

PHILIPS

UV-C disinfection
luminaires

Protecting school health in the new normal world





“On hearing our Government announcement about returning to school, I was happy, but also a little concerned. Happy because students could continue their schooling, so that it won't affect their exams or academic progress, but concerned about the health and safety of the staff and children, because the Covid-19 pandemic is still with us. After learning about the power of UV-C lighting and its ability to disinfect the air and inactivate bacteria and viruses, I discussed the idea of implementing UV-C technology in the school with other members of our Parent Association. We took the decision to coordinate with the 24-hour construction unit, and install three Philips UV-C upper air disinfection devices in the school's library area. This will ensure cleaner air flow, and deliver an added layer of protection throughout the child's learning environment.”

Representative of Parent Association

The challenge of returning to school

Currently, pupil health is one of the key issues that the Government, the school board, schools, and parents are particularly concerned about — especially as we enter the new normal period during the ongoing COVID-19 pandemic, when schools are allowed to open their doors to normal face-to-face teaching. In addition to worrying about the progress of their studies and exams, the health situation of students is also a top concern for parents, as the majority of students have not been fully vaccinated. Therefore, adding measures to provide a layer of protection in educational institutions has become an urgent goal, not only for the school board, but for parents as well.

Suitable disinfection solution

The recent spread of the COVID-19 pandemic has led school administrators, parents, and students to pay more attention to air disinfection methods aimed at inactivating bacteria, viruses, and pathogens.

After learning about UV-C light and the benefits of air disinfection, the Parent Association of Gifted High School students in Ho Chi Minh City decided to invest in three Philips UV-C upper air disinfection devices and install them in the library area of the school. This ensures disinfected air is continuously circulated throughout the student's learning environment. Installation of overhead air disinfection lamps with UV-C rays in this common space will help them protect their health and giving them peace of mind.



Scan the following QR code to learn more about specialized UV-C Disinfection solutions

“Upon learning that Philips UV-C upper air disinfection luminaires would be installed at the Gifted High School of Ho Chi Minh City National University, I thought the products would be big and bulky. I couldn't believe it when I received the image the product, and saw its compact design. Installation of the UV-C devices was very easy and there were no difficulties. I appreciate the application of the product, because it allows for continuous air disinfection — thanks to the design of the reflectors as well as lights — so students can study comfortably with added peace of mind.”

Mr. Nguyen Huu Minh Luan, Representative of 24-hour Maintenance Joint Stock Company





Case Study

The Gifted High School of Ho Chi Minh City

UV-C Disinfection devices

Philips UV-C upper air disinfection luminaires

Infectious diseases caused by bacteria and viruses are on the rise, seriously threatening human health. Philips UV-C disinfection solutions can play an important role in providing an additional layer of protection in the new normal world. Philips Lighting has more than 35 years of experience in UV-C lighting and giving people peace of mind when it comes to their health.



Optimized for overhead air disinfection

Philips UV-C upper air disinfection luminaires are mounted on the library's false ceiling. Designed with safety in mind, the UV-C disinfection works in a controlled area around the device — in the upper air of the room — allowing the disinfection process to be continuous, while the learning activities go on as normal.



Proven effectiveness

UV-C disinfection uses light to break down the chemical compounds in a micro-organism like bacteria, spores and viruses so they cannot multiply. It can be used to disinfect air, objects, water and surfaces — reducing the risk of infection — and has been widely used for more than 40 years¹.



Inactivation of viruses and bacteria

The results of experiments have shown that UV-C light effectively neutralizes viruses and bacteria².



Fast and efficient

In laboratory testing, the Philips UV-C disinfection upper air luminaires inactivated 99.99% of SARS-CoV-2, the virus responsible for the COVID-19 disease, in the air of a room within 10 minutes. At 20 minutes, the virus was below detectable levels³.

1. EPA Report, "Building Retrofits for Increased Protection Against Airborne Chemical and Biological Releases" Pg. 56.

2. Fluence (UV Dose) Required to Achieve Incremental Log Inactivation of Bacteria, Protozoa, Viruses and Algae Revised, updated and expanded by Adel Haji Malayeri, Madjid Mohseni, Bill Cairns and James R. Bolton. With earlier contributions by Gabriel Chevre Is (2006) and Eric Caron (2006), with peer review by Benoit Barbeau, Harold Wright (1999) and Karl G. Linden.

3. According to results obtained from a laboratory test conducted by Innovative Bioanalysis, a CAP, CLIA, AABB-Certified Safety Reference Laboratory, in a room with sufficient air circulation.



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