



UVC Germicidal Cabinet: UV-BOX E3/40H-NX-R

UV-BOX E3/40H-NX-R

UV-BOX by Light Progress is among the few items on the market to offer an extremely quick and effective way to disinfect objects and tools.

The UV-BOX has a stainless steel AISI 304 structure with 2 stainless steel AISI 304 flat grills to support the objects to be disinfected. The UV-BOX works by treating the surface of the item with high concentration of UV-C light of 253.7 nanometres wavelength. It has 3 high power lamps (40W) together with a reflective interior to ensure a very high level of disinfection, up to 99.99% with a very short exposure time.

Validation

Germicidal Ultraviolet irradiation has a proven, strong germicidal effect against micro-organisms (moulds, bacteria and viruses).

In controlled testing environments, UVC usage has shown reductions of over 99.9% on live bacteria strains such as Bacillus, Coli, Clostridium, Legionella, Vibrio, Salmonella, Pseudomonas, Staphylococcus etc.

The concept and the effectiveness of it has been well documented by ASHRAE and others.

Traditional disinfection methods

Traditional disinfection requires the use of chemicals to wipe the surface of the object. This is often not sufficient to ensure high levels of hygiene. The UV-BOX provides a proven method disinfection that has been independently tested. The best part is there are no chemicals involved, providing a healthier environment for all.

Operation of UV-BOX E3/40H-NX-R

The box is equipped with a control panel which has an on/off switch and a timer. You can decide for the duration of the irradiation and of the pause interval between two subsequent working periods.

The steel door is equipped with a transparent anti UV polycarbonate window and a door sensor for turning off the UV lamps when the door is opened. Whenever the door is closed, UV lamps turn on and begin the disinfection of the inside space and surfaces. If the door is opened during the cycle, sensors will automatically deactivate the UV lamps to ensure the safety of the personnel. The lamps will reactivate once the doors are closed again.

The irradiation time can be adjusted from 1 second to 500 hours.

No Ozone

The use of UVC light in the 253.7 nanometres wavelength means there is no ozone produced. This is particularly important as ozone is hazardous to humans.

Applications

This box can be used for germicidal disinfection objects and tools for healthcare, labs, food industries, retail shops etc. Items includes:

- Face masks & PPE equipment
- Surgical tools
- Power tools
- Trays, containers
- Keys, cards, tags
- Headsets, jewellery
- Other shared items

WHAT ARE UV-C RAYS?

Light in a broad sense can be divided. Visible infra-red and ultraviolet rays.

Ultra-violet rays (invisible) can be classified in:

- UV A (with tanning properties)
- UV B (with therapeutic properties)
- UV C (with germicidal properties)

UV-C technology is a physical disinfection method with an optimal cost/benefit ratio, it's ecological and unlike chemicals it works against every micro organism without creating any resistance. No nasty chemicals.



Key Benefits of UV-BOX

PHYSICAL ACTION AND ENVIRONMENTAL PROTECTION.

- Treatment by UV-C rays is purely physical without the use of any chemicals.
- Results are consistent as microorganisms do not develop resistant to UV light.
- No residual effects, therefore, no long-term contamination.

TOTAL SAFETY

- Ultraviolet rays are confined to within the box. Objects can be disinfected whilst the UV-BOX door is closed.
- The transparent anti UV polycarbonate window allows for visual monitoring of the treatment progress.
- UV lamps automatically switch off if the door is opened during the cycle.

EASE OF USE

- Simple on/off switch and a timer to program the duration of the irradiation and of the pause interval between two subsequent working periods.
- The irradiation time can be adjusted from 1 second to 500 hours.

PRACTICABILITY AND SAVINGS.

- The treatment is immediate and ready for use. The maintenance is minimal with low costs of both energy consumption and maintenance.
- Allows for objects of a variety of size to be treated.

UV-BOX	E3/40H-NX-R
Average lamp lifetime (hour)*	≤ 18000
Total Consumption (w)	120
External Dimensions LxSxH	550x350x750
Internal Dimensions LxSxH	500x310x600
Weight (kg)	22
Air flow (m³/h) **	800 to 2,000
Spare Parts	
UV Lamp Code	no 3. CHS-40WH
Ballast Code	no 3. EB-55P
Timer Switch Code	no 1. PM4HW-H-AC240V-J

* continuous operation

- Highly efficient selective UV-C lamp (at 253.7 nm), pure quartz.
- Stainless steel AISI 304 cabinet with UV resistant polycarbonate window (LEXAN®).
- All used materials are tested to resist intense UV-C rays.
- Timer for treatment duration programming.
- Timer for pause between two subsequent irradiations.
- Safety switch to turn off the UV light when the door is opened.
- Electronic ballast specific for ultraviolet UV-C (220-240 V, 50-60 Hz) CE lamps.
- Mark (LVD - EMC - MD - RoHS).
- UVLON® PIPE protection (optional).
- Complies with the noise standards of Directive 2006/42/EC.
- Values measured according to UNI EN ISO 3746 - max 45 dBA at 1 m.
- Non-detectable and non-transmissible vibration values.
- Suitable for class 1 installations - protected areas.



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