Virus disinfection with UV-C light in motor coaches

Fischer Bus Tours from Biebergemünd offers passengers additional protection

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 spread from person to person. The risk is particularly high in public transport vehicles - such as buses, trains, ships, and planes. Often, the situation is aggravated by the fact that these spaces cannot be well ventilated or not at all: ideal conditions for viruses.
UV-C light is very effective against viruses, bacteria, and fungi. Especially viruses, such as SARS-CoV-2 and its mutations which UV-C easily destroys. These viruses have only a thin lipid (fat) layer that the UV-C light easily penetrates and destroys the virus immediately.

Whether it's a vacation with friends or family, or a business corporate event, traveling via motorcoach is a carefree way to experience something new at any time of year! When traveling, many people come into contact with each other in a confined space over an extended period of time. Accordingly, bus, round-trip and city travelers are at a comparatively high risk of infection due to virus exposure. To minimize such risks, Fischer Bus Tours from Biebergemünd, Germany, sought technical solutions to increase safety in its buses. Soluva Air V represents a particularly reliable solution designed for the disinfection of air in vehicles. The vehicle's own ventilation system continuously circulates the cabin air. UV light inside the Soluva Air V immediately destroys viruses, bacteria, and other pathogens. Disinfection of the cabin air takes place continuously while the vehicle is on the move and ensures sufficient air exchange. The UV-C air purifiers simply mount onto the ceiling of the passenger cabin and are easy to retrofit into buses and trains.

"Protecting our passengers is our top priority, which is why we chose the UV-C air purifiers from Heraeus", said Horst Fischer, managing director of Fischer Bus Tours.

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 was also confirmed in further tests with the Hygiene Institut biotec and the University Hospital Tübingen..

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

- ✓ chemical free
- ✓ no filters
- ✓ low maintenance requirements
- ✓ no ozone or by-products
- ✓ no uncontrolled escape of UV-C-light
- ✓ viruses can't build up resistance to UV-C

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