



LoBact Maxi Air Tunnel

Operation and installation manual

**READ THIS MANUAL IN FULL BEFORE
INSTALLING THIS PRODUCT**

OPERATION AND INSTALLATION MANUAL

Description

The Maxi Air Tunnel is an air treatment device which uses ultraviolet light in the C band (UVC) to disable microorganisms. Thanks to its rigid construction

and stainless steel materials, the Air tunnel is ideal for use in the food industry eg. chiller room disinfection.

Package contents:

1 x Air Tunnel
1 x Product Manual

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The Maxi Air Tunnel is designed to be installed horizontally in front of the cooler fan so that air which flows through the unit is treated with UVC light and is disinfected.

The Maxi Air Tunnel must be at least 3m high and interlocked with the door to ensure that the unit only operates when no person is present in the room. For rooms with a lower ceiling, a light guard must be fitted.

DO NOT HANDLE THE LAMPS WITHOUT GLOVES AS GREASE WILL REDUCE THE LIFE OF THE LAMPS.

The UVC lamps are fragile and for shipping purposes are securely packed. Prior to installing the unit, carefully place the Air Tunnel on a clean surface and mount both UVC lamps by fixing each of them into a lamp clip and then gently pushing

the lamp base into the lamp holder (see section Service and Maintenance for illustration).

The Air Tunnel is supplied with a 2m cable. Once the unit is fitted on the ceiling adjacent to the cooler fan, electrically connect the unit and interlock with the door.

Operation

The Maxi Air Tunnel does not produce any ozone, harmful particles or odours. When the Air Tunnel is operating for the very first time, you may notice a change of smell in the treated room. This is normal and it is one of the indicators that the unit is working properly. The initial smell emitted by the unit normally subsides within 12 hours of operation after the installation.

Service and Maintenance

WARNING - HARMFUL ULTRAVIOLET LIGHT!

THE AIR TUNNEL SHOULD NEVER BE OPERATED OR TESTED WITHOUT THE COVER SECURELY FITTED

In applications where the Maxi Air Tunnel is used continuously, the UVC lamps should be replaced after 1 year of operation in order to maintain good levels of disinfection. If the Air Tunnel is operated 8 hours a day, 5 days a week, the UVC lamps should be replaced after approximately 4 years of service. Please note that excessive switching will reduce the life of the lamps. In any case, replace the lamps when there is any evidence of microbial contamination.

It is recommended to carry out simple maintenance on a 6-month basis to ensure prolonged operation.

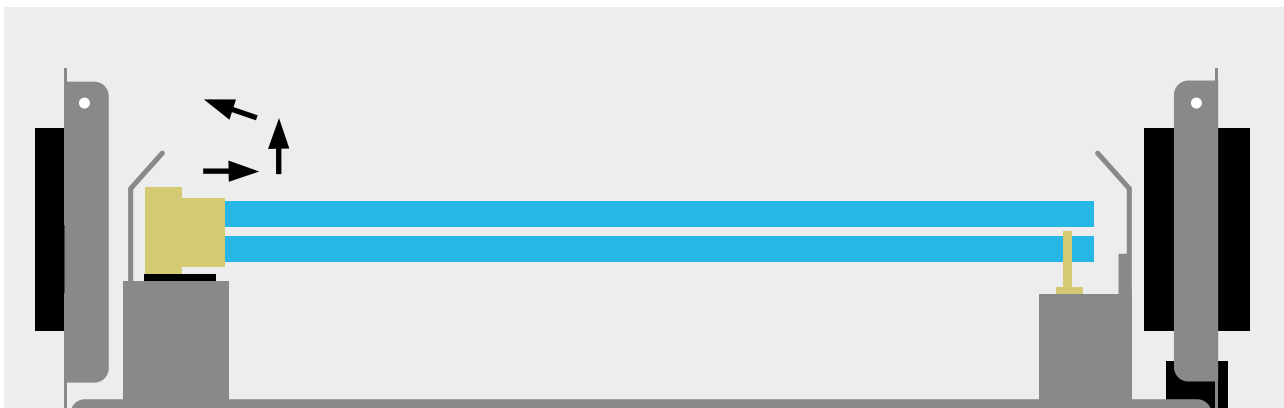
It is advisable to switch off the unit and:

- Wipe UVC lamps with lint-free cloth to remove dust or stains
- Visually check ballast and wiring for any signs of deterioration

Replacing UVC lamps

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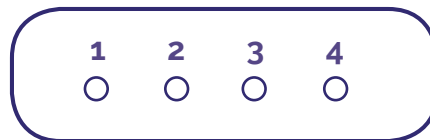
1. Switch off and disconnect the Air Tunnel from mains power.
2. Using both hands, gently pull a UVC lamp out of the lamp socket and the lamp clip on the other end. The movement of the lamp base during this procedure is illustrated by arrows in the picture below.



3. Visually and/or electrically (see below) check the electrodes of the UVC lamps for any defects and replace faulty lamp(s).
4. Remount the lamp(s) by fixing it into the lamp clip and then gently pushing the lamp base into a lamp holder until there is a click.
5. Connect the mains and turn on the unit.

Electrical testing a UVC lamp (circuit tester required)

The figure below shows pins in the lamp base. The UVC lamp filament should make a circuit between pins 1 and 2 and between pins 3 and 4. If either of these shows open circuit, the filament is broken and UVC lamp has to be replaced.



Troubleshooting

If there is no blue light being emitted either one or both UVC lamps have failed. We recommend replacing both UVC lamps at the same time in order to achieve maximum disinfection efficiency.

In the very unlikely event that both lamps are not faulty but the unit is not operating, the ballasts will have to be replaced. Please contact your local representative to arrange for service and/or replacement of the unit.

Technical Specification Operational

Disinfection rates*:

99.9% kill rate of Influenza A, MRSA, E-Coli, Tuberculosis
(single pass, 3 log kill or higher)

99% kill rate of Anthrax (single pass, 2 log kill)

65% kill rate of Clostridium difficile (single pass)

99.5% kill rate of Clostridium difficile (five passes recirculation)

*Disinfection rates based on calculated averages after 8,000 hours of operation.

Single pass inactivation means that the air is exhausted after it is treated and is not re-circulated.

Mechanical

Dimensions:	1000mm L x 250mm Diameter
Weight:	9 kg
IP rating:	IP20
Noise level:	<50db/A

Electrical

Supply voltage:	230 Vac, 50-60Hz, 0.83A
Fuse:	T1A slow blow
Power:	190W
Electronic ballast:	PC2-800
Ballast lifetime:	50,000 hours
UVC lamp:	2 x 95w PLL germicidal
UVC output per lamp:	34w
UVC lamp lifetime:	9,000 hours

Temperature

Operation:	from -10°C to +40°C
Storage:	from +15°C to +20°C



Health and Safety

UVC LAMPS PRODUCE HARMFUL ULTRAVIOLET LIGHT WHICH MAY RESULT IN THE DAMAGE OF EYES AND SKIN.

The unit must be placed at a minimum height of 3m and be interlocked with the door to ensure that people are not exposed to UVC light. For installations below 3m, a light guard must be employed - please enquire.

Waste and Recycling



DO NOT PUT INTO THE NORMAL RUBBISH COLLECTION

The UVC lamps of the Air Tunnel contain hazardous materials. For disposal advice, please contact your local representative.