

Press release

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TBH filter and extraction systems

Corona viruses: More safety due to filter and extraction systems

STRAUBENHARDT – In many aspects, reliable information about the corona virus (SARS-CoV-2) is still limited or not available. These days, scientists run studies for getting proper understandings of the virus. For example, studies by researchers from the US National Institutes of Health¹ found out that the virus is not only transmitted by droplet infection, it also gets into the air with a fine mist of moisture when exhaled. Therefore, healthy people could inhale it. According to previous studies, viruses can float in these very small aerosol droplets in the air for up to 3 hours, while the pathogens remain infectious. If this aerosol settles on surfaces, viruses could remain viable for even longer (up to 4 hours on copper, up to 24 hours on cardboard and up to 2 or 3 days on plastic and stainless steel²). However, experts advise against premature conclusions, since such studies usually take place under laboratory conditions and the evidence in reality is still pending. In order to minimize the possible risk of contact with the SARS-CoV-2 virus due to airborne viruses, air filtration can be helpful, because it reduces the amount of viruses in the air significantly.

It is a fact that SARS-CoV-2 is more contagious than the seasonal flu³. Since many infected people show little or no symptoms, the virus is predicted to stay viable for a long time. It is even possible that it can occur again in a weakened form like the seasonal flu⁴. Right now, and after the end of the pandemic, effective protection against bacteria and viruses in the ambient air of certain areas is important. Masks can help to a certain degree, assumed people wear them correctly. The use of a TBH filter and extraction system can ensure to minimize viral pollution in the ambient air more easily and effectively. The combination of mask and extraction system provides the highest level of protection, especially in the medical workplace.

TBH filter and extraction systems extract the polluted air out of the room or during a medical treatment. The corona viruses stick to its integrated filters. The systems prevent the viruses from being distributed and deposited on surfaces. Setting up a protective screen protects nursing staff, doctors and patients even better against infections caused by aerosols in the air. The screen directs the airflow into the area between doctor and patient, which leads to a more effective, because direct extraction.

Further information:

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¹ Laboratory of Virology, Division of Intramural Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, USA and the Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ, USA.

² Aerosol and surface stability of HCoV-19 (SARS-CoV-2) compared to SARS-CoV-1 by Neeltje van Doremalen, Trenton Bushmaker, Dylan H. Morris, Myndi G. Holbrook, Amandine, Gamble, Brandi N. Williamson, Azaibi Tamin, Jennifer L. Harcourt, Natalie J. Thornburg, Susan I., Gerber, James O. Lloyd-Smith, Emmie de Wit, Vincent J. Munster

³ <https://www.republik.ch/2020/03/09/wie-enden-epidemien>

⁴ <https://www.republik.ch/2020/03/09/wie-enden-epidemien>



Caption: *Filter and extraction systems by TBH filtrate Corona viruses from the air.*

Since 1992, TBH has been designing a healthy workplace environment free of harmful gases, foreign matter and dust. Our filter and extraction systems are used in a wide variety of production processes to protect people, the environment and the machinery. The products meet the highest quality standards and are certified with the required test seals in the industrial and medical sectors. Whether standard or individual needs, we have the right solution for every extraction or filter requirement - worldwide.

You can also access this press release from the Internet at:

<https://www.tbh.eu/en/news-events/press.html>

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