Virus disinfection with UV-C light helps facility management

Case study of a surface disinfection that helps cleaning offices

Viruses, bacteria and other microorganisms spread through tiny water droplets in the air, so-called aerosols. They also fall on surfaces and can survive everywhere for a long time.The risk is particularly high in rooms with many people - such as waiting rooms, offices, conference rooms and other business premises.
UV-C light is energy and very effective against viruses, bacteria and fungi. Especially viruses, 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.

WISAG Facility Service Holding is one of the leading providers of facility services in Germany and a specialist in cleaning real estate. Since the Corona pandemic, customers have placed even greater emphasis on hygiene, and the company observed a huge increase in demand for disinfection of surfaces. Conventionally, this is done by wiping with disinfectant solutions. This wet disinfection reaches its limits when documents and stacks of paper are affected, but also with sensitive electronics, displays and switch surfaces.
In its search for innovative disinfection methods, WISAG contacted the UV experts at Heraeus Noblelight. After a demonstration of the UV disinfection, WISAG was convinced and the first Soluva handheld devices were ordered for use at customers and in the company's own branches. This makes WISAG the first company in facility management to use the innovative Soluva handheld devices on a large scale.
WISAG has put together disinfection cases which contain the Soluva handheld devices, the necessary protective equipment, UV test strips and also extra batteries and additional gloves and visors. The cleaning personnel receive training on the handling of the Soluva devices before the first use. In the field, surfaces in a freshly cleaned office can then simply be irradiated with UVC light by a Soluva handheld device. Within seconds, this reliably destroys germs in a workplace. A UV test strip helps to keep to the time required for this.
Christian Faupel, Technical Manager Operations at WISAG Gebäudereinigung, is convinced: "We have been focusing on sustainability in building cleaning for years, for example with environmentally friendly, ecologically degradable products. In the area of disinfection, however, there have been few ecological alternatives up to now. UVC disinfection is particularly innovative, as it helps to save disinfectants, protect our cleaning staff and reliably disinfect our customers' rooms."

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 disinfection 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

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