

Virus disinfection with UV-C light - so that dancing is safe

Case study of air purification in the Berné dance school

Viruses, bacteria and other microorganisms spread through tiny droplets of water in the air known as aerosols. They can survive there for a long time and spread from host to host. The risk is particularly high in rooms where many people are present, such as dance schools, fitness studios or exercise rooms. Further aggravating the situation is the fact that often these rooms are not well ventilated or have no central ventilation. Especially in winter, ventilation is also unpleasant: ideal conditions for viruses.

UV-C light is energy and 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.

Hip-hop, tango or line dance, dance students and enthusiasts are waiting to go to clubs or dance schools again. A virtual alternative does not replace in-person dancing, whether professional or leisure. Despite adherence to typical hygiene measures, dance schools can often only offer one-on-one lessons during pandemic times. Sufficient ventilation is often a problem. Air sterilization units can provide a remedy and ensure sufficient air exchange. The germ-contaminated air is sucked in, disinfected inside the device and released germ-free.



This reduces the risk of infection enormously and makes dancing safer. **Britt Harrington and Ute Berné, owners of the dance school Berné, rely on this UV-C technology. "We use the disinfection devices in the dance hall and in the bar area. This way, we can offer more safety to our participants and also to our team of trainers, and hopefully we will soon return to normal dance school operations," they say.**

For the first time the renowned Fraunhofer Institute for Building Physics (IBP) 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 IBP 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 air purification 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