

# In a post-covid world, never compromise on air quality



TECHNICAL SERVICES

## Mitie UVC Disinfection Systems

Combining our exceptional skills and expertise, Mitie have partnered with Luxibel, a global provider of UVC Disinfection Systems, to introduce cutting-edge air cleansing technology to support customers and enhance the safety assurance in properties.

Harmful bacteria, viruses and toxic gases are just some of the agents known to circulate indoors. But in offices, airports, shopping centres and public and private spaces, building users can breathe easy with Mitie's air disinfection technology.

The Luxibel UVC (Ultraviolet) purification lamp uses the latest technology to blitz a number of known airborne and surface contaminants, ensuring indoor air and surfaces are extensively disinfected, fresh and clean, maintaining peace of mind for colleagues, clients and guests alike.

This chemical-free innovation can be installed as a wall-mounted unit, concealed within existing vents or even disguised as a ceiling tile.

They help protect against airborne pathogens, creating a safer and more beneficial indoor environment with the power of light.

There are two options for UVC treatment:

- **Direct** – Surface disinfection
- **Indirect** – Air disinfection



UVc is recognised as an option for surface cleansing by HSE

### What are the benefits?



#### Chemical-free

UVC technology is environmentally friendly and leaves no chemical residue when used on surfaces, in water or in air.



#### Effective

UVC has been proven to be effective against waterborne and airborne pathogenic microorganisms and many other bacterial, viral and parasitic diseases.



#### Measurable

The disinfection effect is directly related to the UVC dose, so its effectiveness can be simply measured using on site indicators and sensors connected to our service operations centre.



#### Rapid result

UVC works rapidly and the effectiveness can be monitored with simple, visual guides.



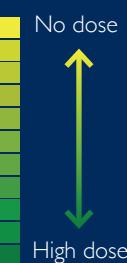
#### Low cost

UVC installations have low capital and operational cost and can be installed quickly with minimal disruption.

### Subtle, modern designs



### Safety in Sight



Added assurance to buildings' occupants will be provided in the form of UVC dosage display stickers, placed throughout work spaces, to demonstrate the continual UVC effectiveness taking place as they work.

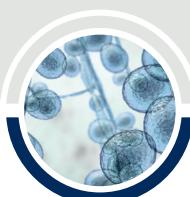
## Can UVC help prevent covid-19 transmission by reducing contamination?



Antibacteria



Antivirus



Antifungal



Anti-mould

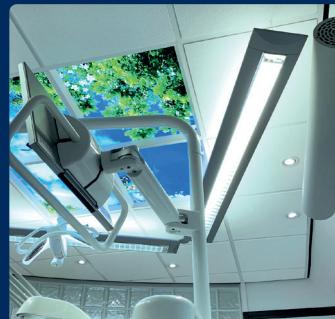
The International Ultraviolet Association (IUVA) believes that UVC disinfection technologies can play a role in a multiple barrier approach to reduce the transmission of the virus causing COVID-19, SARS-CoV-2 (L strain), based on current disinfection data and empirical evidence.

SARS-CoV-2 showed high susceptibility to UVC irradiation technology, when used correctly.

**"Our UVC offering will provide our clients and colleagues with reassurance that their working environments are safer, sanitised and more comfortable"**

Tony Chase - Head of Critical Engineering and Technical Assurance

## UVC Is applicable in all Public and Private Spaces Retail-Offices-Manufacturing -Airports-Hospitals



### How does it work?

Combining high energy and low wavelength eradication, Ultraviolet germicidal inactivation (UVGCI) technology provides an added layer of protection and assurance.

UVGCI is an extremely effective air cleansing technology used to reduce the levels of viruses and harmful airborne infections. HSE have recognised UVC as an option for surface cleansing. These can be fitted as direct or indirect systems.

### Direct sources (B Direct, B Hybrid and B Square)

The lamps will use their radial reach to treat airborne and waterborne particles, and surfaces. As an example, waterborne pathogens from coughs, splutters or sneezes will drop because of their weight and end up on a surface.

Direct sources have a huge range of applications in many sectors; examples include commercial, industrial, retail, transport, leisure, medical, educational and hospitality.

Direct sources require competent installation and a clear handover to a nominated individual. This is to ensure safe operation. Just as importantly, a poorly installed system would simply turn itself off when a safety device is triggered, so the planned treatment would not take place.

### Indirect sources (B-Air)

Indirect source will operate 24/7 as constant air sterilisation is completed within the unit so there is no UVC exposure externally to the unit.

These can operate within occupied areas. They can be installed where HVAC solutions might not be physically or commercially viable.

**For further information, please see our [brochure](#) or [our video](#)**

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**CASE STUDY****Offices Anyway Doors**

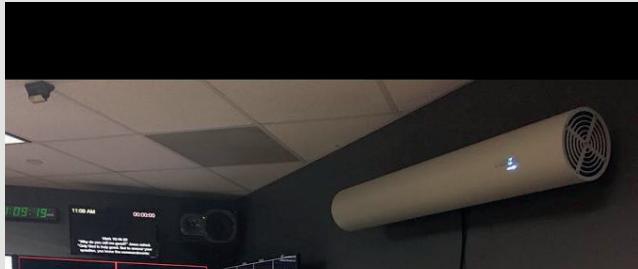
Installation of the Luxibel B Air V2 in the offices of Anyway Doors by Stage Unit

**B AIR V2** Indirect UVC air disinfection unit**CASE STUDY****HMK Bilcon A/S**

CEO Peter Jensby of HMK Bilcon A/S (a manufacturer of mobile solutions for the healthcare sector) has just invested in making the environment beneficial for his employees by having Luxibel B AIR V2 installed. His decision was based on a desire to provide a cleaner working environment once his employees were able to safely return to the workplace. At HMK Bilcon A/S in Gistrup, they now have Luxibel air disinfection systems in their meeting rooms, programming rooms and dressing rooms.

**B AIR V2** Indirect UVC air disinfection unit**CASE STUDY****Sine Sports School**

SINE is a sports school in Denmark where students like to play sport together after school hours. The school has installed Luxibel disinfection systems in the common areas to make sure this done in a safer way that helps to lower the risk of corona virus infection. The B AIR V2's ensure that the air is extensively disinfected and that students can again enjoy sport and relax together in a safer environment.

**B AIR V2** Indirect UVC air disinfection unit**CASE STUDY****Video Broadcast Control Room**

LightParts recently supplied Luxibel B Air V2 indirect UVC disinfection to The Fellowship of The Woodlands for their video broadcast control room. Robert Mokry of LightParts said, "Several of our customers have asked for UVC disinfection products that can be used in occupied spaces. The Illuminating Engineering Society (IES, est. 1906) paper that discusses application of UVC makes it clear that for occupied spaces, a desirable solution is indirect UVC". He went on to add "Once we investigated several indirect UVC products on the market, we determined the Luxibel B Air V2 is a great value – 110W of UVC power for a reasonable cost".

**B AIR V2 - 110V** Indirect UVC air disinfection unit