

UV-C disinfection

Additional protection for football players at Motherwell FC

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Philips UV-C disinfection upper air wall-mounted units help keep Motherwell FC players safe going on and off the pitch.





Philips UV-C disinfection upper air wall-mounted



Optimised for installation at 2.3+ metres

The UV-C rays are distributed at device level and above, allowing quiet disinfection of a large volume of air in the upper areas of a room while normal activity continues underneath the device's level.

Customer challenge

For athletes, staying at the peak of physical health is a way of life and top clubs take every measure possible to protect their players.

For Scottish Professional Football Club. Motherwell, keeping their first team healthy and at the top of their game is paramount. The club does everything it can to help protect players from the threat of COVID-19 today, and from any future threats.

Solution

In response to the pandemic, Signify's UV-C Partner, McCann Electrical, installed Philips UV-C disinfection upper air wall-mounted devices in the tunnel that the players use to go from their changing room, onto the pitch. The units are suspended on brackets from the ceiling, which disinfect the circulating air, offering an additional layer of protection.

About UV-C

UV-C is a proven effective technology for inactivating viruses and bacteria for air, water, and surfaces. The technology has been used

in hospitals, agriculture and water treatment for decades. Philips UV-C upper air luminaires have a peak radiation of 254 nm which is close to the peak wavelength for inactivating germs. UV-C lighting breaks down the DNA or RNA of micro-organisms, including that of viruses and bacteria, preventing them from reproducing and rendering them harmless.

Research conducted by Innovative Bioanalysis validates the effectiveness of UV-C disinfection upper air luminaires on the inactivation of SARS-CoV-2, the virus that causes COVID-19. The UV-C disinfection upper air luminaires inactivated 99.99% of SARS-CoV-2 in the air of a room¹ within 10 minutes, and the virus was below detectable levels at 20 minutes.²

This high position, in combination with the luminaires' design, allows the system to disinfect air as it circulates the room, even when there are people present. UV-C upper air luminaires disinfect continuously. Air flows to the upper layers of air by means of natural convection. Once it has been disinfected by the fixtures, it flows back down and mixes with lower air layers.³

Deactivates tested pathogens

UV-C light has been proven to effectively deactivate tested pathogens. Test results show that UV-C disinfection upper air luminaires inactivated 99.99% of SARS-COV-2 in the air of a room within 10 minutes.¹



Safety in mind

Radiates UV-C in the upper areas, where it does not reach people. As a result of this, normal activities can continue while the device is on.²



Environmentally friendly

No ozone emissions during or after use.

A note on safety

Any UV-C installation must meet important safety requirements. Always seek professional advice before you purchase. UV-C lighting should only be installed by UV-C installers.

- Learn more at www.philips.co.uk/uv-c

Case study Motherwell FC UV-C disinfection solution

1. Tests were conducted with Philips UV-C disinfection upper air wall mounted luminaire The overall dimensions of the test chamber were approximately 8'x8'x10', compliant with Biosafety Level 3 standards.

2. 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 ai circulation. For more information, please refer to the test report available here.

3. The germicidal effectiveness of UV-C light sources is proportional to the exposure time of the microorganism to the UV-C light source and the intensity of the UV-C light source. Therefore, sufficient air flow in the room (which may be achieved through forced air flow or natural convection) is required for effective operation of Signify's UV-C upper air disinfection luminaire solutions



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