

"Make Life Safer"



38 liter box cabinet for UV-C disinfection (NLUVBOX38L)



TECHNICAL FEATURES

Lamp model	NLUVBOX38L
Supply	12V / 2A 15W
Lamp power	12W
UV wavelength	UV-C 253.7nm
Internal capacity	38 liters
Internal measurements	370 * 295 * 295mm
External Measure	420 * 370 * 380mm
Packaging measures	470 * 425 * 470 mm
Net weight	8 Kg.
Gross weight with packaging	8.7 Kg.
Various	Safety door switch Transparent UV absorbing window Adjustable timer 0-60 minutes pause after two consecutive irradiations
Construction material	AISI 410, AISI 201 stainless steel
Type of tube	Selective high efficiency pure quartz tube
Operating temperature	0 °C <--> 65 °C
Certificates / standards	CE - RoHS - LVD - EMC - FDA - FCC EN60335-2-15 / EN60335-1 / ISO9001: 2015



DESCRIPTION OF THE DEVICE

The NLUVBOX series is a set of germicidal cabinets for the disinfection or maintenance of sterility of different types of instruments thanks to the power of UV-C rays. It can be used in different fields such as medical / surgical labs, chemical or biological labs, food industry, beauty salons, butchers, etc.

The cabinet is equipped with 12W UV lamps, protected by a stainless steel grid to avoid blows and damage. In particular, UV-C rays have a strong germicidal effect and are most effective at a wavelength of 253.7 nm.

The germicidal effect of UV-C radiation extends to bacteria, viruses, mold spores, fungi, molds and mites. Furthermore, since the process is not chemical but physical, there is no danger of creating forms of resistance over time, nor of contaminating food or the environment.

The stainless steel doors have a clear UV-resistant polycarbonate window and have a position switch to turn off the UV lamps when the doors are open.

The box is also equipped with a control panel equipped with an on / off switch and timer. The irradiation time can be adjusted according to the objects introduced.





APPLICATIONS AND RESULTS

The use of the cabinet is perfect when you need constant access to sterile equipment and instruments. It also offers the possibility of storing compounds and preparations from microbiological laboratories in disinfected containers, therefore free of microbes that cause premature deterioration and contamination. The cabinet works to direct the radiation of UV-C rays towards objects contained within it and is also equipped with an internal UV-C reflective coating, which eliminates shadow areas. This produces a very short exposure time to achieve 99.9% sterilization. For example, in 4 minutes, a 99% reduction of the microbial load is obtained for bacteria such as Bacillus, Coli, Clostridium, Legionella, Vibrio, Salmonella, Pseudomonas, Staphylococcus, Streptococcus, etc.

The use of this equipment does not create contraindications for the staff as it is made of STAINLESS STEEL and the inspection window is made of specific anti-UV material (LEXAN®).

OPERATION

Power supply via electronic ballasts is essential when rapid lamp operation and frequent switching on are required. After placing the objects on the appropriate supports and closing the cabinet door, UV radiation can begin.

The switching on / off of the UV-C lamps is controlled by a programmable cycle of pause intervals / working time. You can decide the duration of irradiation and the pause interval between two successive work periods. Each time the door is closed, the UV lamps turn on and start disinfecting the interior spaces and surfaces. This will last for the entire scheduled work time; any opening of the door, during the disinfection action, will immediately turn off the lamps, in order to guarantee the safety of the personnel; if you close the door, a new disinfection action will start from the beginning. At the end of the working period the lamps will turn off automatically. At the end of the pause period, the lamps will automatically turn on. This sequence allows to maintain aseptic conditions even over time.

The duration of the working time and the pause time can be manually adjusted before starting the treatment.

BENEFITS AND ADVANTAGES

- a) **PHYSICAL ACTION AND ENVIRONMENTAL PROTECTION.** The treatment with UV-C rays is purely physical and always achieves the same effect; moreover there are no overdose problems and the rooms are always safe and usable (when the devices are off). Rather, many chemical treatment methods involve the use of environmentally hazardous products that are difficult to biodegrade, as well as the risk of food contamination. Furthermore, the use of chemicals is likely to develop resistant microbial forms resulting in a danger to human health.
- b) **IMMEDIATE EFFECT.** It takes a very short time to obtain effective results (killing 99% of bacteria).
- c) **PRACTICABILITY AND SAVINGS.** The treatment is immediate and ready to use. Maintenance is minimal with low energy consumption and repair costs.
- d) **NO CONTRAINDICATIONS FOR EQUIPMENT TO BE TREATED.** This device provides the ability to maintain sterile equipment, without the slightest contraindication. The equipment to be disinfected, or previously sterilized, can be stored for a long time and are ready at any time, since the treatment is dry and without heat generation.
- e) **TOTAL SECURITY.** Ultraviolet rays are confined inside the casing and cannot escape due to the presence of UV-resistant polycarbonate (LEXAN®) and the presence of microswitches that prevent UV radiation when the door is open. Therefore, it can handle the instruments in the presence of the operators.

