

Test Certificate

Efficiency of the air purifier “BerlinerLuft. Pure” with regard to virus inactivation, filter performance and by-product concentration

Research department: Environment, Hygiene, and Sensor Technology

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Test object: Air purifier “BerlinerLuft. Pure”

Manufacturer: BerlinerLuft. Technik GmbH

In der Kolling 220

66450 Bexbach

Germany

Bericht No.: UHS-025/2021, UHS-026/2021, UHS-027/2021

The tests have proven that the air purifier “BerlinerLuft. Pure” described in the test report No. UHS-025/2021, UHS-026/2021, UHS-027/2021 has a total deposition efficiency of 99.4 % for an ePM1 80 % filter at an air flow of 1600 m³/h for viruses with a minimum particle size of 85 nm. The calculated inactivation rate of the UV-C lamps used, Type HNS L95W2G11 (Osram), in relation to the radiation field and the volume flow, is 99.9 % for corona viruses.

The analysis carried out in accordance with the specifications of the Federal Environment Agency (Umweltbundesamt, UBA) also showed that no harmful by-products (VOCs, aldehydes, ketones) are formed in the air purifier. Ozone emissions are below 2 µg/m³, corresponding to merely 1.7 % of the upper limit of 120 µg/m³ stipulated by the German Federal Immission Control Act (Bundes-Immissionsschutzgesetz).