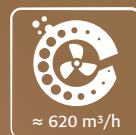
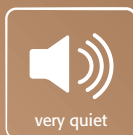




asecos[®]

PURIFI AIR.620

Air purifier to reduce indoor viral loads and pollutant levels
with multi-component filter system



PURIFI AIR.620

Improve your hygiene concept with the PURIFI AIR.620

Viruses and other microorganisms are transmitted via extremely fine airborne liquid droplets, called aerosols. These can float and survive in the air even for long periods of time. There is an increased risk of infection in poorly ventilated indoor areas. Therefore, effective room ventilation is a high priority in hygiene concepts, in order to counteract elevated concentrations of hazardous materials. However, room characteristics and winter weather can make natural ventilation more difficult.

Using an asecos PURIFI AIR.620 can significantly reduce viral loads and pollution in indoor areas. Fresh air must be supplied to the rooms via natural or technical ventilation.

The PURIFI AIR.620 offers the following advantages:

- »» The mobile design allows the purifier to be used flexibly in different areas of the building.
- »» The built-in PM1.0 sensor and colour display allow users to quickly identify and easily read off the particle concentration in the indoor atmosphere in four levels (green/low to red/high concentration).
- »» PURIFI AIR.620 stand out for their high-quality materials and robust design.
- »» Large filter units ensure a long service life. The purifiers have low energy requirements, resulting in low usage costs.



Air purifiers should not be considered a substitute for a fresh air supply.



Over time, they only deliver efficient results if the filter is replaced at regular intervals according to the electronic display.



Air purifiers can be used in a wide range of different areas.



PURIFI AIR.620

- »» Every PURIFI AIR.620 handles a volume flow rate of 180 to 620 m³/h (5 operating levels) and is suitable for approx. 100 m³ room volume (corresponding to a surface area of 40 m² and a room height of 2.5 m). A larger number of devices should be used in larger rooms. Our Sales team is happy to help determine the optimal number of air purifiers for a specific application.
- »» The built-in combination of pre-filters, a combi filter and H14 HEPA filter in accordance with EN 1822 has an efficiency of up to 99.995 % while keeping out particles from 0.1 to 0.3 µm in size.
- »» H14 HEPA filters are used in areas where protection against infection plays a key role.

i • The coronavirus is approx. 0.12–0.16 µm in size, which is within the effective range of an H14 filter in accordance with EN 1822.

• Therefore, H14 filters can reliably capture the SARS-CoV-2 virus.

• The SARS-CoV-2 virus survives less than 24 hours in a HEPA filter, as shown in current studies.

What does H14 mean? Detailed technical information is provided on the following page.

Other features of the air purifier:

- »» Removes mould spores, pollen and allergens, halts germs and bacteria and neutralises them
- »» Removes unpleasant odours and harmful gases from indoor air
- »» Continuous filtration of fine dust particles



TECHNICAL DATA

Model	PURIFI AIR.620 *		
Nominal voltage	220 – 240 V~		
Rated frequency	50/60 Hz		
Rated power (5 level)	Sleep mode 5.5 W to turbo mode 40 W		
Noise level (1 m distance)		Ideal conditions ¹	Real conditions ²
	1st stage (Sleep)	26 dB(A)	approx. 28 dB(A)
	2nd stage	34 dB(A)	approx. 38 dB(A)
	3rd stage	43 dB(A)	approx. 47 dB(A)
	4th stage	47 dB(A)	approx. 50 dB(A)
	5th stage (Turbo)	48 dB(A)	approx. 51 dB(A)
Quantity of purified air (CADR)	≈ 620 m ³ /h in full load operation		
Net weight	14 kg		
Product dimensions (W x D x H)	400 x 400 x 669 mm		

FILTER TECHNOLOGY

Dual suction air purifier with multi-component filter unit consisting of:

- **Metal mesh pre-filter** for separating coarse dust, to lower the load on downstream stages of filtration
- **G4 pre-filter** for separating coarse contamination, extends the service life of the filter (particle size > 10 µm, such as pollen, spores, fibres, hairs, insects, etc.) and to protect the downstream stages of filtration
- **Combi filter with an efficiency ≥ 85%**, to separate medium-size particles (particle size > 0.3 µm, including bacteria, germs, etc.)
- **HEPA filter, filter class H14 in accordance with EN 1822** to separate micro and nanoparticles with an efficiency of up to 99.995% (MPPS, such as viruses and germs)
- **Activated carbon filter** adsorbs unpleasant odours and gaseous pollutants

An electronic display informs the user when the filter needs to be replaced.



* The scope of delivery includes the air purifier with remote control, as well as an initial multi-component filter unit

¹ Measurement in an idealised environment, similar to an anechoic room

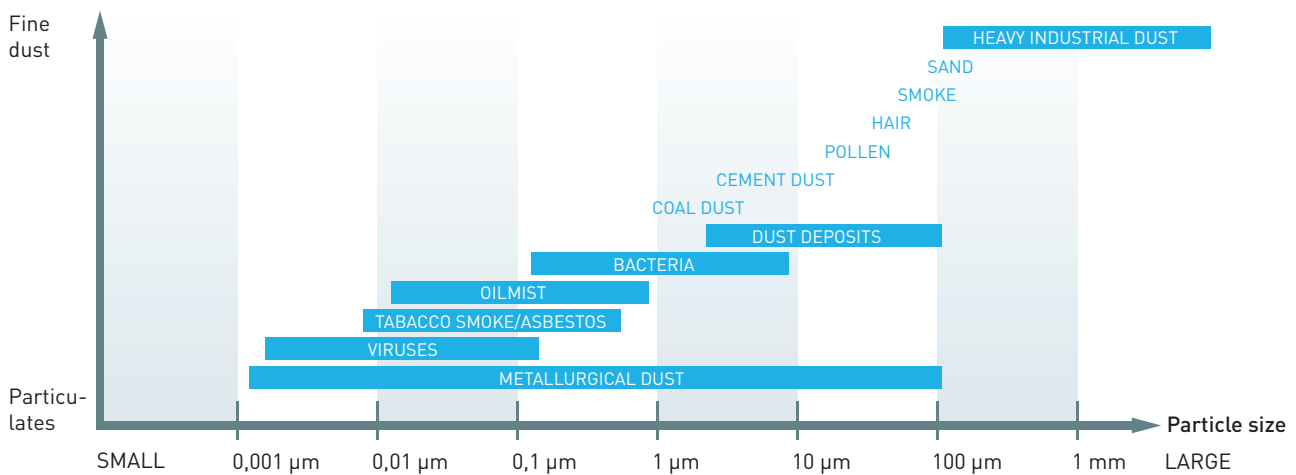
² Measurement in a realistic environment, e.g. office (the measured values deviate depending on the room conditions)

Professional expertise

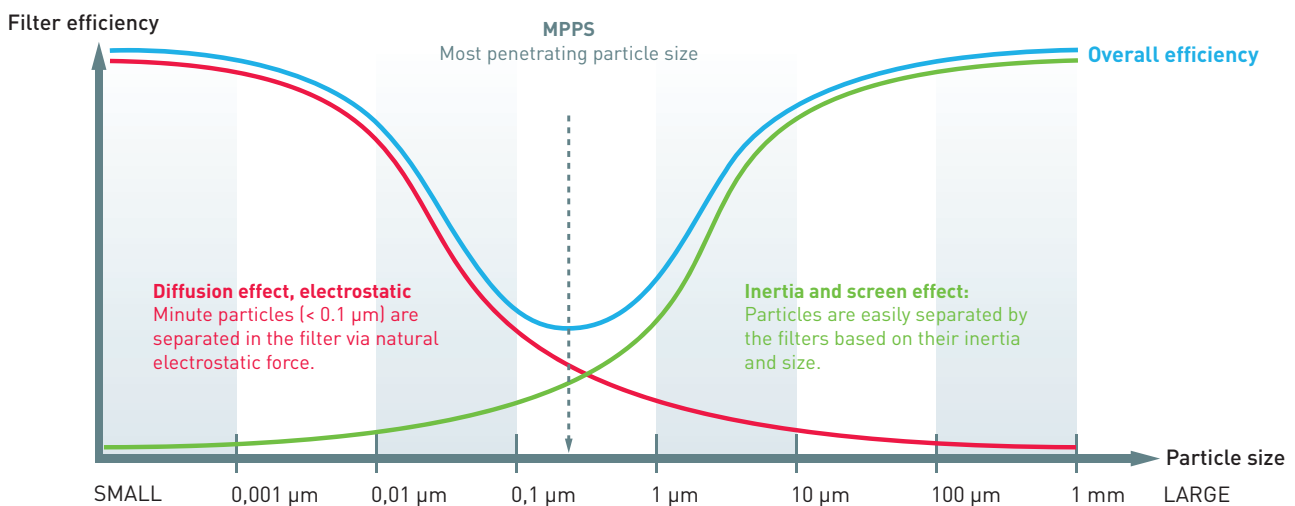
To use air purifiers to remove fine dusts and particulates from the atmosphere, the correct filter must be used for the type and size of particles in question. How do fine dusts and particulates differ, and what kinds of filters can be used to clean dirty indoor air? This information will help you find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

If you have further technical questions on basic filter technology, our experts will be happy to help. Contact us at info@asecos.com or +49 6051 9220-0.

Airborne particles come in different sizes:

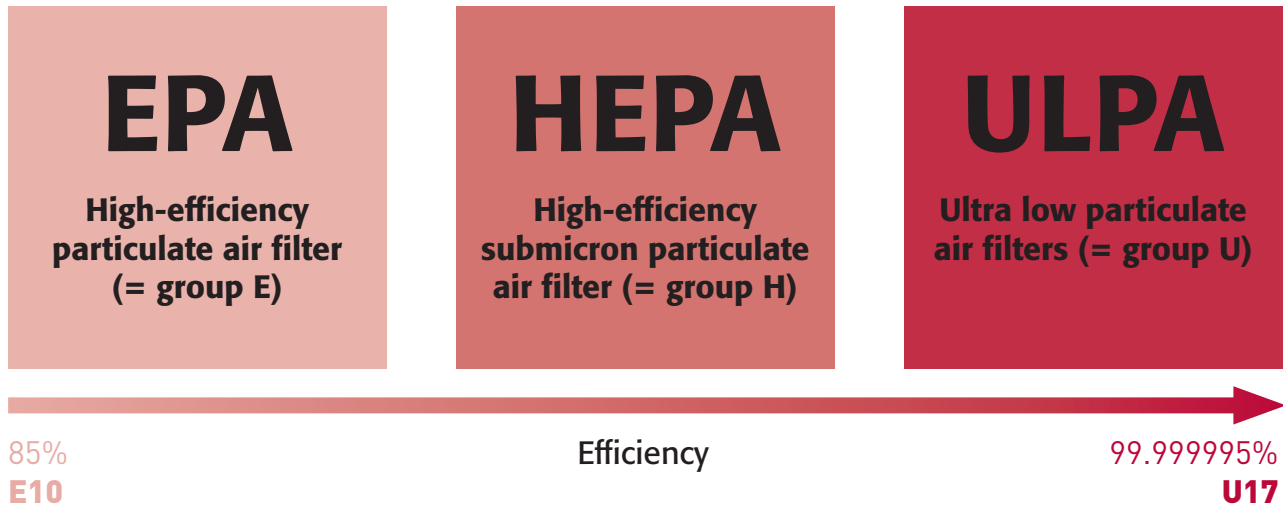


Basic filter technology principles



i 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:

Filter classes	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	≥ 99.9999	≤ 0.0001

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

! **The coronavirus** is approx. 0.12 – 0.16 µm in size, which is within the effective range of an H14 filter in accordance with EN 1822.

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.

Are you interested in asecos air purifiers, and need further information? From air purifiers for use in private homes to industrial applications, we offer products to meet your needs.

Contact our experts at info@asecos.com or **+49 6051 9220-0**. We will be happy to help!



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