



PHILIPS

Lighting

UV-C disinfection luminaires

Case Study

Top-tier protection for the stars of equestrian sport

Bourne Hill Stables creates a safer and healthier environment with Philips UV-C disinfection lighting



Philips UV-C disinfection upper air wall mounted

Case study

 Bourne Hill

 UV-C
 disinfection
 solution



“ The UK is rightly the global centre for the equine breeding sector. In 2017 PwC estimated that the thoroughbred breeding industry contributed £425 million to the UK economy and supported over 19,000 jobs.”

Roland Standley, Bourne Hill Stables

Project overview

The UK's Bourne Hill Stables is home to some of the strongest and healthiest horses in competitive sport. Keeping the animals in peak condition is core to raising fit and healthy horses who enjoy a high standard of living and compete at the highest levels.

Customer challenge

Like all animals, horses face a range of threats from viruses and other microorganisms that exist in their environment. When a disease risk arises, the horses can no longer compete and must be kept in isolation and out of the competitive circuit.

Most recently, an outbreak of the neurological form of equine herpes virus (EHV-1) has led to almost 4,000 horses being blocked on the Federation Equine International (FEI) database, meaning they must be kept in isolation and a negative PCR test provided before they are allowed to resume competition. This has led to the shutdown of international competition across 12 European countries. Reproductive EHV-1 is of particular concern to breeders as it can lead to foal deaths, with 28 cases reported in Europe to date. This outbreak comes in the wake of a major outbreak of equine flu, which can also have serious implications for horses and their owners.

Solution

After a consultation and assessment with Signify's UV-C Partner Powercor, Bourne Hill Stables opted to install 22 Philips UV-C disinfection upper-air wall-mounted units. Philips UV-C products use ultraviolet light to inactivate microorganisms like viruses and bacteria, rendering them harmless to humans and animals. UV-C disrupts the DNA or RNA that enables those viruses and bacteria to multiply. This technology has been used safely and effectively for more than 40 years.

The upper air wall-mounted UV-C devices used at Bourne Hill Stables make use of specific reflectors and optical design to create a controlled UV-C zone in the upper part of the stable's corridor. Air is continuously disinfected as it passes through the UV-C zone via natural convection, giving the horses and staff maximum protection. Normal day to day activities can continue in the stable below. The layout, height and design of the UV-C system was carefully planned to ensure that neither the horses or staff could be over-exposed to UV-C, and any low-level light spill from the units would not disturb the sleep patterns of the horses.



Optimised for low ceiling heights with a minimum of 2.5 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. Philips PL-S TUV lamp included 4x9 W.



Deactivates tested pathogens

UV-C light has been proven to effectively deactivate tested pathogens. Test results also 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

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

2. Philips UV-C disinfection upper air luminaire must only be sold and installed by professionals according to our stringent safety and legal requirements, set forth in the user manual and/or the mounting instructions.



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