

Effective fabric filter solution that meets the strictest dust emission requirements in medium to large gas flows, reducing upfront costs

The DuoClean™ bag filter system meets the strictest dust emission requirements in medium to large gas flows. Reducing upfront costs and proven in many installations worldwide, it comes in a traditional rectangular (DC) or an innovative octagonal shape (DC2). This unique design fast-tracks manufacturing and construction time, minimising delivery time and costs. In creating the two baghouse filters, it has further improved the cleaning system, gas distribution capabilities and the long filter bag technology.

Benefits

Efficiency

- Dual-flow gas approach, where the gas enters from the bottom and the sides of the bags. This ensures a low, uniform velocity over the entire bag filtration area, meaning you can use longer bags, which reduces the filter footprint.
- Optimal control of gas distribution and the ideal dual-flow split, with significant dust being pre-separated to the hopper, compressed air usage and increases the lifetime of the bags, leading to lower OPEX.
- The pulse jet system automatically cleans the bags row-by-row even as the dust is being filtered. Cleaning is online, the semi-offline is available on request.

Savings

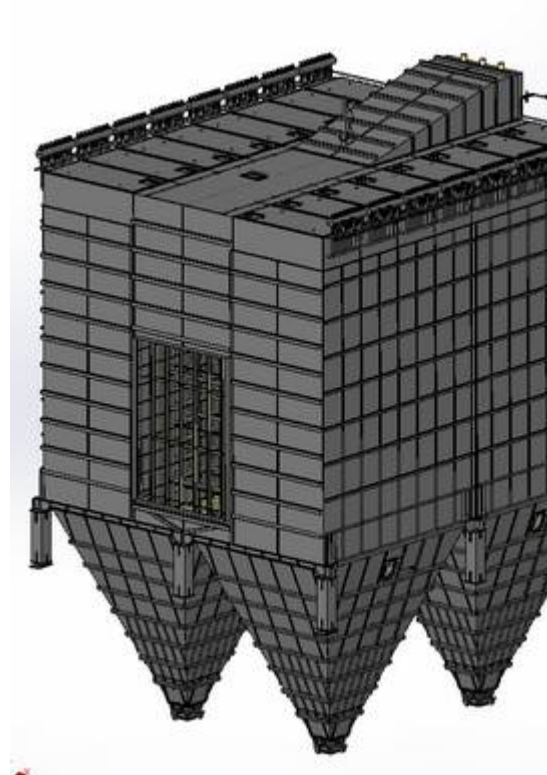
The long filter bag technology reduces filter footprint and CAPEX. The compact design makes it easy to manufacture, transport and construct onsite. Simatek's DuoClean filters ensure an outstanding performance at a low operational cost. Thanks to the unique gas distribution and pre-separation of dust, the pulse jet cleaning system operates with a minimal number of cleaning cycles, resulting in low compressed air consumption, less wear of the bags and an increased bag lifetime.

The DC2 filters' octagonal shape casing and the width of the eight side panels and tube sheet elements fit into a standard shipping container. The containers are packed with a focus on utilising the entire space, reducing the number of containers required and minimising transportation costs.

Flexibility

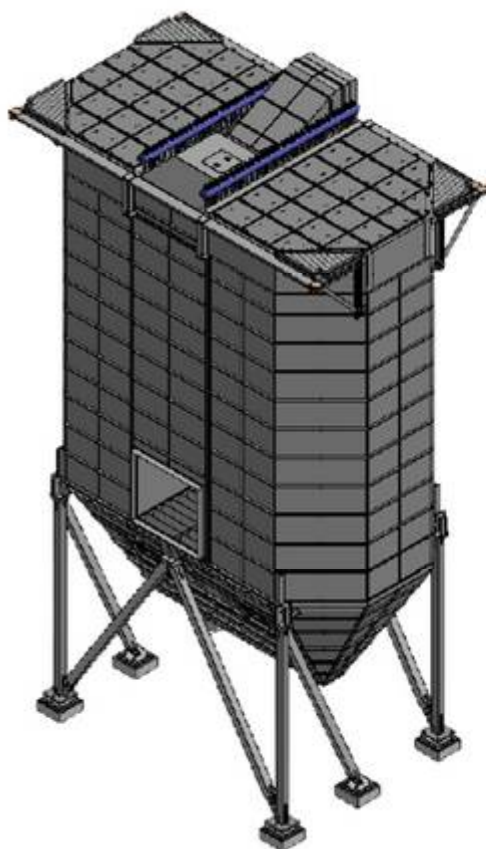
The design offers a great flexibility, thus there is a tailor made filter design for any medium to high gas flow you can separate almost any kind of dust – fine, abrasive, sticky.

Possibility of using various type of bags (materials and sizes)

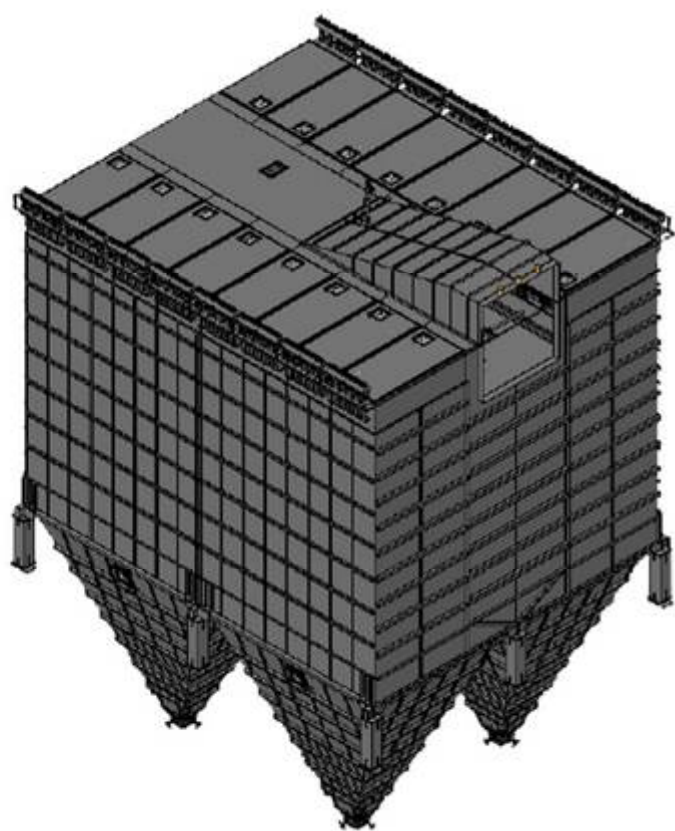


Features

- Capacity: 40,000 – 2,000,000 m³/h
- Filter size: 700 – 27,500 m² filter surface.
- Standard min 4% vacuum (400 mmWC)
- Bag length: 6 - 12 m, 5" / 6" bag preferred
- Works on dry, abrasive and sticky products
- Unique gas distribution system
- Available with Top Access only, either enclosure or optional.
- Controller is designed for both serial and parallel interface. PLC is optional.
- Burst bag detector for fast detection of faulty bags option available



DC2 filter



DC filter

Industries we serve for emission control and product recovery (detailed industry segments on our homepage)

- Cement & Lime
- Food & Dairy
- Grain & Feed
- Speciality Powder
- Energy & Waste
- Chemical & Mineral resources