

## Virus Disinfection with UV-C Light in Restaurants Upgrade of a ventilation system in event rooms

Viruses, bacteria and other microorganisms spread through tiny water droplets in the air, so-called aerosols. They can survive there for a long time and are transmitted from host to host. The risk is particularly high in rooms with ventilation systems. Air circulation with only a small proportion of fresh air increases the risk of infection - especially where many people come together, such as in restaurants or event rooms.

UV-C light is energy and very effective against viruses, bacteria and fungi. Viruses in particular, such as the SARS-CoV-2 virus and its mutations, are easily destroyed by it. They have only a thin lipid (fat) layer. This is easily penetrated by UV-C light and destroys the virus immediately.

The Zwei-Löwen-Klub zu Münster is one of the oldest and most traditional German social clubs. Its members, their families, friends and guests gather for various occasions in the clubhouse on Münster's Stadtpromenade. Its large ballroom, which can seat up to 300 people, is used for balls, social gatherings and festive dinners, as well as for cultural events, lectures and discussions.

The Corona pandemic also brought club life to a halt. The board of the club was therefore looking for technical solutions that would make it possible to hold Corona-compliant events in the clubhouse in complete safety for all participants. Those responsible quickly came across Heraeus Noblelight and equipped the air circulation system of the hall with a Soluva Air D. The system is equipped with UV lamps from Heraeus Noblelight. For this purpose, the Soluva units, which were precisely designed by the UV experts at Heraeus Noblelight, were fitted into the existing ventilation system.

The recirculating air system with integrated UV disinfection now provides additional protection alongside the usual hygiene measures - as heating in winter and ventilation in summer.

Dipl.-Ing. Architect Burkhard Röhm, who is responsible for the clubhouse as a member of the board of the Zwei Löwen Klub, emphasizes: "The health of our members and the guests of our clubhouse is our top priority. That's why we're pleased to be able to specifically protect them by upgrading the ventilation system."



The renowned Fraunhofer Institute for Building Physics has for the first time confirmed the effectiveness of air disinfection by means of closed UV-C air purification devices under real conditions for a classroom on the basis of an elaborate scientific application test. Heraeus UV-C air purification devices can reduce the virus load in closed rooms by over 99%.

The disinfecting effect of UV-C light has been confirmed in further tests, e.g. with the Hygiene institut biotec or the University Hospital Tübingen.

Advantages of UV-C air purification with Heraeus Soluva equipment:

- ✓ free from chemicals
- ✓ without filter
- ✓ low maintenance requirements
- ✓ without ozone and by-products
- ✓ no uncontrolled escape of UV-C-light
- ✓ no germ resistance formation

