

A photograph of a conference room with a large octagonal UV-C disinfection fixture mounted on the ceiling. The room features a grid ceiling with recessed lights, a large screen on the left wall, and several black chairs arranged around a table. Two framed paintings are on the right wall. The Philips logo and text are in the top left corner.

PHILIPS

UV-C disinfection

UV-C air disinfection
Mašinoprojekt Koprivica a.d.
Safe work for
employees and visitors
with UV-C light



Customer challenge

Normal life has changed due to preventive measures we have to take to protect ourselves from the present health crisis caused by Corona virus. Washing our hands frequently, keeping 1.5 meters distance from each other, avoiding direct contact are just some of the examples. The present health crisis caused by Corona virus affects activities in high-frequent rooms. Special concern is regarding the air that we breath indoors. That is the main reason why the managing board of Mašinoprojekt Koprivica a.d. has decided to apply Philips UV-C Upper Air luminaires in their conference room.

The solution

As the conference room is considered to be one of the rooms with the highest frequency, installing Philips UV-C Upper Air disinfection luminaires represents an ideal solution which provides additional safety and protection against pathogens. Philips UV-C Upper Air svetiljka the air that flows through the upper areas of the room thanks to natural convection, or air circulation. This also ensures that the disinfected air flows back to the lower part of the room and mixes with the air. The beam of UV-C rays is controlled by specific reflectors and the louvre design. This allows quiet disinfection of air while daily activities can continue safely. To date, no known pathogen is resistant to UV-C. Philips has 35 years of experience in UV-C lighting and strong application expertise.

UV-C disinfection upperair ceiling mounted

SM345C



Also available as a
wall-mounted version
WL345W



Optimized for low ceilings (minimum 2.5m)

UV-C rays are distributed at the height of the luminaire and above. The beam of UV-C rays is controlled by specific reflectors and the louvre design. This allows for the disinfection of the air in a room, while day-to-day business activities can continue underneath the area where the device is active. Philips PL-S TUV lamp included: 4x9 W.



Inactivates pathogens

Philips UV-C disinfection upper air luminaires inactivate up to 83.6% of SARS-CoV-2 virus in air after 2 minutes. After 10 minutes of exposure in the chamber there was a 99.99% reduction of collectable active pathogen in the air. The live SARS-CoV-2 virus was not detectable at the 20-minute timepoint². UV-C light has been shown to effectively inactivate the pathogens tested³.



Safety first

The luminaire emits UV-C rays in upper areas, at a safe distance from those walking below. Therefore, activities can continue while the luminaire is in operation⁴.



Respects the environment

No ozone emissions during or after use.

1. 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 Chevretil (2006) and Eric Caron (2006) With peer review by Benoit Barbeau, Harold Wright (1999) and Karl G. Linden
2. Results obtained from a laboratory test conducted by Innovative Bioanalysis, CAP, CLIA, AABB Certified Safety Reference Laboratory.
3. Reed, N.G. 2010. The History of Ultraviolet Germicidal Irradiation for Air Disinfection. Public Health Reports Jan-Feb, 125 (1): 15-27.
4. Philips UV-C Superior Air Disinfection Fixture should be sold and installed only by professionals in accordance with our strict safety and legal requirements set forth in the user manual and / or instructions assembly.



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