PROFESSIONAL ROOM STERILIZERS

STERYLIS®

ULTRA

MILOO ELECTRONICS

PROFESSIONAL **ROOM** **STERILIZERS**

Sterilization by ozone and UV-C radiation with particle filtration in one unit.

TECHNOLOGY

ULTRA ROOM STERILIZERS

These are innovative room disinfection devices with an additional air filtration function, which use UV-C sources with the wavelength of the most effective in the fight against microorganisms, and efficient ozone generators that enable a quick and effective disinfection process at even hard-to-reach places. They are available in several versions differing in the power of the UV-C source used, the efficiency of the ozone generator and the airflow efficiency. The series include the models: ULTRA-220, ULTRA-330, ULTRA-440, ULTRA-550.

UV-C RADIATION

The high-performance lamp system between the filters emits UV-C radiation with wavelength of 253.7 nm. UV-C radiation causes irreversible damage to the DNA and RNA of microorganisms (bacteria, viruses, molds, fungi) leading to their neutralization \[13] \[14]. This means that the air after passing through the channel contains a significantly reduced amount of active microorganisms. Thanks to the special closed disinfection channel construction, the emitted high-energy UV-C radiation does not spread outside the interior of the unit, which allows for safe operation of the sterilizer in this mode in rooms where people are present.

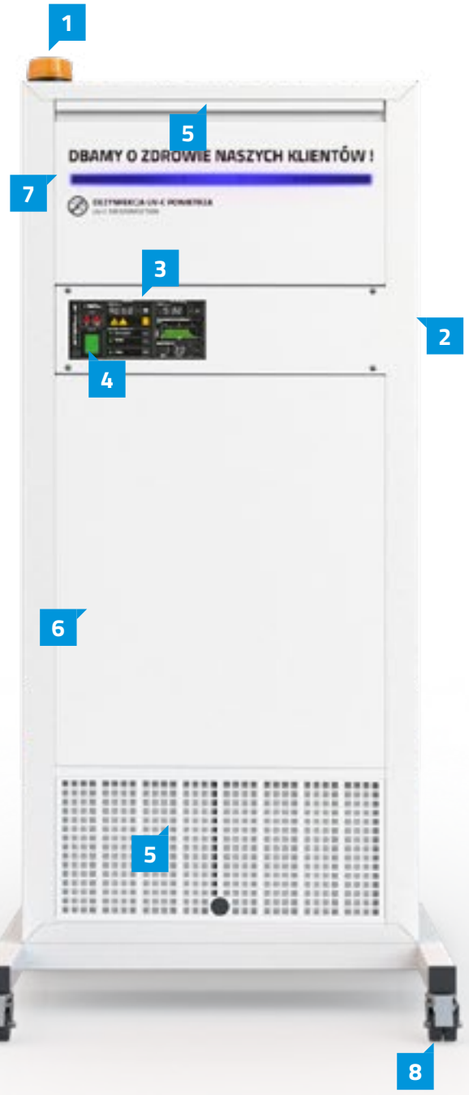
OZONE GENERATOR

In the intensive disinfection mode, the device produces ozone, which has strong oxidizing properties – including the destruction of structures of living organisms [6] [7] [8] [9] [11] [12]. Ozone also has the ability to neutralize all kinds of odors. Thanks to the high performance of the ozone generators used in the unit, the speed and efficiency of this method of decontamination with STERYLIS sterilizers is extremely high. The total sterilization of the rooms is usually completed in about 4 hours, and the whole process is controlled by a controller measuring the ozone concentration generated in the room in real time. Intelligent control of the ozone process ensures not only the highest sterilization efficiency but also the safety of the entire process. The safe concentration of ozone is possible thanks to the function of its destruction after the sterilization process. Thanks to the gaseous form of the ozone generated, not only the air in the room is completely sterilized, but also all the objects in the room that ozone can reach during the decontamination process.

DOUBLE FILTRATION

STERYLIS sterilizers have 2-stage air filtration (pre-filter and exhaust filter). High-quality filter media with electrostatic properties are capable of trapping even microscopic dirt particles. The use of an antibacterial system based on an odorless, non-toxic and invisible to the human eye coating applied to the filter medium allows to remove harmful allergens and bacteria from the air. This technology makes the STERYLIS sterilizers, in addition to their disinfection and sterilization functions, extremely effective also in cleaning air from particulate matter.

INTUITIVE AND CONVENIENT



1. LIGHT AND SOUND SIGNALLING
indicates that the unit is in the room sterilization cycle with ozone.

2. ERGONOMIC HANDLES

3. CONTROL PANEL

4. MAIN SWITCH

5. CARTRIDGE FILTERS
easy to replace

6. CONTROLLER WITH OZONE SENSOR
manages the operation of the device and analyzes the concentration of ozone in the room

7. BACKLIT PANEL
gently pulsating blue light

8. CASTORS

STERYLIS®

PROFESSIONAL ROOM STERILIZERS

SAFETY

Signal and warning lights and acoustic signals generated by the device inform the user about the sterilization mode activated and the safe or excessive level of ozone concentration in the room. Whenever the device detects that the concentration limit has been exceeded, it adjusts its own performance while ensuring maximum safety.

CONVENIENCE

Intelligent air sterilizers provide maximum comfort. A simple and intuitive control panel makes it easy to select the operating mode. The new sterilization mode controller allows you to choose between automatic operation and operation with predefined settings for sterilization time and ozone concentration, it is also possible to program and select own operation mode. The displays inform the user about the ozone concentration and process parameters. They indicate the need to replace filters, the need to replace UV-C lamps if their service life is exceeded or if they burn out, and damage to other components, e.g. one of the ozone generators, if such damage occurs. This is by far the highest level of self-diagnosis in such units.

SIMPLE OPERATION

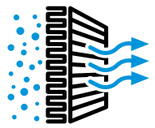
The controller the unit is equipped with is intuitive, functional and very simple to use. The operating modes are changed by means of a mode selection buttons. Signal lights visible from a distance allow you to conveniently assess from a distance which operating mode the device is currently in; safety messages are signaled in the same way.
The panel has displays indicating the current ozone concentration, time to process completion, in case of delayed activation, operating modes or selected program, maintenance alerts for the device, including signaling the need to replace filters. Along with acoustic signaling, the flashing signal lamp visible from a distance provide safety in sterilization mode. These are just some of its functions.

SILENT OPERATION

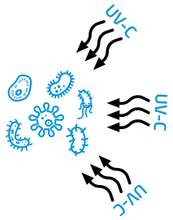
By changing the operating mode to "UV-C disinfection SILENT MODE", the unit switches to low fan speed operation and starts quiet operation in disinfection mode. From now on, the user's peaceful sleep with the simultaneous operation of the sterilizer is not at risk.

HOW THE UV-C TECHNOLOGY **WORKS FOR PATHOGENS**

1 Bacteria, viruses, and other pathogens are transferred to the sterilizer.



2 Pre-filtration of particulates.



3 Pathogens in the air are exposed to UV-C radiation.

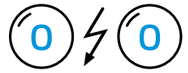
4 The DNA / RNA structure of pathogens is damaged, which prevents its reproduction.

5 The cleaned air is returned to the room through a second outlet filter.

WHAT A FULL CYCLE **OF OZONE STERILIZATION LOOKS LIKE**

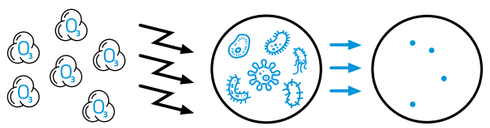
1 The molecular oxygen contained in the air is supplied to an ozone generator located inside the sterilizer.

2 Crown discharges separate oxygen molecules.

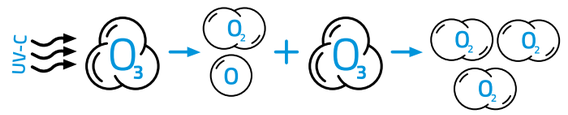


3 Single oxygen atoms bond with oxygen molecules to form ozone molecules (O_3).

4 Once the concentration of ozone as a gas has been achieved, it reaches all corners of the room, neutralizing pathogens.



5 Once the sterilization process is complete, the unit enters into UV ozone destruction mode, speeding up the time needed to achieve a concentration of O_3 safe for the user.



6 Once the safe ozone concentration is reached, the sterilization cycle is completed and the sterilizer enters the standby mode.

7 The room is sterile, free of pathogens.

UV-C RADIATION DOSE

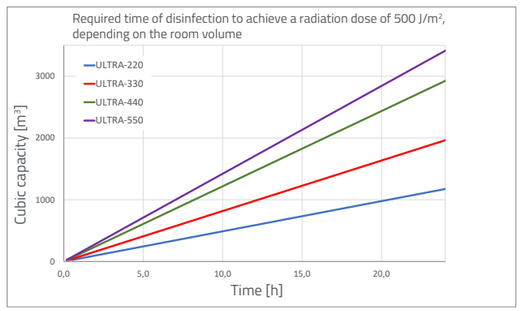
GENERATED BY THE EQUIPMENT

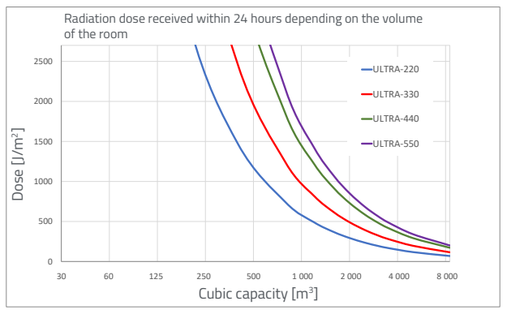
DURING DISINFECTION

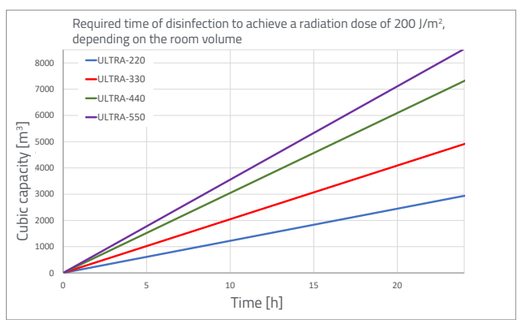
The degree of deactivation of pathogens with ultraviolet radiation directly depends on the dose of this UV-C radiation. The UV-C dose is the product of the irradiance [I] and the exposure time [t].
Therefore: DOSE = I x t
The UV-C radiation dose is expressed in joules per square meter [J/m²].

The average dose of UV-C radiation generated at one passage of air through the full volume of the disinfection chamber

STERYLIS unit model		ULTRA-220	ULTRA-330	ULTRA-440	ULTRA-550
Operation mode UV-C disinfection (silent)	Average dose [J/m²]	144	221	105	104
	Efficiency [m³/h]	170	185	580	680
Operation mode Disinfection UV-C	Average dose [J/m²]	106	141	90	79
	Efficiency [m³/h]	230	290	680	900







UV-C RADIATION DOSE

REQUIRED TO NEUTRALIZE THE PATHOGEN

The UV-C radiation dose required for a 99.9% pathogen reduction is shown in the table. The exemplary data given are collected from scientific publications and research on ultraviolet light sterilization technology from around the world. [1] [2] [3] [4] [5] [8] [10] [12]

BACTERIA

	[J/m²]
Agrobacterium Lumefaciens	85
Acinetobacter	14
Bacillus Anthracis	87
Bacillus Anthracis Spores	462
BaciHus Megatherium Sp. (Veg)	25
Bacillus Megatherium Sp. (Spores)	52
Bacillus Paratyphosus	61
Bacillus Subtilis	110
Bacillus Subtilis Spores	220
Bordetella pertussis	63
Clostridium Tetani	231
Clostridium Botulinum	112
Corynebacterium Diphtheriae	65
Dysentery Bacilli	42
Eberthella Typhosa	41
Enterobacter cloacae	64
Enterococcus	28
Escerichia Coll	86
Haemophilus influenzae	19
Haemophilus parainfluenzae	77
Klebsiella pneumoniae	52
Legionella pneumophila	11
Legionella Dumoffill	55
Legionella Gormanil	49
Legionella Micdadei	31
Legionella Longbeachae	29
Leglonella Pneumophfla	27
Leptospiracanicola - Infectious Jaundice	60
Leptospira Interrogans	80
Micrococcus Candidus	123
Micrococcus Sphaeroides	154
Mycobacterlum Tuberculosis	100
Neisseria Catarrhalis	85
Phytomonas Tumefaciens	105
Proteus Vulgaris	39
Pseudomonas Aeruginosa	66
Pseudomonas Fluorescens	76
Rhodospirillum Rubrum	61
Salmonella Enteritidis	100
Salmonella Paratyphi	152
Salmonella Species	70
Salmonella Typhimurium	105
Salmonella Typhosa	264
Salmonella	61.6
Sarcina Lutea	42
Serratia Marcescens	34
Shigella Dysenteriae-Dysentery	34
Shigella Flexneri-Dysentery	70
Shigella Paradysenteriae	85
Shigella Sonnei	66
Spirillum Rubrum	61.6
Staphlylococcus Albus	57.2
Staphlylococcus Aureus	66
Staphlylococcus Epidermidis	58
Streptococcus Faecaila	100
Streptococcus Hemolyticus	55
Streptococcus Lactis	88
Streptococcus Pyrogenes	42
Streptococcus Salivarius	42
Streptococcus Viridans	38
Typhoid Fever	41
Vibrio Comma (Cholera)	65
Vibrio Cholerae	65

MOLDS

	[J/m²]
Aspergillus Amstelodami	770
Aspergillus Flavus	990
Aspergillus Glaucus	880
Mucor Mucedo	770
Mucor Racemosus (A & B)	352
Oospora Lactis	110
Penicillium Chrysogenum	560
Penicillium Digitatum	880
Penicillium Expansum	220
Penicillium Roqueforti	264

PROTOZOANS

	[J/m²]
Chlorella Volgaris (atgae)	220
E. Hystolytica	840
Nematode Eggs	400

VIRUSES

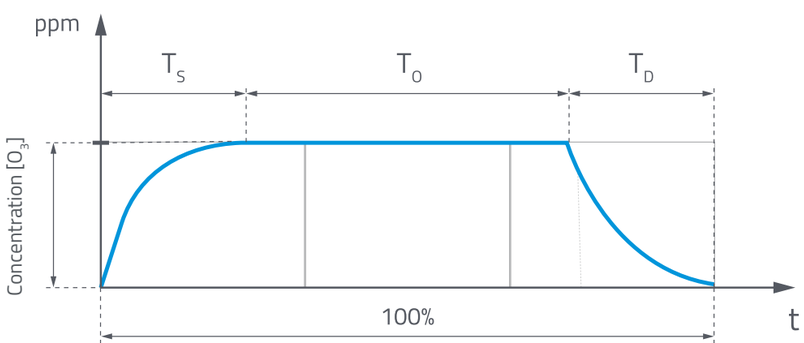
	[J/m²]
Adenovirus	45
Bacterlophage (E.Coli)	66
Coronavirus (SARS)	18
SARS Coronavirus CoV-P9	40
Murine Coronavirus (MHV)	103
SARS Coronavirus (Hanoi)	134
SARS Coronavirus (Urbani)	241
Coxsackievirus	63
Infectious Hepatitis	80
Influenza	34
Measles virus	22
Mumps virus	30
Norwalk virus	198
Parainfluenza virus	21
Parvovirus B19	25
Poliovirus	210
Reovirus	158
Rhinovirus	162
Rotavirus	240
RSV	25
Rubella virus	622
VZV (Varicella surrogate k)	18
Variola	240

FUNGI

	[J/m²]
Aspergillus spores	258
Baker's Yeast	88
Blastomyces dermatitidis spores	140
Brewer's Yeast	66
Common Yeast Cake	132
Cryptococcus neoformans spores	138
Fusarium spores	269
Mucor spores	228
Rhizopus spores	267
Saccharomyces Cereisiae	132
Saccharomyces Ellipsoideus	132
Saccharomyces Sp.	176

WHAT THE OZONE PROCESS **IN STERILIZED ROOMS LOOKS LIKE**

Chart of the sterilization process in the room

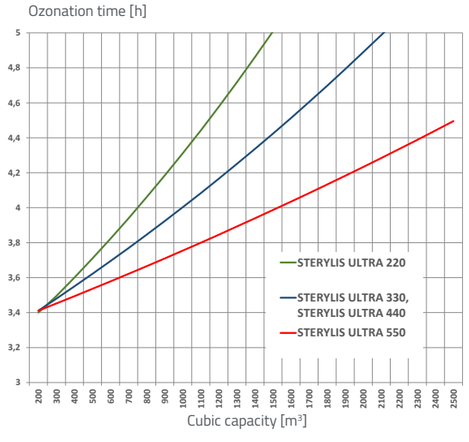


Key:
T_S - time to reach the sterilizing ozone concentration (default 5 ppm)
T_O - supervised by the controller, required time of the sterilization process depending on the achieved ozone concentration
T_D - supervised by the controller, supported by an ozone destructor, time of the process of returning to a safe ozone concentration

Application range
in sterilization mode (O_3)

MODEL	RECOMMENDED STERILIZED CUBIC CAPACITY (in ozonization mode) [m³]	MAXIMUM STERILIZED CUBIC CAPACITY (in ozonization mode) [m³]
ULTRA 220	450	2,700
ULTRA 330	850	3,600
ULTRA 440	850	3,600
ULTRA 550	1,050	5,600

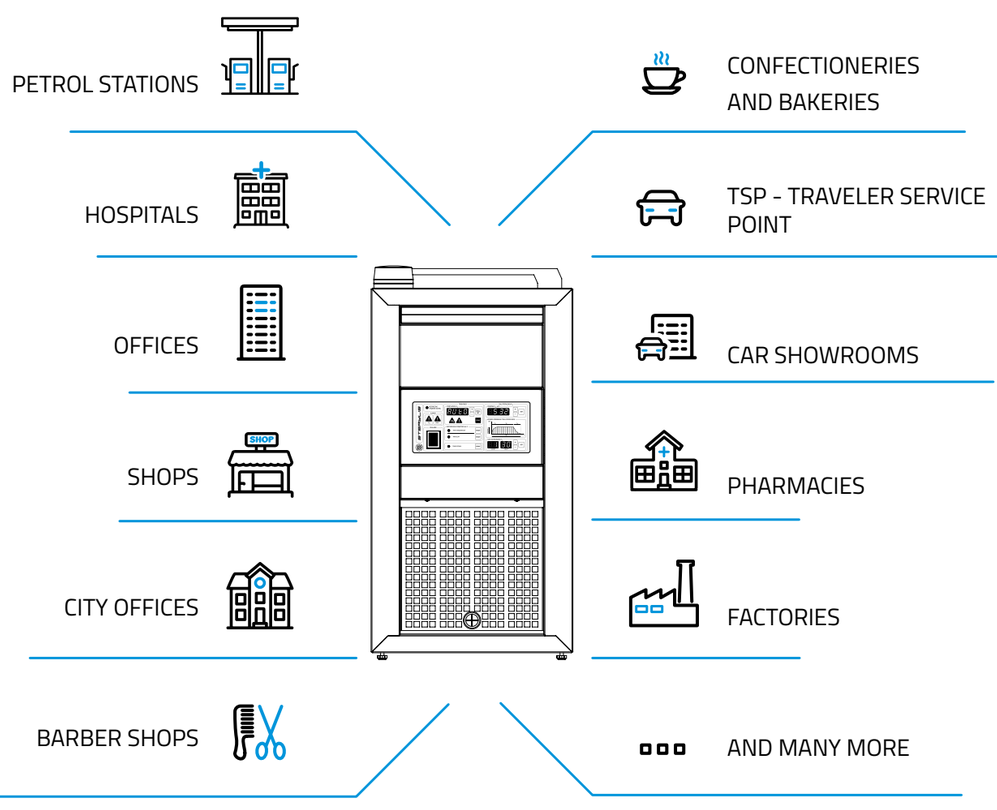
Chart of ozone sterilization time depending on the volume of the room to be sterilized



PLACES OF APPLICATION

PRACTICALLY IN EVERY ROOM!

STERYLIS ULTRA devices are adapted to every type of room and to different cubic capacities. Their power and performance allows them to be adjusted to operate both during the day and at night (night mode - silent).
They are characterized by many advantages, such as safety, convenient usage / service / and simple operation.



STERYLIS®
PROFESSIONAL ROOM STERILIZERS

MODEL **ULTRA-220**

Recommended
CUBIC CAPACITY
of the sterilized room

450 m³

WORK MODES:

- Filtration
- **Disinfection UV-C**
- **UV-C disinfection** - silent mode
- **Sterilization** O_3 + UV-C (Auto)

TECHNICAL SPECIFICATIONS:

MODE – STERILIZATION O_3 + UV-C	
Recommended maximum cubic capacity of the sterilized room (to achieve 5 ppm O_3)	**450 m³**
Ozone generator capacity	**20,000 mg/h**
Fan capacity Sterilization mode O_3+UV-C	**290 m³/h**
Noise level – sterilization mode O_3+UV-C	**52 dB(A)**
STANDARD MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**483 J/m²**
Average UV-C radiation dose	**106 J/m²**
Fan performance UV-C disinfection mode	**230 m³/h**
Noise level – disinfection mode UV-C	**50 dB(A)**
SILENT MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**654 J/m²**
Average UV-C radiation dose	**144 J/m²**
Fan performance UV-C disinfection mode (silent)	**170 m³/h**
Noise level – disinfection mode UV-C (silent)	**44 dB(A)**
FILTRATION MODE	
Fan capacity in filter mode	**230 m³/h**
Noise level – filtering mode	**50 dB(A)**
UV lamp	**YES**

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MILOO-ELECTRONICS Sp. z o. o. Stary Wiśnicz 289, 32-720 Nowy Wiśnicz, Poland, NIP: 6792742423, KRS: 0000133715
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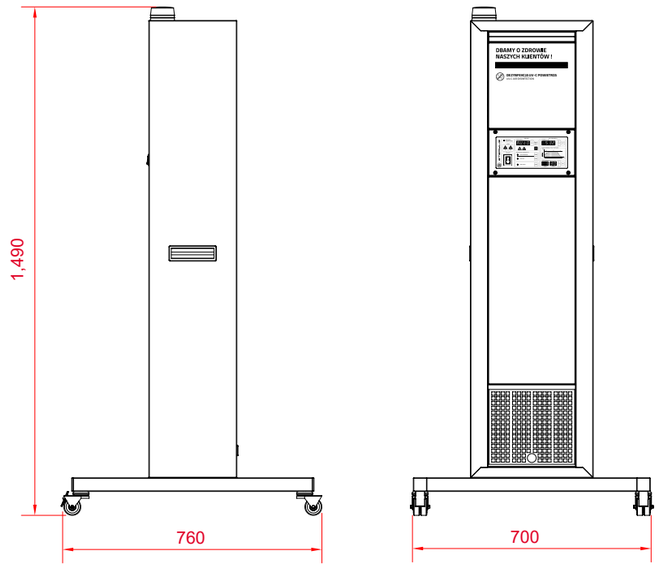
STERYLIS®
PROFESSIONAL ROOM STERILIZERS

MODEL **ULTRA-220**



Type lamps UV	**UV-C sterilization λ = 253.7 nm**
Electrical power of UV lamps	**220 W**
Durability of UV lamps	**9,000 h**
Power of the UV light source	**78 W**
Ozone generator	**YES**
Ozone concentration sensor	**YES**
Ozone destructor	**YES**
Air filtering	**2-stage**
Fan type	**Radial**
Fan engine	**enclosed**
Type	**flowtype**
Controller	**YES**
Automatic mode of operation	**YES (control of sterilization time according to actual ozone concentration readings)**
Pre-defined operating mode	**YES (supervised by the controller according to the user--defined ozone concentration and sterilization time)**
Self-diagnosis	**YES**
Working time counter	**YES (signaling the replacement of filters and UV radiators)**
Power supply	**230 V (AC), 50 Hz**
Rated current	**2.0 A**
Rated power	**470 W**
Power cable length	**3 m / 10 m***
Dimensions (H x W x D)	**1490 x 700 x 760**
Net weight	**26 kg**
Type of housing	**metal, powder-coated**
Transport wheels/handles	**transport wheels**
Additional functions	**signaling safe and excessive ozone levels, detachable power cord**

* – option depending on version

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STERYLIS®
PROFESSIONAL ROOM STERILIZERS

MODEL **ULTRA-330**

Recommended
CUBIC CAPACITY
of the sterilized room

850 m³

WORK MODES:

- Filtration
- **Disinfection UV-C**
- **UV-C disinfection** - silent mode
- **Sterilization** O_3 + UV-C (Auto)

TECHNICAL SPECIFICATIONS:

MODE – STERILIZATION O_3 + UV-C	
Recommended maximum cubic capacity of the sterilized room (to achieve 5 ppm O_3)	**850 m³**
Ozone generator capacity	**30,000 mg/h**
Fan capacity Sterilization mode O_3+UV-C	**410 m³/h**
Noise level – sterilization mode O_3+UV-C	**55 dB(A)**
STANDARD MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**575 J/m²**
Average UV-C radiation dose	**141 J/m²**
Fan performance UV-C disinfection mode	**290 m³/h**
Noise level – disinfection mode UV-C	**49 dB(A)**
SILENT MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**901 J/m²**
Average UV-C radiation dose	**221 J/m²**
Fan performance UV-C disinfection mode (silent)	**185 m³/h**
Noise level – disinfection mode UV-C (silent)	**33 dB(A)**
FILTRATION MODE	
Fan capacity in filter mode	**290 m³/h**
Noise level – filtering mode	**49 dB(A)**
UV lamp	**YES**

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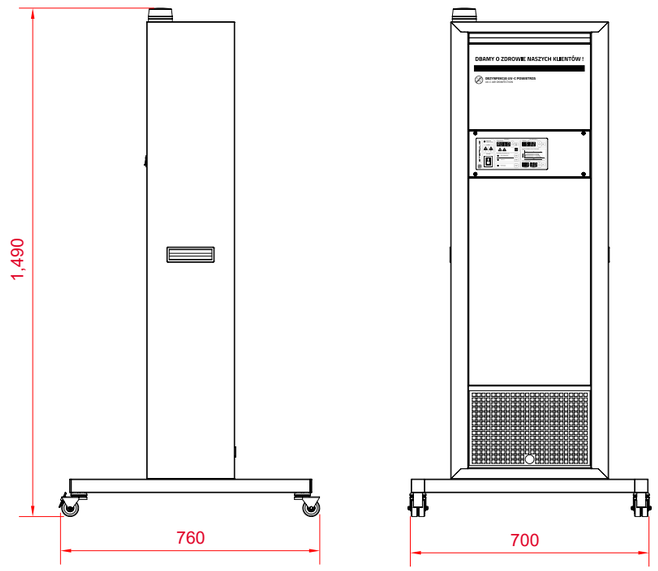
MODEL **ULTRA-330**



Type lamps UV	**UV-C sterilization λ = 253.7 nm**
Electrical power of UV lamps	**330 W**
Durability of UV lamps	**9,000 h**
Power of the UV light source	**118 W**
Ozone generator	**YES**
Ozone concentration sensor	**YES**
Ozone destructor	**YES**
Air filtering	**2-stage**
Fan type	**Radial**
Fan engine	**enclosed**
Type	**flowtype**
Controller	**YES**
Automatic mode of operation	**YES (control of sterilization time according to actual ozone concentration readings)**
Pre-defined operating mode	**YES (supervised by the controller according to the user--defined ozone concentration and sterilization time)**
Self-diagnosis	**YES**
Working time counter	**YES (signaling the replacement of filters and UV radiators)**
Power supply	**230 V (AC), 50 Hz**
Rated current	**2.9 A**
Rated power	**670 W**
Power cable length	**3 m / 10 m***
Dimensions (H x W x D)	**1490 x 700 x 760**
Net weight	**36 kg**
Type of housing	**metal, powder-coated**
Transport wheels/handles	**transport wheels**
Additional functions	**signaling safe and excessive ozone levels, detachable power cord**

* – option depending on version

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STERYLIS®
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MODEL **ULTRA-440**

Recommended
CUBIC CAPACITY
of the sterilized room

850 m³

WORK MODES:

- Filtration
- **Disinfection UV-C**
- **UV-C disinfection** - silent mode
- **Sterilization** O_3 + UV-C (Auto)

TECHNICAL SPECIFICATIONS:

MODE – STERILIZATION O_3 + UV-C	
Recommended maximum cubic capacity of the sterilized room (to achieve 5 ppm O_3)	**850 m³**
Ozone generator capacity	**30,000 mg/h**
Fan capacity Sterilization mode O_3+UV-C	**900 m³/h**
Noise level – sterilization mode O_3+UV-C	**61 dB(A)**
STANDARD MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**359 J/m²**
Average UV-C radiation dose	**90 J/m²**
Fan performance UV-C disinfection mode	**680 m³/h**
Noise level – disinfection mode UV-C	**58 dB(A)**
SILENT MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**421 J/m²**
Average UV-C radiation dose	**105 J/m²**
Fan performance UV-C disinfection mode (silent)	**580 m³/h**
Noise level – disinfection mode UV-C (silent)	**55 dB(A)**
FILTRATION MODE	
Fan capacity in filter mode	**680 m³/h**
Noise level – filtering mode	**58 dB(A)**
UV lamp	**YES**

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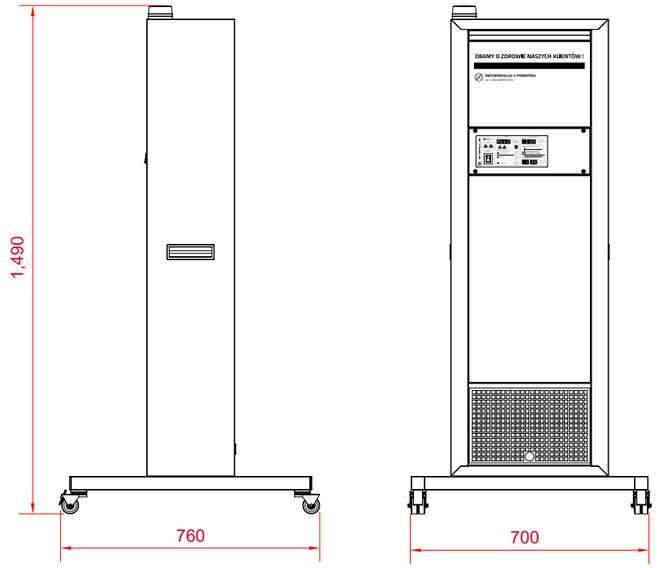
MODEL **ULTRA-440**



Type lamps UV	**UV-C sterilization λ = 253.7 nm**
Electrical power of UV lamps	**440 W**
Durability of UV lamps	**9,000 h**
Power of the UV light source	**157 W**
Ozone generator	**YES**
Ozone concentration sensor	**YES**
Ozone destructor	**YES**
Air filtering	**2-stage**
Fan type	**Radial**
Fan engine	**enclosed**
Type	**flowtype**
Controller	**YES**
Automatic mode of operation	**YES (control of sterilization time according to actual ozone concentration readings)**
Pre-defined operating mode	**YES (supervised by the controller according to the user--defined ozone concentration and sterilization time)**
Self-diagnosis	**YES**
Working time counter	**YES (signaling the replacement of filters and UV radiators)**
Power supply	**230 V (AC), 50 Hz**
Rated current	**3.5 A**
Rated power	**810 W**
Power cable length	**3 m / 10 m***
Dimensions (H x W x D)	**1490 x 700 x 760**
Net weight	**48 kg**
Type of housing	**metal, powder-coated**
Transport wheels/handles	**transport wheels**
Additional functions	**signaling safe and excessive ozone levels, detachable power cord**

* – option depending on version

MILOO ELECTRONICS
MILOO-ELECTRONICS Sp. z o. o. Stary Wiśnicz 289, 32-720 Nowy Wiśnicz, Poland, NIP: 6792742423, KRS: 0000133715
tel.: +48 14 662 19 55, www.sterylis.com

STERYLIS®
PROFESSIONAL ROOM STERILIZERS

MODEL **ULTRA-550**

Recommended
CUBIC CAPACITY
of the sterilized room

1050 m³

WORK MODES:

- Filtration
- **Disinfection UV-C**
- **UV-C disinfection** - silent mode
- **Sterilization** O_3 + UV-C (Auto)

TECHNICAL SPECIFICATIONS:

MODE – STERILIZATION O_3 + UV-C	
Recommended maximum cubic capacity of the sterilized room (to achieve 5 ppm O_3)	**1,050 m³**
Ozone generator capacity	**40,000 mg/h**
Fan capacity Sterilization mode O_3+UV-C	**1,180 m³/h**
Noise level – sterilization mode O_3+UV-C	**57 dB(A)**
STANDARD MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**266 J/m²**
Average UV-C radiation dose	**79 J/m²**
Fan performance UV-C disinfection mode	**900 m³/h**
Noise level – disinfection mode UV-C	**54 dB(A)**
SILENT MODE – UV-C DISINFECTION	
Initial maximum UV-C radiation dose	**352 J/m²**
Average UV-C radiation dose	**104 J/m²**
Fan performance UV-C disinfection mode (silent)	**680 m³/h**
Noise level – disinfection mode UV-C (silent)	**52 dB(A)**
FILTRATION MODE	
Fan capacity in filter mode	**900 m³/h**
Noise level – filtering mode	**54 dB(A)**
UV lamp	**YES**

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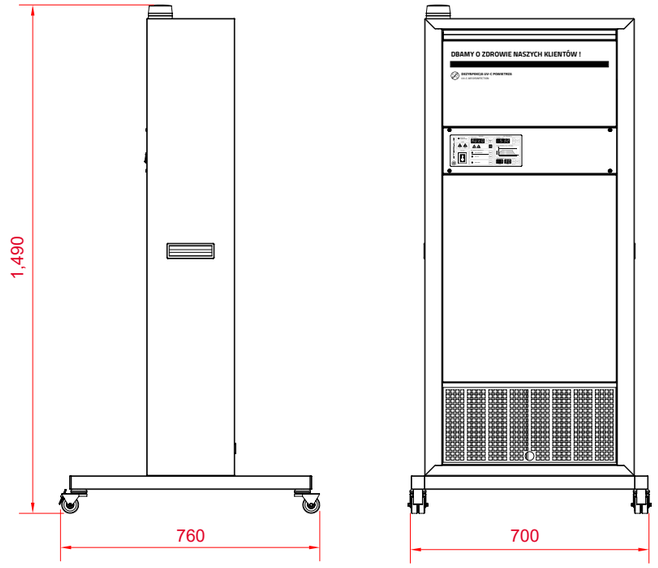

Type lamps UV	**UV-C sterilization λ = 253.7 nm**
Electrical power of UV lamps	**550 W**
Durability of UV lamps	**9,000 h**
Power of the UV light source	**196 W**
Ozone generator	**YES**
Ozone concentration sensor	**YES**
Ozone destructor	**YES**
Air filtering	**2-stage**
Fan type	**Radial**
Fan engine	**enclosed**
Type	**flowtype**
Controller	**YES**
Automatic mode of operation	**YES (control of sterilization time according to actual ozone concentration readings)**
Pre-defined operating mode	**YES (supervised by the controller according to the user--defined ozone concentration and sterilization time)**
Self-diagnosis	**YES**
Working time counter	**YES (signaling the replacement of filters and UV radiators)**
Power supply	**230 V (AC), 50 Hz**
Rated current	**4.4 A**
Rated power	**1,010 W**
Power cable length	**3 m / 10 m***
Dimensions (H x W x D)	**1490 x 700 x 760**
Net weight	**55 kg**
Type of housing	**metal, powder-coated**
Transport wheels/handles	**transport wheels**
Additional functions	**signaling safe and excessive ozone levels, detachable power cord**

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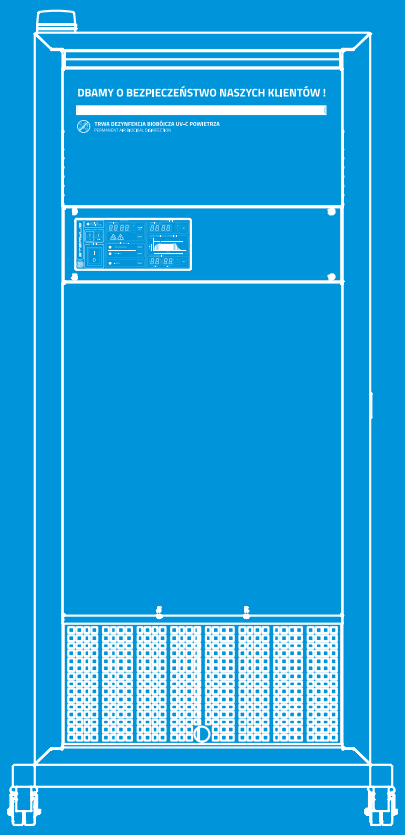

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