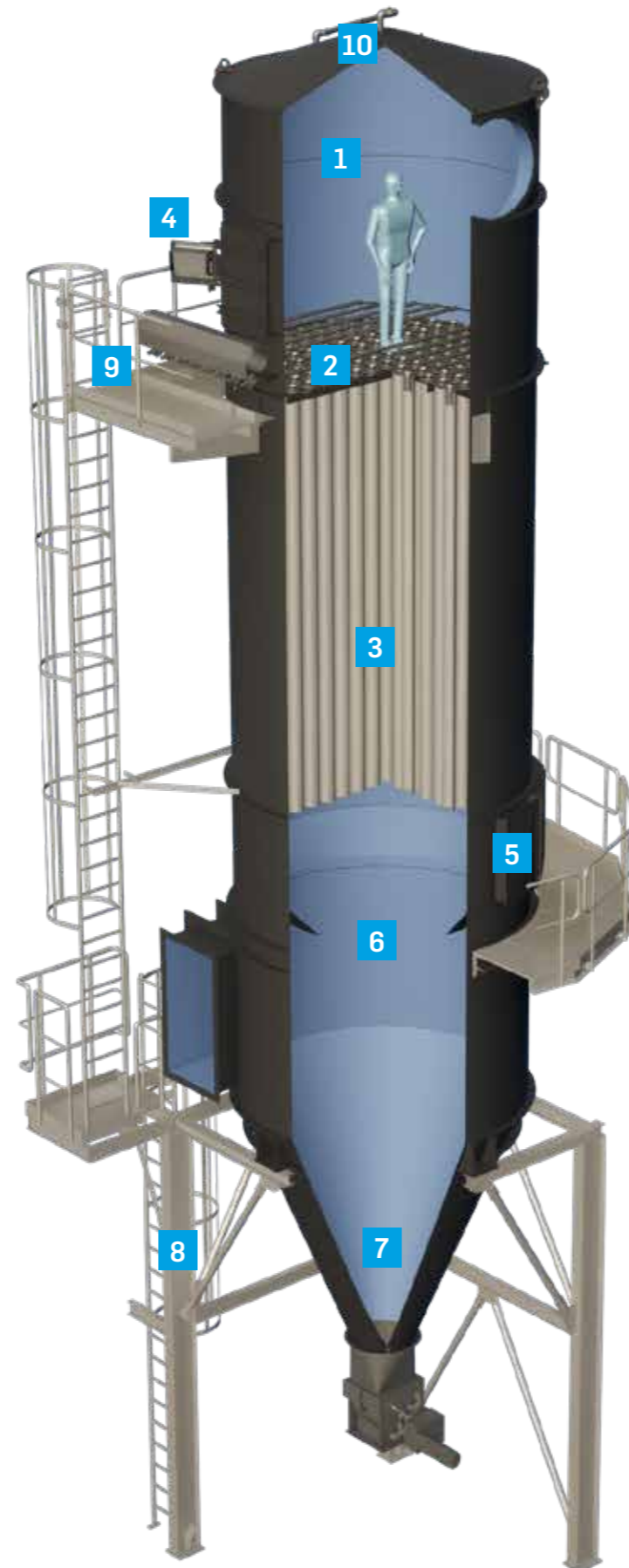
From filter technology to the control unit and spare parts management – the comprehensive service package covers all the relevant areas. This results in a tailor-made solution that is perfectly aligned with individual requirements.

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| <b>1</b> Walkable filter head            | <b>6</b> Pre-separator                 |
| <b>2</b> Impulse cleaning system         | <b>7</b> Dust collection hopper        |
| <b>3</b> Filter elements                 | <b>8</b> Supporting structure          |
| <b>4</b> PulseMaster2.0core control unit | <b>9</b> Walkway                       |
| <b>5</b> Pressure relief unit            | <b>10</b> Dry extinguishing agent line |

Play it safe with Scheuch

### FIRE AND EXPLOSION PROTECTION

ATEX-compliant, pressure-shock-resistant solutions for the secure handling of combustible and explosive dusts. We offer a variety of explosion relief options, including rupture discs and flameless venting devices. Our systems guarantee flame and/or pressure relief towards defined directions – in accordance with EN 14491 and NFPA 68 – for maximum safety and reliability.



### PulseMaster2.0<sup>core</sup> SMART FILTER MANAGEMENT

- top performance and comprehensive monitoring of your filter
- highly energy-efficient operation thanks to predefined settings for the cleaning logic
- quick and easy commissioning using plug-and-play features
- field bus-capable for integration into higher-level plant control system
- optional remote maintenance allows for the shortest response times for rapid support

### EFFICIENT impulse CLEANING SYSTEM

impulse 2-stage diaphragm valves and propellant jet pipes with an optimised nozzle cross-section ensure gentle, even cleaning of all filter bags as well as maximum durability.

### SCHEUCH ROUND FILTER ADVANTAGES AT A GLANCE

- **Flexible planning options:** adapt to local conditions using variable floor plans and construction heights.
- **Space-saving design:** Compact, round design – ideal for limited space.
- **Energy-efficient operation:** Optimised raw gas flow and particle separation using an integrated pre-separator and the powerful impulse cleaning system with intelligent filter management
- **High reliability:** Smooth surfaces in the raw gas area prevent dust deposits and product mixing in batch operation.
- **Individual pre-assembly:** minimising transport volume and rapid installation on site reduce downtime in ongoing production processes.
- **Maintenance-friendly design:** Accessibility via inspection facilities is provided for, bag changes can be easily and comfortably performed on the clean air side via the accessible filter head, plus user-friendly operation of the control unit directly on the filter.
- **Fast availability:** Continuous stockholding of components enables short delivery times and fast availability of spare parts.
- **High level of safety:** optionally available as an explosion-pressure-shock resistant unit with rupture discs for pressure relief.
- **Tailor-made wear protection:** optional wear protection solutions for abrasive materials ensure a long service life and maximum availability.



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