



# ASEPTOR

BASIC



## UV-C AIR FLOW STERILISATION

extremely effective

whisper quiet

completely safe

# WHAT IS UV-C RADIATION?

Ultraviolet (UV) radiation is classified as electromagnetic radiation, similar to X-rays, radio waves and visible light. For practical purposes of the UV spectrum it has been divided into three types:

- **UV-A** long wave band radiation 400 nm - 315 nm
- **UV-B** medium wave band radiation 315 nm - 280 nm
- **UV-C** shortwave band radiation 280 nm - 100 nm

UV-A radiation naturally reaches the Earth along with the sunlight. It deeply penetrates the dermis due to its long wave. UV-A causes the so-called immediate tan, visible after a short time of tanning. The immediate tan lasts only for a few hours.

The radiation from the UV-B group is mainly used in medical therapy. It produces provitamin D. The UV-B radiation is responsible for creation of the so-called delayed tan that lasts much longer. It causes skin pigmentation and erythema effect (burned skin).

UV-C radiation type has a strong germicidal effect. This kind of radiation causes numerous skin burns (erythema effect), as well as conjunctivitis. It does not reach the Earth's surface as it is absorbed by the ozone layer in the atmosphere.

UV-C radiation irreversibly deactivates all viruses, bacteria, fungi and microorganisms. This effect is scientifically proven by numerous researches.

## UV-C germicidal flow lamp

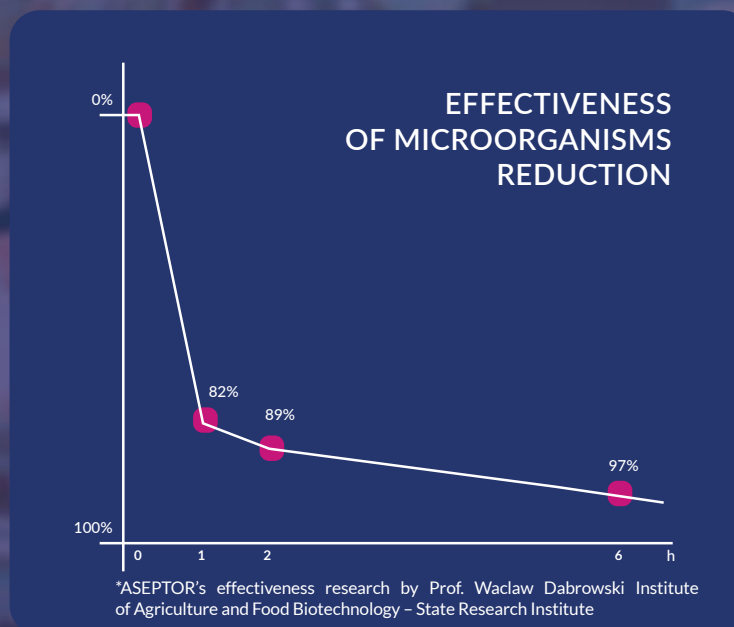
- ✓ safe for people
- ☼ deadly for viruses

## Germicidal effectiveness of UV-C radiation

Microorganisms exposed to UV-C radiation are quickly deactivated. This phenomenon is called germicidal effect. As a result of numerous scientific researches it is scientifically proven statement, that the strongest biocidal effect occurs in the range of 250-270 nm radiation wave. The mechanism is based on the influence on the DNA of the microorganism's cell nuclei by a photochemical reaction which is triggered by photons absorption by the nucleic acids of cells.

UV-C radiation is a shortwave one, therefore it is also high-energy radiation.

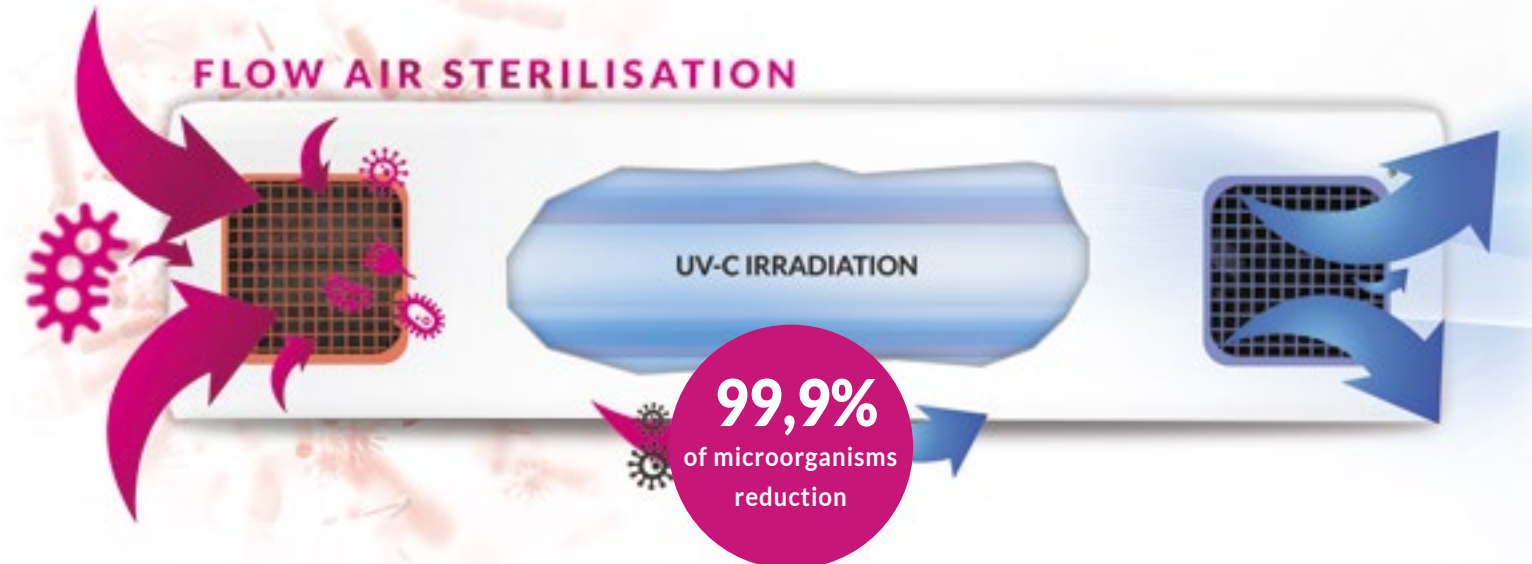
The energy of the photons absorbed by the nucleic acids causes disruption of DNA molecular bonds and creates pyrimidine dimers. UV-C radiation inactivates DNA and RNA of microorganisms.



# HOW DO GERMICIDAL FLOW LAMPS WORK?

CONTAMINATED AIR

DECONTAMINATED AIR



## Germicidal flow lamps

Air disinfection with UV-C rays takes place inside the flow chamber of the ASEPTOR. The device is equipped with high quality, quiet and efficient fan. Before the air enters the disinfection it is pre-cleaned by the filter, which stops dust and other contaminants. The highest level of air disinfection is achieved thanks to the ideal proportion of UV-C radiation intensity and time of the air flowing under its biocidal influence. The UV-C dose obtained inside the ASEPTOR UV-C disinfection chamber is deadly to all viruses, bacteria, molds and fungi. The important conclusion is the fact that forced air flow causes enhanced smooth circulation of the disinfected air in the room.

\* the device contains patented, original technical solutions.



**We are the pioneers  
in cooperation with  
Prof. Wacław Dąbrowski  
Institute of Agriculture and Food  
Biotechnology - State Research  
Institute in terms  
of exploring the effectiveness  
our UV-C lamps.**



    
**2 x 36W 35 m<sup>2</sup> 90 m<sup>3</sup>**

ASEPTOR was designed with the greatest care for people's safety. The company's aim was to create the product dedicated for doctors, medical staff, patients in medical-offices, people working in beauty salons, offices and any places where clean air is crucial for functioning. ASEPTOR 236 is equipped with two compact powerful UV-C 36W tubes. Extremely quiet fan ensures practically silent operation and effective air disinfection in rooms up to 35 m<sup>2</sup> and 90 m<sup>3</sup>.

    
**2 x 55W 60 m<sup>2</sup> 150 m<sup>3</sup>**

ASEPTOR is an effective protection against microbiological threats in larger areas such as: operating rooms, waiting rooms, open-space offices, auditoriums. ASEPTOR 255 is equipped with two compact 55 W UV-C tubes. The device provides noiseless operation of the fan. ASEPTOR 255 works well in large cubatures up to 150 m<sup>3</sup>. The design and the construction of the lamp guarantees full safety due to the fact that 100% of the UV-C radiation stays inside the lamp's chamber.

**ASB 236 M C**  
 ASEPTOR Basic 236 mobile version with advanced working-time LED counter, powder-coating finish

**ASB 255 M**  
 ASEPTOR Basic 255 mobile version

Remote control an optional version- RC SYMBOL

**ASB 236 W C INOX**  
 ASEPTOR Basic 236 wall-mounted version with advanced appliance's working-time LED counter, INOX finish.

**ASB 255 W C**  
 ASEPTOR Basic 255 wall-mounted version with advanced working-time LED display counter, white powder-coating finish.

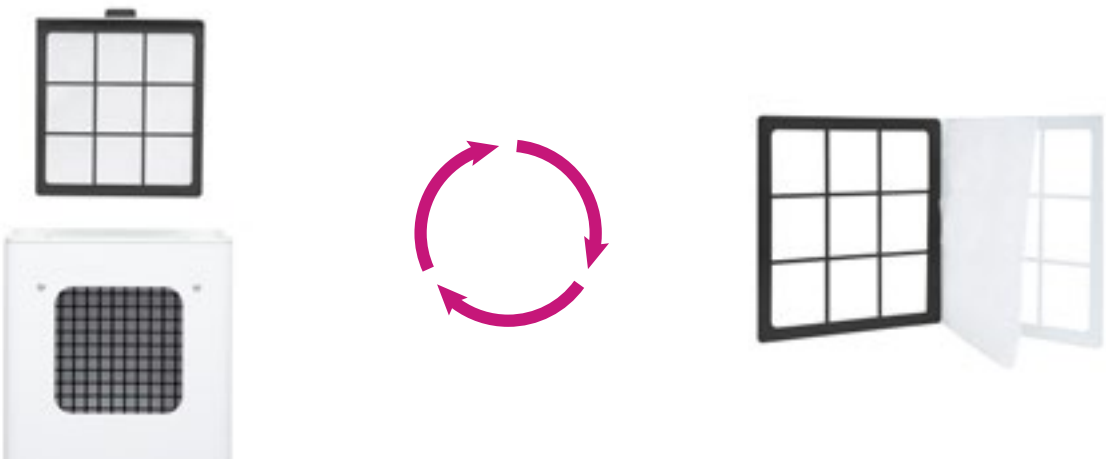
# TECHNICAL DETAILS



C - advanced working-time LED counter in ASEPTOR Basic

- working time counter (counter accuracy to 1 hour)
- automatic brightness level- display shadowing and brightening depending on the light intensity level in the room
- quiet alert after 8800 h- visual signaling of the last 200 h of bulb work
- acoustic and visual signalization of the UV-C bulbs exchange time (after 9000 h)
- bulb error alarm- audio and visual signaling (bulb/Err)

## EASY AND CONVENIENT FILTER EXCHANGE



## WALL MOUNTED VERSION OF THE ASEPTOR- W SYMBOL AESTHETIC INSTALLATION - WALL / CEILING OPTION

Lamp's chamber construction enables hiding electric cords behind the lamp. The device fits attractively to every space, being an integral part of them.

## MOBILE VERSION OF THE ASEPTOR - M SYMBOL ON THE WHEEL-TRIPOD

The mobile tripod's design and construction provides stability and safety for the users. Its weight and entire device's body, facilitates easy and smooth movement in every direction.



# TECHNICAL DATA

|  |                                  |                                  |
|--|----------------------------------|----------------------------------|
| Lamp type                                  | ASB 236                          | ASB 255                          |
| Supply voltage                             | 230V, 50Hz                       | 230V, 50Hz                       |
| Power consumption                          | 80 W                             | 120 W                            |
| UV-C bulb type                             | 2 x PL-L TUV36W (HNS-L 36W 2G11) | 2 x PL-L TUV55W (HNS-L 55W 2G11) |
| UV-C bulb durability (h)                   | 9 000 h                          | 9 000 h                          |
| Fan efficiency                             | 80 m³/h                          | 130 m³/h                         |
| Air flow capability                        | 35 m³/h                          | 60 m³/h                          |
| Disinfected cubature                       | 90 m³                            | 150 m³                           |
| Disinfected surface                        | 35 m²                            | 60 m²                            |
| Fan volume                                 | < 20 dB                          | < 30 dB                          |
| Anti-shock protection class                | I                                | I                                |
| Casing type                                | IP20                             | IP 20                            |
| Class for the medical environment          | B - home                         |                                  |
| Group according to PN-EN 55011 Clause 5:   | 1                                |                                  |
| Compliance with PN-EN 60601-1              | YES                              |                                  |
| Lamp body dimensions                       | 890 x 215 x 140 mm               | 1035 x 250 x 155 mm              |
| Overall dimensions -wall-mounted version W | 890 x 215 x 140 mm               | 1035 x 250 x 155 mm              |
| Overall dimensions -mobile version M       | 600 x 1070 x 600 mm              | 600 x 1250 x 600 mm              |
| Lamp body weight                           | 9,1 kg                           | 10,9 kg                          |
| Total weight - wall-mounted version W      | 9,5 kg                           | 11,3 kg                          |
| Total weight- mobile version M             | 12,7 kg                          | 14,5 kg                          |

## TYPES OF LAMP'S BODY



IF YOU HAVE  
ANY QUESTIONS PLEASE  
CONTACT US,  
OUR SPECIALISTS  
WILL HELP YOU



# APPLICATIONS

# BENEFITS

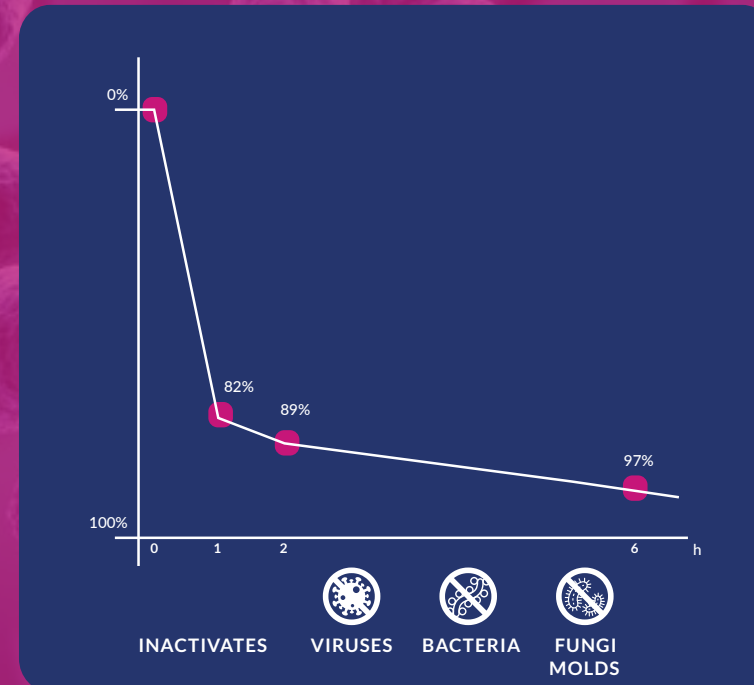
## MEDICINE



## INDUSTRY



## FAST AND EFFECTIVE MICROORGANISMS REDUCTION



## HIGHEST LEVEL OF MICROBIOLOGICAL PURITY IN THE WHOLE ROOM



## PUBLIC FACILITIES



## OFFICES



## COMPLETELY SAFE FOR PEOPLE AND ANIMALS



## EXCEPTIONALLY QUIET

