Professional Air Cleaning for Sensitive Areas
FreciousComfort
Clean
The best solutions for the greatest air purity

EXPERT FOR PROFESSIONAL AIR CLEANING

MANN+HUMMEL is a globally leading expert in filtration. We develop filtration solutions for numerous applications – including to provide clean, indoor air for industry and public spaces. One of our focal points is the development and production of HEPA filters according to the EN 1822 European standard and the ISO 29463 worldwide standard. Micro glass fiber media of the latest generation are used here.

Our particle filters are tested as per ISO 16890 and certified as per Eurovent.

FRECIUSCOMFORT CLEAN - THE SOLUTION FOR SENSITIVE AREAS

We have adapted our filtration and extraction system know-how for mobile applications. The FreciusComfort Clean combats the most common and hazardous pollutants and thus increases air purity.
Scan test system for HEPA filters

Particle filter element during the scan test
Perfect filtration of contaminated air

CARBOACTIV CUBE FRECIOUSCOMFORT

The filter is integrated in a metal frame and combines particle filtration with gas adsorption. Among other things, its highly efficient filter layers separate droplet-shaped virus particles from the air. Its polyphenol layer is effective against protein-containing particles and has a CoV-reducing potential (CN Chen et al. Inhibition of SARS-CoV. Evid Based Complement Alternat Med. 2005 Jun; 2(2): 209-215). The filter also prevents bacteria, mold, odors and dangerous gases from reaching the filter’s clean side. Bifa and the Hohenstein Institut have proven and certified this function.

HEPA-FILTER (HIGH EFFICIENCY PARTICULATE AIR)

As a standard, the FreciousComfort Clean is fitted with a class H13 HEPA filter according to EN 1822. You can also optionally select filter class H14. These filters are used, for example, in operating theatres and in the pharmaceutical industry to reliably remove germs, viruses and microbiological contamination from the supply air. The European standard EN 1822 classifies HEPA filters and evaluates them according to their separation in MPPS (Most Penetrating Particle Size). With the micro glass fibre media used here, the MPPS is at around 0.2 μm. In relation to this particle size, filter class H13 has a separation performance of at least 99.95%, while the separation performance of filter class H14 is better by a factor of 10.
FreciousComfort Clean’s 3-stage filter system ensures that **99.95%** of air impurities are removed.

**CARBOACTIV CUBE FRECIOUSCOMFORT**
combines particle filtration with gas adsorption and has a CoV-reducing potential.

**HEPA-FILTER**
as a standard, H13 class according to EN 1822, optionally, the H14 filter class can be selected.
FreciousComfort Clean
Air management

HIGHLY FLEXIBLE APPLICATION OPTIONS

The FreciousComfort Clean can be flexibly adapted to the customer’s needed application. It can be used in positive and negative air pressure or circulating air mode. Please contact us regarding the optimal design and operation of the filtration unit while considering ventilation-related applications.

NEGATIVE PRESSURE
To prevent particles from escaping from the room to be cleaned, it can be operated in negative pressure. Operation in negative pressure requires a solid technical ventilation setup. In this case, the incoming air must in any case be highly pure, we would be happy to support you with this request.

POSITIVE PRESSURE
Positive pressure rooms are used for applications where the room’s interior must remain clean and will not be contaminated by polluted air, for example through airborne molecular contaminants or particles transported by microbes.

CIRCULATING AIR
Closed-off rooms can be continuously cleaned of particles in circulation mode, which significantly improves the air quality.
FreciousComfort Clean
Technical data

TECHNICAL DATA

- air flow rates up to 2,000 m³/h
- robust design
- easy handling
- 230-volt connection
- fine adjustment of volume flow in 10 steps
- Plug&Play
- low operating costs thanks to energy-efficient EC motors
- Monitoring of filter loading using pressure gauges
- accessories such as intake manifold, air detection elements etc. upon request

DIMENSIONS (in mm)

- 1200
- 1203
- 932
- 789
- 701
- 303
- 300