

Решения для защиты от курения и очистки воздуха, очистители воздуха, кабины для курения OUTDOOR LINE

Технические характеристики

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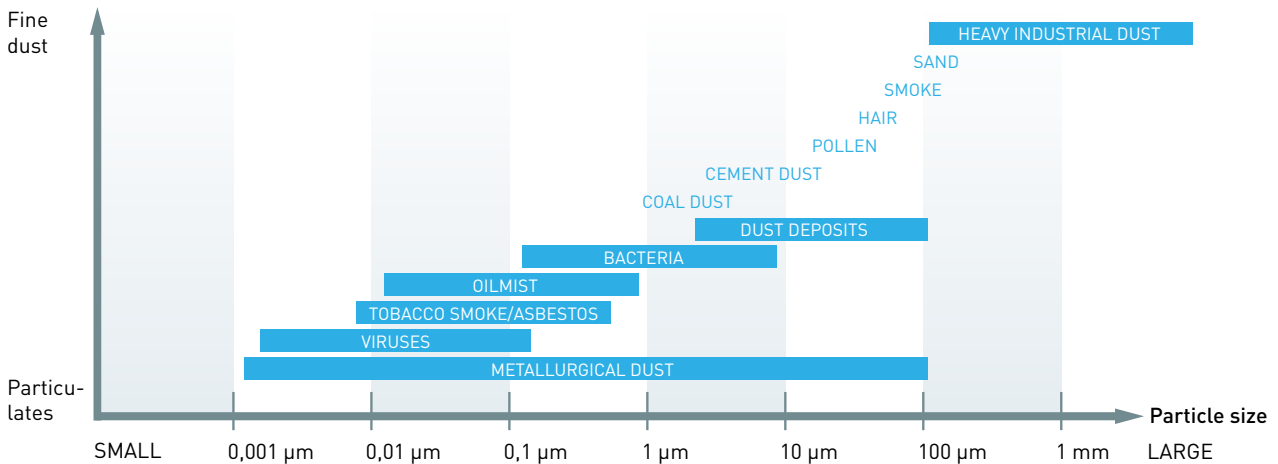
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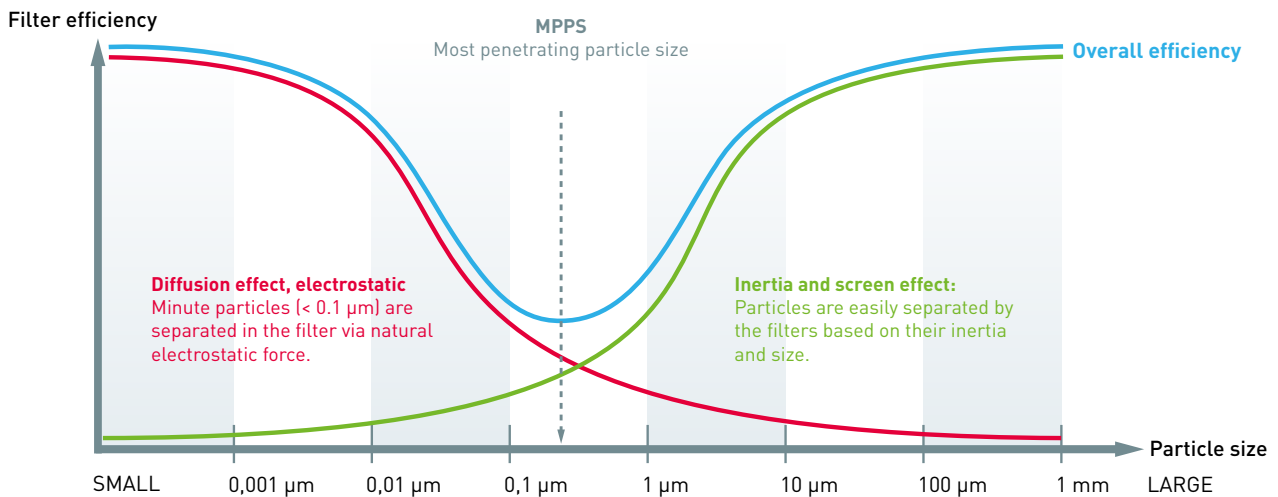
Technical air purification

When using air purifiers to remove fine dusts and particulates from the atmosphere, the correct filter must be used for the type and size of particles in question. How do fine dusts and particulates differ, and what kinds of filters can be used to clean dirty indoor air? This information will help you find answers to these questions.

Airborne particles come in different sizes:



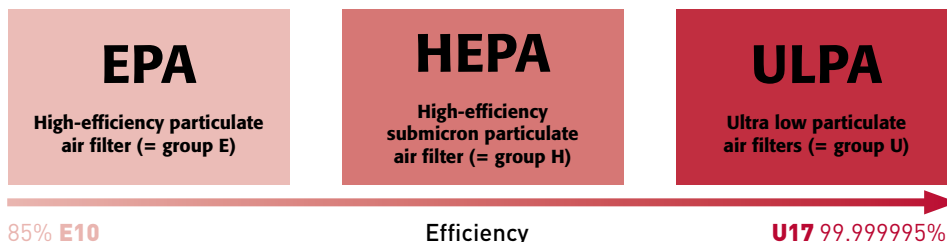
Basic filter technology principles



The most critical particles have a diameter of approx. 0,3 µm and are the most difficult to remove (technical term MPPS = Most Penetrating Particle Size). The MPPS serves as the basis for defining the efficiency of particle filters.



The filter classes are defined based on the efficiency of separating MPPS. In Europe, particulate air filters are differentiated into **three groups**:



Overview of filter classes, incl. relevant degree of efficiency:

Filterklassen	Integral value Average value over the entire filter surface		Local value Point value at the weakest part of the filter	
	Efficiency (%)	Penetration (%)	Efficiency (%)	Penetration (%)
E10	≥ 85	≤ 15		
E11	≥ 95	≤ 5		
E12	≥ 99.5	≤ 0.5		
H13	≥ 99.95	≤ 0.05	≥ 99.75	≤ 0.25
H14	≥ 99.995	≤ 0.005	≥ 99.975	≤ 0.025
U15	≥ 99.9995	≤ 0.0005	≥ 99.9975	≤ 0.0025
U16	≥ 99.99995	≤ 0.00005	≥ 99.99975	≤ 0.00025
U17	≥ 99.999995	≤ 0.000005	≥ 99.99999	≤ 0.0001

Efficiency: Percentage of particles separated / penetration: Percentage of particles that pass through the filter

What makes a tested HEPA H14 filter according to EN 1822 so safe?

Construction

- »» The filter medium is sealed leak-free in a stable frame, e.g. made of medium-density fibreboard. The filter offers dimensional stability and a circumferential, closed seal, so that all particles must flow through the filter medium in order to be reliably captured.
- »» High-performance filter materials are used, which offer the following advantages (using an ePTFE membrane as an example):
 - »» High retention capacity due to large filter surface area
 - »» Long service life
 - »» High intake capacity
 - »» Withstands mechanical stress in all operating phases of the air purifier
 - »» Stability
 - »» ePTFE material, thanks to its composition and deep folding, allows for lower pressure losses and thus higher air flow rate
 - »» High energy efficiency
 - »» High efficiency



Testing & Classification

- »» There is a labelling requirement for each filter which includes the following:
 - »» Manufacturer's name, type and serial number of the filter
 - »» Reference to the test standard EN 1822
 - »» Filter class
 - »» Nominal volume flow
- »» For each filter, an individual test certificate/test protocol shall be provided to prove the separation efficiency and the standard-compliant test including filter medium and test parameters.
- »» Each individual filter shall be subjected to the test procedure according to EN 1822. In the individual test
 - »» the particle size in the separation efficiency minimum of the filter is determined,
 - »» the absence of leakage at nominal volume flow is verified (reference scan method or oil filament test),
 - »» and with the help of the test aerosol (≙ suspended particles in MPPS – Most Penetrating Particle Size) the filtration efficiency of ≥ 99.95 % or 99.995 % is determined.

asecos is one of the world's leading manufacturers of safety cabinets for storing flammable hazardous materials and compressed gases in accordance with EN 14470 part 1 and part 2. Since it was founded in 1994, asecos has been successfully focused on researching and developing products to safely extract and store hazardous materials. "Technical air purification concepts" have now been added to the company product range, with smoking cabins and air purifiers. In its development of high-performance systems for extracting and filtering cigarette smoke and air contaminated with pollutants and pathogens, asecos has employed its many years of expertise in hazardous materials extraction technology.

Please observe local legislation and regulations.





AIR PURIFIERS

Improvement of the air quality in the entire installation room

Viruses and other microorganisms are transmitted via very fine airborne liquid particles - the aerosols. These can also hover in the air for a long time and survive. This increases the risk of infection in inadequately ventilated indoor spaces. Therefore, the effective ventilation of rooms is a high priority in hygiene concepts in order to counteract an increased concentration of pollutants.

However, the cold season and spatial conditions can make natural ventilation difficult. **In these situations, the use of air purifiers can significantly reduce virus and pollutant loads in the room air.**

In the long run, air purifiers only offer an efficient result if the filters used are replaced at regular intervals according to the electronic display.



Technical air purification



DESIGN LINE

SMOKING CABINS FOR INDOOR AND OUTDOOR AREAS

Our smoking cabins for indoor and outdoor use offer solutions for the harmonious coexistence of non-smokers and smokers. This is a long-term and good investment for satisfied and motivated employees.

Tested technology for maximum protection

Behind the smoke & talk smoking cabins is a proven system for capturing smoke: tobacco smoke is completely captured and extracted instantly through the finely perforated ceiling by the quiet but powerful exhaust air unit. The fresh air curtain in the entrance area holds the cigarette smoke back, allowing an open and friendly cabin design. Not only that – even the ashtray modules are connected to the extraction system so that accumulated cigarette smoke cannot escape again from the ashtrays. Tobacco smoke is thus captured directly where it's generated.

A 5-step filter system reliably retains the pollutants. The filtered, clean air is returned to the environment. A positive side effect is that the air quality in the entire room is improved.

The smoking cabins of the OUTDOOR LINE for outdoor areas create a comfortable alternative to smoking rooms – without completely banning smoking. The outdoor cabins offer employees protection from all weather conditions and thus reduce the risk of illness.



OUTDOOR LINE



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