

HEPA Filter air purifier KA-520

Data Sheet

Description

The Class H14 HEPA filter plates used consisting of high-grade filter media, fixed together with spacers made of hot melt (adhesive) to form a stable, flow-optimised package. This is connected to the frame particle-tight. The position of the filter is independent of its position.



At a glance

Frame material	› MDF
Seal	› Flat profile or foamed
Filter class in compliance with DIN EN 1822:2011	› H14
Degree of separation (MPPS)	› > 99.995 %
Maximum operating temperature	› 80°C
Maximum relative humidity	› 100%
Fire behaviour in accordance with EN 53438	› F1
Nominal volumetric flow range	› up to 700 m³/h per filter

Effectiveness

The class of a particulate filter is rated according to its MPPS (Most Penetrated Particle Size). This is the diameter of the particles that penetrate through the filter "most easily". All other particle sizes, whether smaller or larger, are separated more easily. The degree of separation of a filter class, e.g. 99.995 % for H14, relates to the MPPS. Therefore all other particles are separated better and, in the worst case, always up to 99.995 %. From the perspective of a filter, aerosols, viruses, bacteria, rust, water etc. are also regarded as particles, like all others. Once separated, not even viruses are released again. Class H14 HEPA filters are therefore outstanding for the almost complete purification of air of particles, viruses and other aerosols. The degree of separation is higher than 99.995 % of all aerosols.

The separation efficiency is determined locally and also integrally by means of a laser particle counter to classify the filters as class H14 according to DIN EN 1822.

Testing

Following manufacture of the filter, all filters (100% testing) are tested and confirmed to be compliant with DIN EN 1822.