Press release

Coronavirus: More security through newly developed protective mask testing device

The Palas respiratory mask filter test rig PMFT 1000 allows a reliable control of the filter performance and enhances quality assurance

Karlsruhe, Germany, March 09, 2020 - The current spread of the new corona virus CoVid-19 is leading to a massive increase in demand for respiratory masks worldwide. Manufacturers of filter media and respiratory masks are increasing their production capacities to the maximum. However, reliable protection is only offered by masks that have undergone special tests during production. To support manufacturers, Palas has introduced the newly developed PMFT 1000 respiratory mask filter test rig, which enables both quality assurance in production and product improvement in the development department.

A special advantage of the PMFT 1000 from Palas compared to other filter test rigs is the exact representation of the separation per size class of the particles "Especially regarding the effectiveness of the breathing masks for the corona virus, which is only 120 nm – 160 nm small, such an exact measurement of the particle size distribution is essential", says Dr. Maximilian Weiß, CEO of Palas GmbH. Test rigs of other manufacturers often only measure the efficiency values at a predefined particle size of e.g. 200 nm and thus cannot check the effectiveness of the masks against this virus.

"With our newly developed test rig, we additionally respond to the needs of our customers who can use our products for their research and development in the long term even after the reduction of production capacities", says the Managing Director Sales of Palas GmbH Dr. Daniel Auer.

The PMFT 1000 is produced at the headquarters of Palas GmbH in Karlsruhe with an individual adapter for the exact fitting of the respiratory mask. "Despite this very complex customer-specific production method, we ensure the short-term availability of the test rigs by prefabrication of the high-quality components and flexible production processes, because our customers need these test rigs as soon as possible", explains Markus Herrmann, production manager of the Palas GmbH.

About Palas GmbH:
Palas GmbH (www.palas.de) is a leading developer and manufacturer of high-precision instruments for the generation, measurement and characterization of particles in air. With numerous active patents, Palas® develops technologically leading and certified fine dust and nanoparticle analyzers, aerosol spectrometers, generators and sensors as well as related systems and software solutions. Palas® was founded in 1983 and employs around 70 people at its headquarters in Karlsruhe.

Palas has established a worldwide reputation for the certified fine dust measurement within the scope of environmental monitoring and has been one of the most important industrial partners regarding filter and filter media testing for manufacturers and equipment suppliers worldwide for decades. Thus, Palas makes an important contribution to the improvement of indoor and outdoor air worldwide.

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