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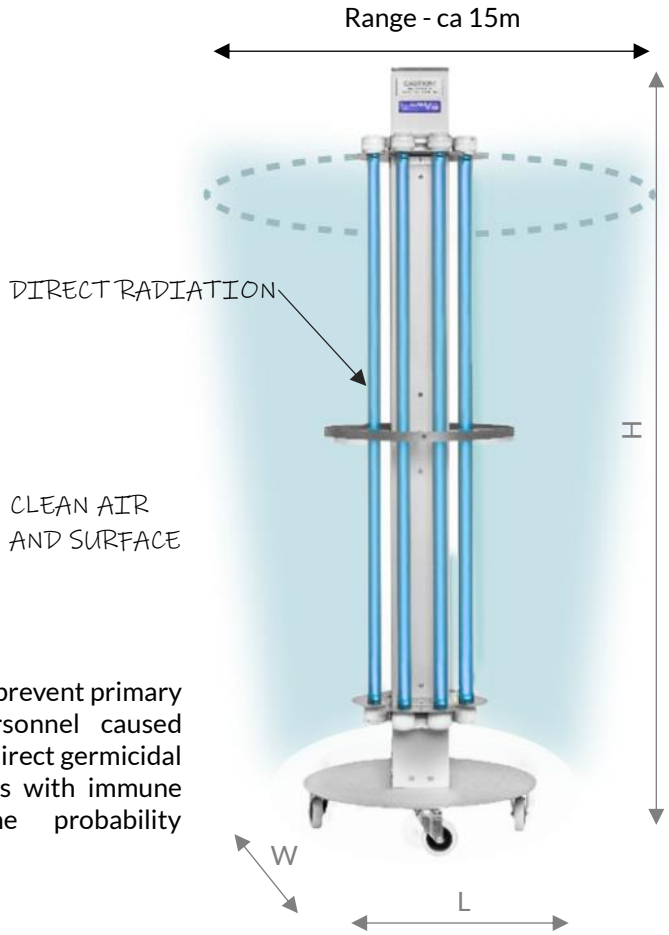
TECHNICAL DATA SHEET

NBV series



NBV 8x75 P BT

DIRECT RADIATION UV-C GERMICIDAL LAMP

HOW DOES THE DIRECT RADIATION UV-C GERMICIDAL LAMP WORK?

Direct radiation germicidal lamps type NBV are designed to prevent primary and secondary infections of patients and medical personnel caused by airborne pathogenic microorganisms (pathogens). Using direct germicidal radiation in the rooms where infected patients or patients with immune deficiencies are staying, significantly reduces the probability of infection spread by air.

BASIC DATA:

Airflow disinfection function (flow disinfection chamber)	no
Direct radiation function	yes
Presence of people, animals, plants inside the room during the disinfection process	not allowed
Mounting type	on a mobile stand- 4 wheels, 2 with brake
Working time counter	yes, internal showed via NBV App
Motion detector MD	yes, works independently
External bulbs	yes, 8 bulbs
Casing material	anodized aluminum and INOX
System of remote controlling	NBV BT Switch module controlled remotely via NBV App
Switch on/off	built-in lamp body
Ambient temperature	+10°C to +40°C
Relative humidity	30% to 70%
Atmospheric pressure	700 hPa to 1060 hPa
Declaration of conformity	yes
User's manual English version	yes

EDITION: 03/2025

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NBV 8x75 P BT

DIRECT RADIATION UV-C GERMICIDAL LAMP

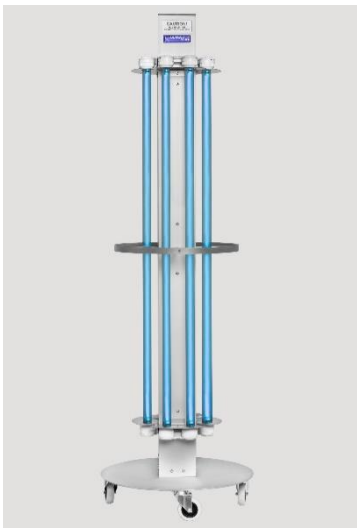
TECHNICAL DATA:

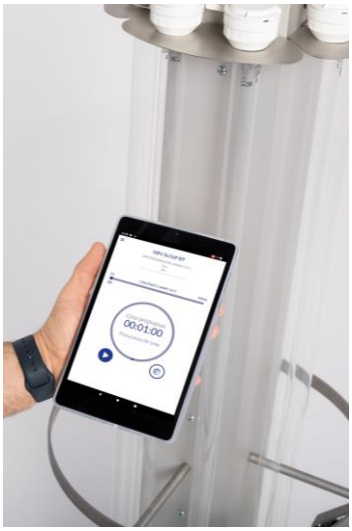
Supply voltage	230 V, 50 Hz
Power consumption	630 W
UV-C bulbs (Philips/Osram)	8 x 75 W (TUV/HNS)
UV-C radiation wavelength	253.7 nm
The useful lifetime of the UV-C bulbs	9 000 h
The radiation intensity of the external UV-C tubes at a distance of 1m	9.2 W/m^2
The effective area of the lamp	ca 160 - 170 m^2 (a circle Ø15 m)
Exposure angle adjustment range	360 °
Class of protection against electric shock	I
Ingress Protection Code	IP 20
Operation mode	continuous
Total lamp dimensions (L x W x H)	500 x 500 x 1620 mm
Total lamp mass	22 kg
Power cord length	5.0 m, ended with the socket plug

APPLICATION RECOMMENDATIONS:

Hospitals
- operation theatres
- intensive care units
- emergency rooms
- reception units
- examination and treatment rooms
- patient rooms
- isolation rooms, soiled/dirty utility rooms

Outpatient clinics
Medical laboratories
Chemist's
Beauty salons
Pharmaceutical industry
Food industry
Cosmetic industry





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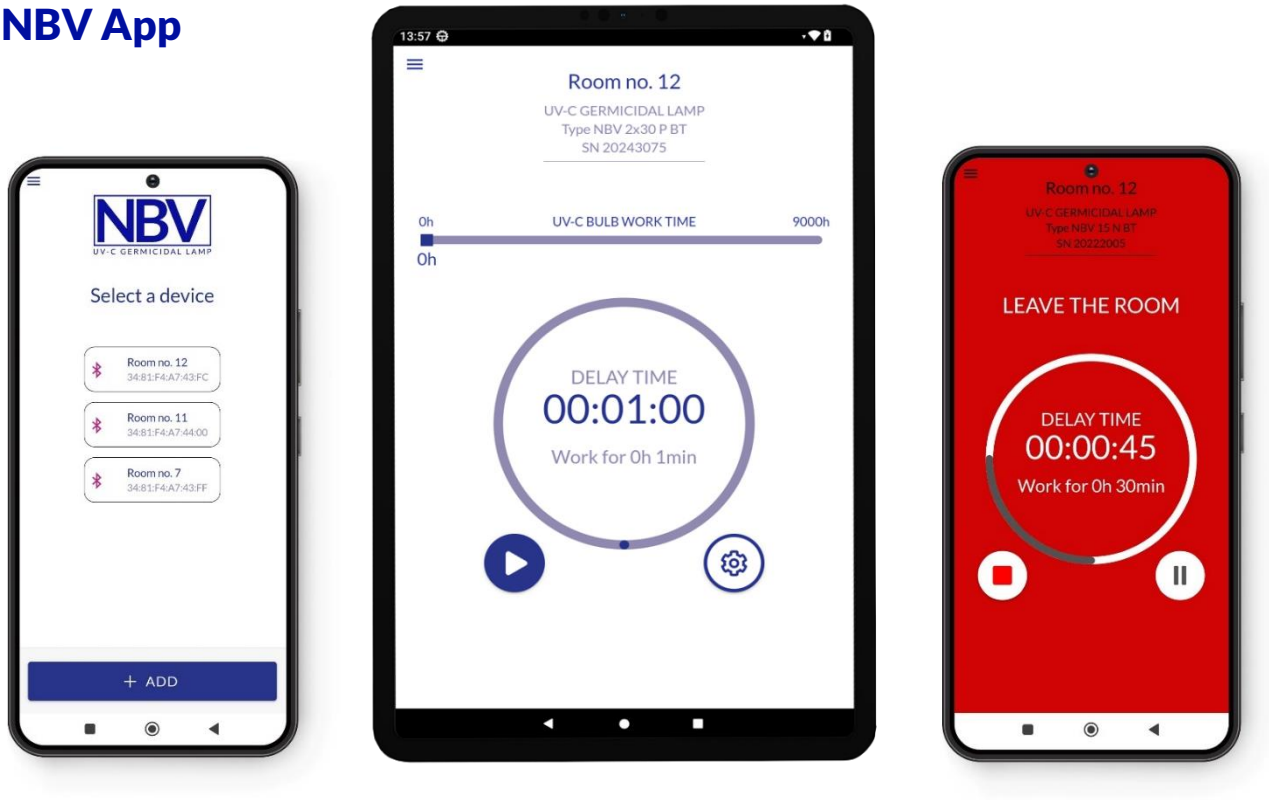
TECHNICAL DATA SHEET

NBV series

NBV App



The NBV 8x36 P BT and NBV 8x75 P BT lamps are equipped with a programmable switch module controlled by the NBV App via a smartphone or tablet with Android (Bluetooth).

The control system allows to:

- ✓ **set the operating time of the device within a range of 1 minute – 24 hours (ex. 10/20/30 minutes)**
- ✓ **set the delay** until the device is switched on
  (time to leave the room - min. 1 min., acoustic signal to warn of the approaching moment of switching on – **the safety of operation**)
- ✓ **count the working time of UV-C bulbs**
  (working-time counter displayed in NBV App shows UV-C bulb's useful lifetime with notification of the need of replacing them (visualization on the NBV App and an acoustic signal)
- ✓ **alert after 8950 h,** acoustic signaling the remaining 50 hours of bulbs effective work and after 9000h signaling the UV-C bulbs exchange time.
- ✓ **possibility to stop and resume** lamp operation at any time during the work cycle.

Each lamp is equipped with a motion detector that turns off UV-C radiation regardless of the operation of the programmable BT switch module.

The device's effectiveness has been confirmed through research conducted by the independent **State Research Institute** (Prof. Wacław Dąbrowski Institute of Agriculture and Food Biotechnology).

Additionally, an Excel file with a UV-C dose calculator is available with the device on request.

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