Press Release: ***The IQAir HealthPro is Now Tested and Certified for the World's Smallest Particles!***

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IQAir just doesn't meet the HEPA standard – they exceed it. The IQAir HealthPro is the world's first air cleaner to pass the world's most stringent HEPA filter test: EN 1822. This test certifies a filter's absolute minimum efficiency for all particles. The efficiency of HEPA filters has been traditionally measured at 0.3 microns. However, over 90% of all airborne particles found in homes and offices are smaller.

Most air cleaner manufacturers make no performance claims for these important tiny particles. That's because the current 0.3 micron DOP test for particulate filters was developed in the 1950s. While it gives some performance guidelines for the efficiency of particulate filters, it does not tell us anything about which particles the filter is least efficient at filtering. While a HEPA filter may filter out 99.97% of particles at 0.3 microns, it may filter significantly less at smaller particle sizes.

The EN (European Norm) 1822 is a two part test, which identifies the particle size that penetrates the HEPA filter most easily, hence the name MPPS (Most Penetrating Particle Size). EN 1822, which was released in the year 2000 is world's most advanced and stringent air filter standard for particulate filters. Many high-tech manufacturers such as Intel already require their filter suppliers to supply them with EN 1822 certification.

The first part of the test determines which particles penetrate most easily through the HEPA media. Since the efficiency is strongly correlated to the speed with which the air passes through the media, this is done exactly at present speed - under actual conditions of use. When the most penetrating particle size has been determined (e.g. 0.16 microns for the IQAir HyperHEPA filter), this information is used in the second part of the test.

Part 2 of the EN 1822 test uses a test rig in which the HEPA filter is challenged only particles of the most penetrating particle size (e.g. 0.16 microns). This creates an absolutely worst case scenario for the filter.

IQAir's HyperHEPA filters are currently the world's first filters in an air cleaner to have been type-tested inside the IQAir housing by an independent filter testing laboratory (Filtech Laboratories Switzerland). IQAir's HyperHEPA filter was rated at a worst case efficiency of > 99.95% for airflow rates up to 190 m3/h (112 cfm) and > 99.5% for up to 475 m3/h (280 cfm).

While the efficiency at 0.3 micron gives some indication of filter efficiency for particles it doesn't give you a worst case performance scenario. IQAir is at the current edge in determining this for its air cleaners. Independent testing has determined that the absolute worst case efficiency at any particles size is better than 99.5% for speeds 4, 5 and 6 and 99.95% for speeds 1, 2 and 3. As a result, the HealthPro captures up to 100 times more particles that conventional HEPA air cleaners.