

Venti PowerAirTube

The reverse air filter for dry dust



Venti PowerAirTube – compact, powerful, smart

The Venti Oelde reverse air filter with its round construction is suitable for the separation of almost all types of dry dust. It is compact, space-saving and extremely powerful.

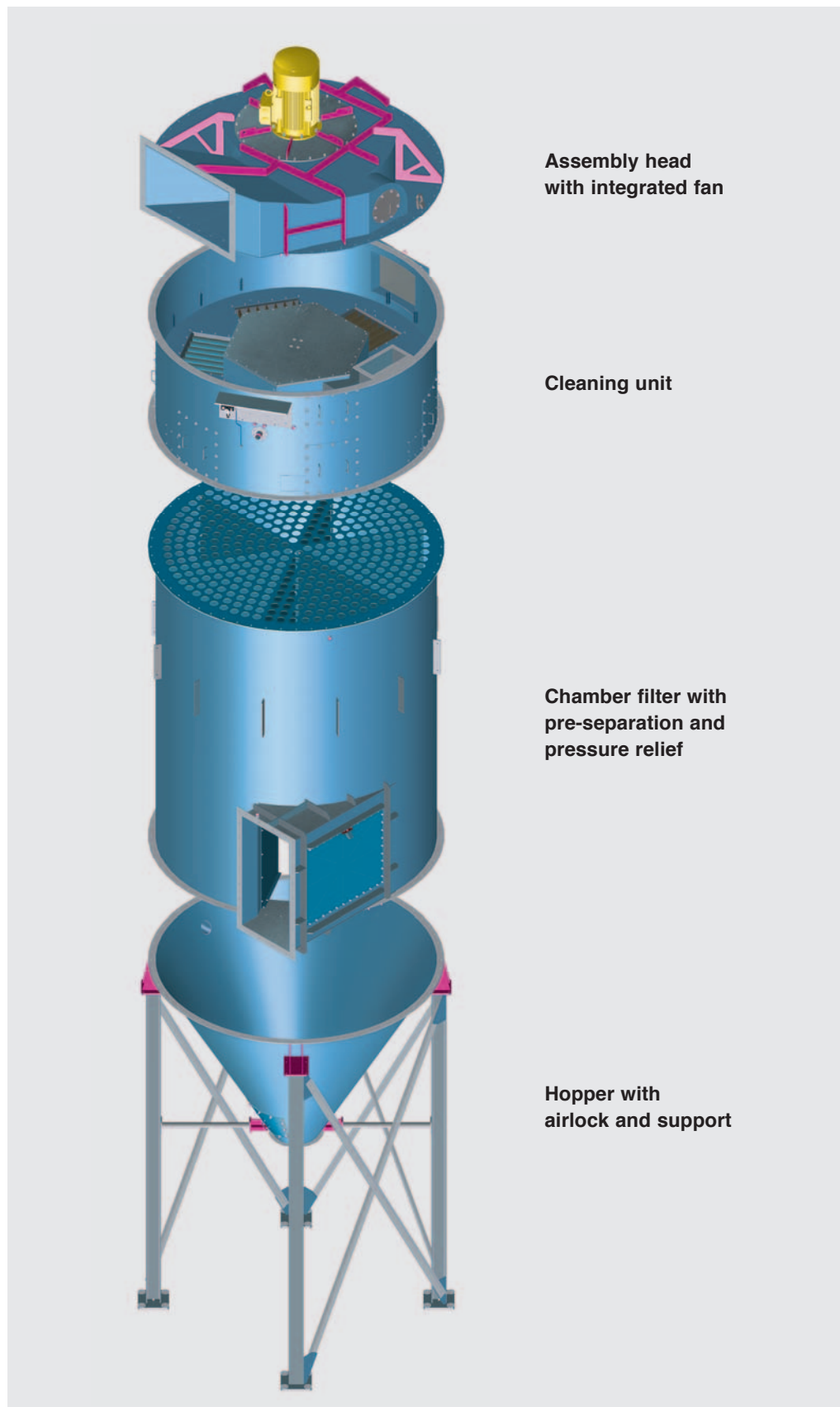
The compact solution

In the Venti PowerAirTube, the fan is integrated into the assembly head on the clean gas side. This makes it more compact because no additional space is required, enabling the operation of a large-scale dust extraction system on the smallest possible area.

High energy efficiency for increased savings

The Venti PowerAirTube's all-in-one design is highly efficient. Clean gas ducts and pipes leading to the fan are not needed, so there are no energy losses resulting from resistance in the ducting. Instead, the gas flow is drawn efficiently straight to the fan. With integrated volume flow control, the performance of the fan can be adjusted as required.

Often, the cleaned air can be returned to the workspace, which significantly reduces energy costs, particularly during the colder months of the year.



Optimised filter area

With its intelligent filter bag arrangement, the Venti PowerAirTube can achieve a maximum filter area within the minimum amount of space.

Filter flow rates of between 8,000 m³/h and 90,000 m³/h in an exceptionally compact unit: This enables the system to achieve air throughput of 90,000 m³/h with a footprint of just 13 m².

Venti PowerAirTube – the easy-maintenance filter system

The intelligent positioning of inspection access doors enables the easy inspection and maintenance of all relevant filter components. Thus the filter bags in the Venti PowerAirTube are replaced from the clean gas side. Thanks to the highly flexible sprung support cages, this can be done quickly and safely. The filter is exceptionally low-maintenance. This simplified inspection and maintenance save time for your staff and the customer service team.



Maximum performance with minimum footprint

Diameter (mm)	Height (mm)	Volume flow (m ³ /h)	Total pressure difference (Pa)	Motor output (kW)	Weight (kg)	Footprint (m ²)
1600	5057	8000	3000 - 4991	11 - 18,5	2900	3
1600	6180	12000	3000 - 4571	15 - 22	2900	3
1800	6482	16000	3000 - 5500	22 - 37	3000	3
2000	6842	20000	3366 - 5831	30 - 45	5000	4
2240	7222	28000	3371 - 5345	37 - 55	5600	4
2500	7479	34000	3000 - 4913	45 - 75	6400	5
2800	7870	42000	3000 - 4558	55 - 75	7400	7
3000	8071	50000	3000 - 4561	55 - 90	8300	8
3350	8568	60000	3218 - 4900	75 - 110	9700	9
3550	8743	70000	3471 - 4400	90 - 132	10600	10
3750	8879	80000	3500 - 5600	110 - 160	11500	12
4000	9445	90000	2800 - 5020	110 - 160	12500	13

Venti PowerAirTube – efficient in all areas

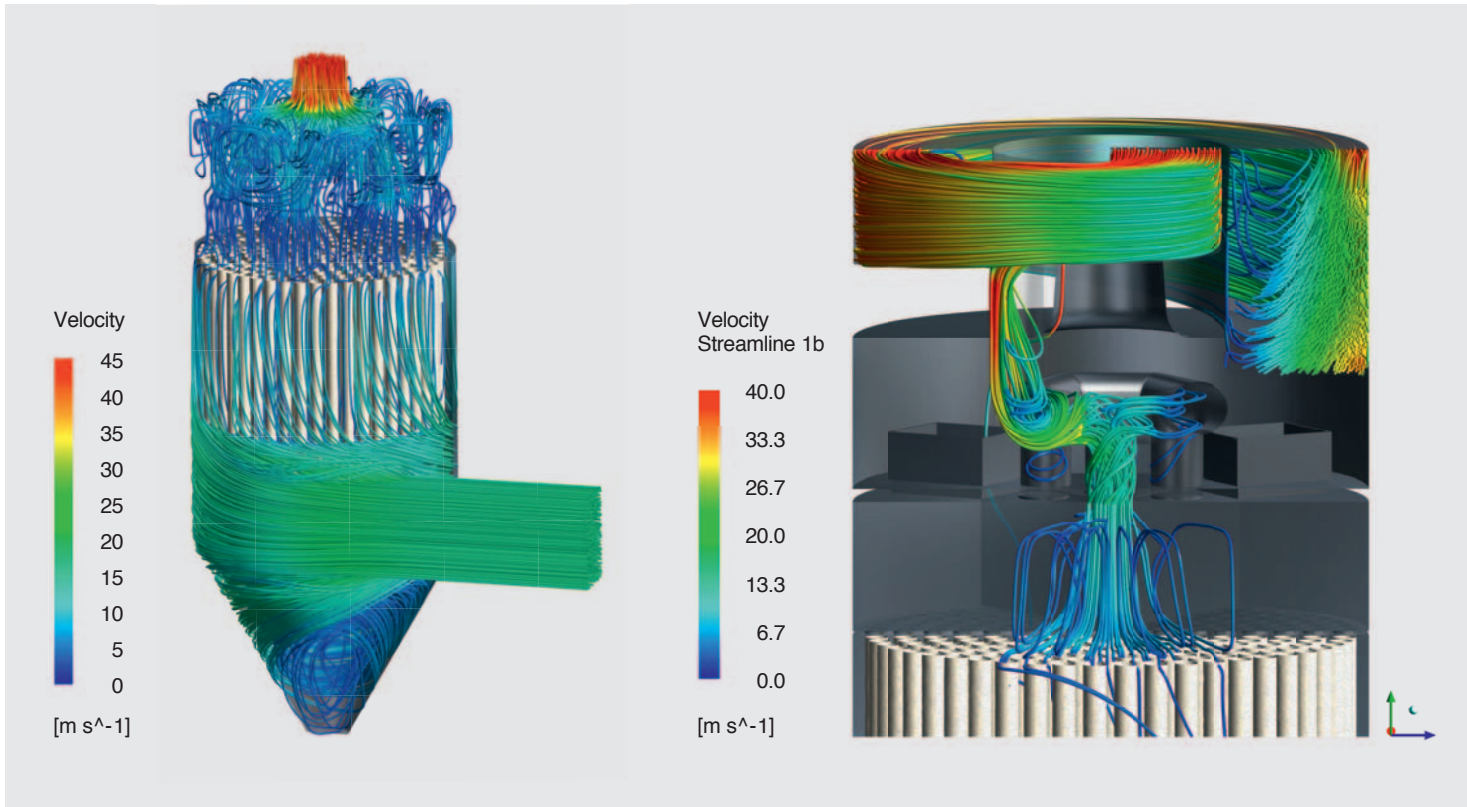


Easy assembly

The Venti PowerAirTube is supplied fully assembled. No separate foundation for the fan or complicated ducting connections to the filter unit are required. Only inlet and outlet ducts, support and dust discharge are installed on site. Even the electrics are pre-fabricated, so the system can truly be described as “plug and play”.

This means, therefore, that assembly costs are significantly reduced.





Technology that is gentle on materials

The use of the system's inherent low-pressure pulses enables the filter bags to be cleaned more gently. The ongoing monitoring of filter resistance guarantees timely cleaning and thus extends the life of all materials. The obvious result is reduced costs for the replacement of wear parts.

Effective pre-separation of material

Thanks to the tangential inlet and optimised filter bag arrangement, the Venti PowerAirTube has an integrated, highly effective cyclone pre-separator. This enables a very high degree of separation and the filter surface area can be adjusted to the process as required, ensuring safe dust extraction, even with large amounts of material.

Efficient cleaning

The Venti PowerAirTube boasts a highly efficient reverse air cleaning system using pressure pulses for the filter bags. The cleaning process takes place in a sealed unit, using only process air from the system itself.

The use of process air in cleaning means that the usual sources of interference, such as condensation, frost or material caking in the filter bags, are avoided. This means ideal dust extraction results for your business, all the time.

Venti PowerAirTube – an all-round impressive solution



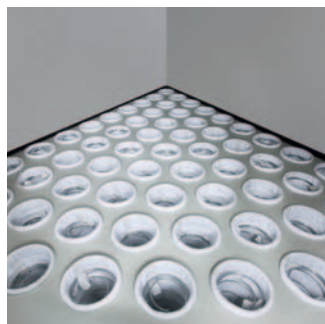
Minimises the risk of fires and explosions

On request the filter can be supplied in explosion-proof design. The sturdy construction of the housing reduces the need for certified venting devices. The required decoupling of the clean gas side is integrated for return air operation.

In addition, the filter can also be fitted with a dry extinguishing line with spray nozzles and C-coupling. Automatic extinguishing systems can also be integrated.

Stands up to pressure

The Venti PowerAirTube filter housing is made from welded 4 mm sheet steel. The robust construction of the housing achieves pressure resistance of > 0.5 bar, which enables the minimal use of rupture discs.



Tailored to your needs

We use only high-quality material as filter media. This means we can tailor the filter specifically to the types of dust to be extracted and their characteristics.

Lower operating costs

The Venti PowerAirTube is an impressive all-in-one package that saves you money. Inspections and maintenance are straightforward and fast. The monitored filter function enables preventive action and ensures smooth operation. Its technology, which is gentle on materials, extends the system's lifespan. Even energy consumption is reduced thanks to the compact design. The intelligent dust extraction solution with high cost-saving potential.



The Venti PowerAirTube impresses

✓ Compact, space-saving solution

✓ Very easy-maintenance

✓ Effective pre-separation of material

✓ Lower operating costs

✓ Optimised filter area

✓ Minimal assembly

✓ Efficient cleaning

✓ High energy efficiency

✓ Technology that is gentle on materials

- Industrial fans
- Dust collection and process air cleaning plants
- Exhaust air treatment plants
- Ventilating, heating and air conditioning plants
- Recycling and waste processing plants
- Surface technology



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