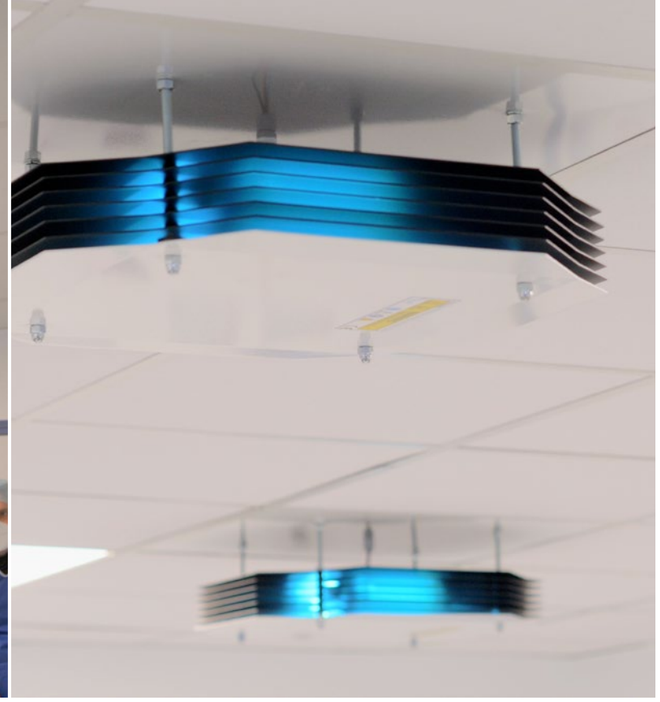
PHILIPS

UV-C lighting

Improving Vauban Clinic's air quality with the power of light



Case study

VAUBAN CLINIC

UV-C disinfection solutions

Philips UV-C disinfection upper air luminaires

UV-C plays a valuable part in your protection strategy during increased sensitivity to infectious diseases, including airborne diseases. Signify systematically and regularly checks that this installation conforms with all the standards currently in force.

> “Vauban Clinic has chosen a safe and proven solution with Philips UV-C luminaires to reduce the spread of all infectious and airborne diseases such as COVID-19. After a successful initial set-up in the waiting room for unscheduled consultations, we have chosen to equip all our consultation rooms to protect the patients who come to see us and the staff who work there.”
>
> **Nathalie Requier - Managing director clinique Vauban**

Customer challenge

Vauban Clinic is located near Paris in an area that has an active and intense cluster of COVID-19. Among the patients that come to the clinic are some who are suspected of having COVID-19. Protecting patients and staff is a major issue, which is why the clinic wanted to install UV-C disinfection luminaires in the rooms where patients are received.

Learn more at www.philips.com/uv-c

The right air disinfection solution

Philips UV-C disinfection upper air luminaires are a very efficient way to prevent airborne contaminations. Their operating principle is extremely simple; they continuously emit powerful UV-C rays in the upper part of the room, disinfecting the entire volume of air present in a matter of minutes using natural air convection.

Our Philips UV-C disinfection upper air wall mount 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 levels.[1]

Optimized for low ceilings

Philips UV-C disinfection upper air luminaires were installed in the waiting rooms and consultation rooms.

A proven solution

UV-C radiation is a known disinfectant for air, surfaces, objects and water that can help mitigate the risk of acquiring an infection and has been used extensively for more than 40 years.[2]

Deactivates tested pathogens

UV-C light has been proven to effectively deactivate tested pathogens.[3]

Fast and effective

In laboratory tests, our UV-C light sources inactivated 99% of SARS-CoV-2 virus on a surface with an exposure time of 6 seconds.[4]

1. 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.
2. EPA Report, “Building Retrofits for Increased Protection Against Airborne Chemical and Biological Releases” Pg. 56
3. 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 Chevrefils (2006) and Eric Caron (2006) With peer review by Benoit Barbeau, Harold Wright (1999) and Karl G. Linden
4. Data made available to us by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University, which has been collected from a laboratory experiment conducted by Dr. Anthony Griffiths (Associate Professor of Microbiology at Boston University School of Medicine) and his team at the premises of the NEIDL (such data will be the subject of a forthcoming scientific publication by Boston University), shows that Signify’s UV-C light sources irradiating the surface of a material inoculated with SARS-CoV-2 (the virus that causes the COVID-19 disease) at a UV-C dose of 5mJ/cm2 (exposure time 6 seconds) resulted in a 99% reduction of the SARS-CoV-2 virus present on that surface. This study determined that a UV-C dose of 22mJ/cm2 results in a reduction of 99.9999% of SARS-CoV-2 virus on that surface (exposure time 25 seconds). Research variables are available upon request.

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