

Mobile UVC Disinfection Unit

DT8-1500C

Description

The UVC tower is a mobile device for flexible use for air and surface disinfection. The device was developed as a supplement to standard cleaning in rooms where no personnel are present.

DT8-1500C is used to sterilize hospital rooms, production, work and storage areas without personnel present, and provides 360° treatment.

Specifications

- Stainless steel housing
- 4 controllable rollers
- Protective grate prevents light breakage
- absolute personnel safety using motion sensors with automatic switch-off
- Rugged design – the low center of gravity prevents the device from tipping over
- Plug in device, operate via Smartphone
- Status feedback; individual disinfection processes can be evaluated
- Emitters can be replaced by the operator*



Mobile disinfection unit DT 8-1500

Applications

- Medical surfaces
- Walls
- Electronic equipment
- Mattress covers
- Tables/chairs/cabinets

Technical Data

Order number	110.5540
Dimensions (W x D x H)	532 x 532 x 1726 mm
Housing Material	Stainless steel V2A
Emitter ST1	8 x UV-C Emitter (254 nm) high efficiency / 12.000 h
Power	700 W
Voltage	230V ± 10% (50 – 60Hz)
Connection cable	5 m; cable reel (installed) incl. Euro plug
Weight	50 kg
Protection class	IP 54
Operation	Smartphone - Connectivity App
Safety	Activation delay / 3D - 360 IFR motion sensors / protective grate / emitter splinter protection

*Suitable replacement lamps are also available from LTF Labortechnik, www.labortechnik.com

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Safety

The mobile disinfection unit DT8-1500C is especially suitable for the hospital sector due to its easy handling.

The DT8-1500C enables a higher degree of hygiene due to the effect of UV-C technology.

The mechanism of action of UVC disinfection is based purely on physics and knows no chemistry, no toxic compounds and no formation of resistance.

Microorganisms are prevented from multiplying when exposed to UV-C radiation or "killed off". In addition, the use of UVC disinfection meets the high requirements of consumer protection and the VDI 6022 as well as the HACCP concepts.

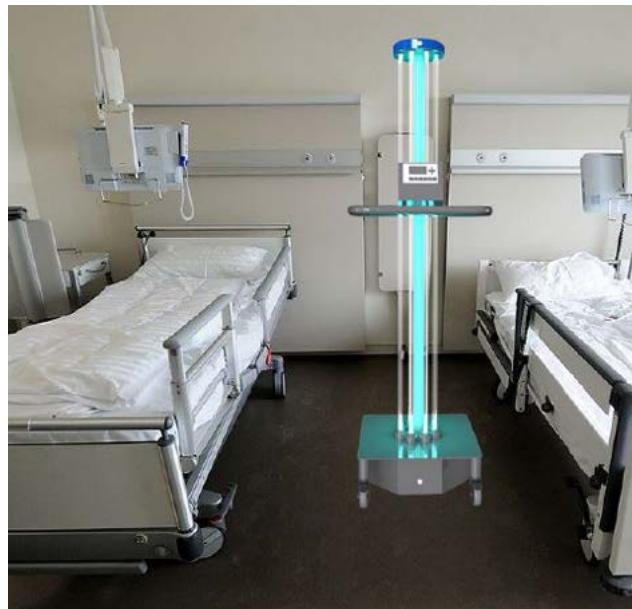
Operation is via a display, which allows the desired UVC treatment time (irradiation time) to be set. Once the treatment time has been set, the UVC lamps are switched on after a countdown or after actuation by radio remote control.

Sensors in the head and foot area provide additional protection when entering the treatment area.

Due to its compact design the DT8-1500C can also be positioned in narrow areas. The "Hygienic Design" of the DT8-1500C allows easy cleaning of the device. Mobility is achieved through low weight and swivel castors with stop fixation. The centre of gravity of the DT8-1500C is low, which prevents the device from tilting.

The mobile sterilisation device is used in the following hospital areas, among others

- Patient rooms
- Delivery room
- Laboratories
- Ambulance rooms
- Emergency rooms
- Operating rooms
- Recovery rooms
- Intensive care units



Benefits at a glance

- Efficient disinfection without the use of chemicals.
- Mobile unit with stop-fixing.
- 360° disinfection (8 pcs. UVC lamps).
- Very economical, low power consumption.
- Adjustable irradiation time (exposure to UVC) via display.
- Easy operation, additional remote control (start/stop).
- Lifetime UV-C lamp 12,000 h, durable for regular use in hospitals.
- Hygienic design, V2A stainless steel version.
- Easy cleaning and maintenance.
- Connection cable, extendable length 5m.
- Compact size, easy to transport in hospital rooms.
- Operating hours and switch-on visible via display.
- Safe switch-off when entering the room by 7 pcs.
- Motion detector (360° degree monitoring)
- 4 antistatic castors (ESD) guarantee high mobility.
- Splinter-free, UV-C lamps with splinter protection.
- Short treatment times of 5 to 20 minutes.

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CE Conformity

The following harmonized standards were applied in their current valid version:

As per EMC directive 2014/30/EU

EN 61000-6-2: 2005+AC:2005

Electromagnetic compatibility (EMC) - part 6-2
Generic standards - Immunity standard
for industrial environments

EN 61000-3-2: 2014

EN 61000-3-2:2014 Electromagnetic compatibility (EMC) – part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) IEC 61000-3-2:2014

EN 61000-3-3:2013

Electromagnetic compatibility (EMC) - part 3-3
Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

EN 61000-6-1:2007

Electromagnetic compatibility (EMC) - part 6-1
Generic standards. Immunity for residential, commercial and light-industrial environments

EN 61204-3:2000

Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) IEC 612043:2000

As per low voltage directive 2014/35/EU

EN 50363-0:2011

Insulating, sheathing and covering materials for low-voltage energy cables - part 2-2: Networked, elastomer encasement mixtures

EN 50363-2-2:2005

Insulating, sheathing and covering materials for low-voltage energy cables - part 2-2: Networked, elastomer encasement mixtures

EN 50565-1:2014

Electric cables. Guide to use for cables with a rated voltage not exceeding 450/750 V (U0/U) - part 1: General guidance

EN 60204-1:2006

Safety of machinery - Electrical equipment of machines - part 1: General requirements

EN 60947-1:2007

Low-voltage switchgear - part 1: General rules IEC 60947-1:2007

EN 61000-3-2:2014

Electromagnetic compatibility (EMC) - part 3-2
Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) IEC 61000-3-2:2014

As per RoHS directive 2011/65/EU

EN 50581:2012

Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Additionally applied standards

EN 12198-1:2000+A1:2008

Safety of machinery - Assessment and reduction of risks arising from radiation emitted by machinery - Part 1: General principles

EN ISO 12100:2011

Safety of machinery - General principles for design - Risk assessment and risk reduction