

## Virus disinfection with UV-C light makes seminars safer Case study of air purification in training rooms at Swagelok Frankfurt

Viruses, bacteria and other microorganisms spread through the air in tiny droplets of water known as aerosols. They can survive there for a long time and easily spread from host to host. The risk is particularly high in rooms where many people are present, such as conference rooms or offices. Often, the situation is aggravated by the fact that these rooms cannot be well ventilated or that there is no central ventilation. Especially in winter, ventilation is also unpleasant: ideal conditions for viruses.

UV-C light is very effective against viruses, bacteria and fungi. UV-C light easily destroys the SARS-CoV-2 virus and its mutations, because they have only a thin lipid (fat) layer which UV-C light easily penetrates to destroy the virus immediately.

Seminars, conferences and technical training courses are often events that cannot always be replaced equally by digital alternatives. Especially with hands-on training, the topics of air quality and safety play an important role. Air purification and especially sterilization devices provide a reliable technical solution.

As a knowledge partner for fluid technology, Swagelok Frankfurt places the highest value on the qualified training of its customers. Therefore, to enable safe application, the technical solutions are often explained hands-on.

**"The air cleaning devices from Heraeus, now enable us to offer in-house seminars again," Holger Eickert, Managing Director of Swagelok Frankfurt, is pleased to say. "Without further ado, we built a wall-mounted device on a mobile construction and can use our disinfection device on a mobile basis in our training rooms. Our customers are pleased that we are taking additional measures to be able to conduct trainings without worries again."**



For the first time the renowned Fraunhofer Institute for Building Physics (FBP) confirmed the effectiveness of air disinfection with a self-contained UV-C air purification device. Using a sophisticated scientific test to simulate real classroom conditions FBP verified Heraeus UV-C air purification devices can reduce the virus load in closed rooms by over 99%. Additional tests with the Hygiene Institute biotec and the University Hospital in Tübingen, also confirmed the disinfecting capability of UV-C light.



### Advantages of UV-C disinfection with Heraeus Soluva equipment:

- ✓ Chemical-free
- ✓ Filter-free - no hazardous filter removal
- ✓ Low maintenance
- ✓ Environmentally friendly: no ozone or by-products
- ✓ Safe to use in occupied areas
- ✓ Germs can't build up resistance to UV-C