

OPERATING THEATRE AND OTHER SENSITIVE AREAS:



AIR FILTRATION

Air provides us with vital oxygen. If our immune system has been compromised, however, the air that we breathe can be life-threatening since pollutants, bacteria, or even a virus may be introduced with each breath taken. A healthy body can withstand such hazards; a body weakened by disease, cannot. This is why the filtration and control of airflows is elementary in hospitals. In addition to the filtration of fresh air, which is also common to other buildings, hospitals use particulate filters for aseptic areas because they ensure a particularly high air cleanliness and can filter out even the tiniest particles and pathogens. Such filters are ceiling mounted and have a diffuser face.

TROX high efficiency filters.

TROX offers an extensive filter programme for technically and economically sound solutions: Filter units are available for different installation locations, e.g. walls, ducts or ceilings, and suitable filter elements meet every application requirement.

The efficiency of all filters is tested to EN 779 or EN 1822. As standard, TROX fine dust filters of filter classes M5 to F9 (to EN 779) are certified by EUROVENT.

TROX manufactures all parts of filter units in-house, from the casing and filter elements to the diffusers; the TROX filter production facilities in Germany are equipped with the most advanced machinery. Expert sales staff offer comprehensive support to customers. In addition, customers can make use of the intelligent Easy Product Finder design programme.

TFC CEILING MOUNTED PARTICULATE FILTER



TFC ceiling mounted particulate filters as final filters with Mini Pleat filter panels

- For air cleanliness classes 5 to 8 according to ISO 14644-1
- Meet the hygiene requirements of VDI 6022

TFM PARTICULATE FILTER MODULES



TFM particulate filter modules as final filters with Mini Pleat filter panels

- For air cleanliness classes 5 to 8 according to ISO 14644-1
- Meet the hygiene requirements of VDI 6022

PROCONDIF PROFILE CONTROLLED DIFFUSION



These diffusers are also an excellent solution for providing supply air from above to sensitive areas in hospitals, creating a displacement flow in the occupied zone.

280 to 600 m³/h
78 to 167 l/s
600 x 600, 625 x 625 mm

450 to 1000 m³/h
125 to 278 l/s
Ø 725 mm

TFM PARTICULATE FILTER MODULE



TFM particulate filter modules as final filters with Mini Pleat filter panels

- For air cleanliness classes 5 to 8 according to ISO 14644-1
- Meet the hygiene requirements of VDI 6022

PARTICULATE FILTERS: TESTED TO EN 1822: FILTER CLASSIFICATION: U16 MEANS THAT ONLY ONE PARTICLE PERMEATES THE FILTER.



When a U16 filter with an efficiency of 99.99995 % is exposed to 2 million particles, only one particle will not be filtered out. By comparison, an H13 filter (99.95 % efficiency) will be permeated by 1000 particles, and an M6 filter (50 % efficiency) by one million particles.

Particulate filters are subject to efficiency tests before shipping. The overall efficiency is calculated from the measured local filtration efficiencies. When a filter is leak-free and fulfils the criteria of the overall efficiency, it is assigned an individual filter number.

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