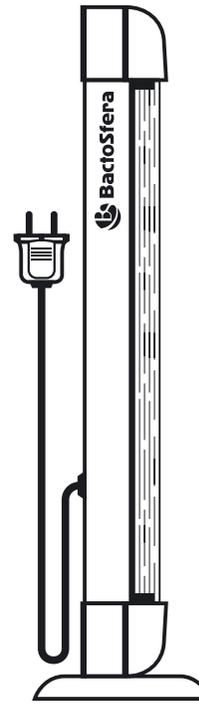


2025

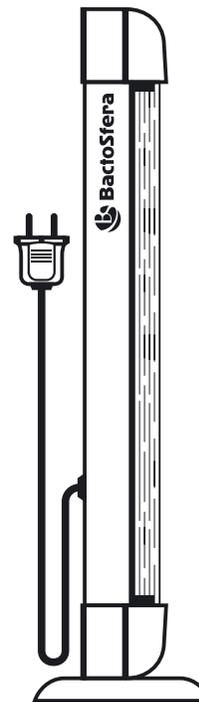


 **BactoSfera**

OBB

BACTERICIDAL IRRADIATORS

2025



 **BactoSfera**

OBB

BACTERICIDAL IRRADIATORS

NOTE



Before using the product, make sure to read its passport.

* The design, construction, and configuration of the product may be changed by the Manufacturer without prior notice to the Buyer.

NOTE



Before using the product, make sure to read its passport.

* The design, construction, and configuration of the product may be changed by the Manufacturer without prior notice to the Buyer.

WARRANTY

The warranty period is **2 years** from the date of purchase of the product (receipt, cash receipt, delivery note, etc.).

The warranty conditions are specified in the warranty certificate, which is an integral part of this passport.

The absence of a warranty certificate gives the manufacturer the right to refuse warranty service.

MANUFACTURER



Manufacturer: BactoSfera®

BACTOSFERA LLC
Ukraine, 03124 Kyiv, Vaclav Havel boulevard 8
+38 044 290 78 78
bactosfera.ua

Importer in EU: BactoSfera®

BACTOSFERA SP. Z O.O.
Poland, 00-634 Warsaw, Progi street 1/1
+48 22 266 22 78
bactosfera.eu



WARRANTY

The warranty period is **2 years** from the date of purchase of the product (receipt, cash receipt, delivery note, etc.).

The warranty conditions are specified in the warranty certificate, which is an integral part of this passport.

The absence of a warranty certificate gives the manufacturer the right to refuse warranty service.

MANUFACTURER



Manufacturer: BactoSfera®

BACTOSFERA LLC
Ukraine, 03124 Kyiv, Vaclav Havel boulevard 8
+38 044 290 78 78
bactosfera.ua

Importer in EU: BactoSfera®

BACTOSFERA SP. Z O.O.
Poland, 00-634 Warsaw, Progi street 1/1
+48 22 266 22 78
bactosfera.eu



DURATION OF QUARTZ TREATMENT

Recommended quartz treatment session	No more than 30 min
Effective quartz treatment session	At least 10 min
Break between sessions	Without break

CERTIFICATION

BactoSfera bactericidal irradiators of the OBB series, manufactured serially, code DKPP 26.60.13-00.00, code UKTZED 9018 20 00 00,

are manufactured according to TU U 26.6-39621673-001:2020 "Ultraviolet bactericidal devices",

comply with the technical regulations and state standards of Ukraine: the Technical Regulation for Medical Devices, approved by the Cabinet of Ministers of Ukraine No. 753 of 02.10.2013, DSTU EN 60601-1:2015, DSTU EN 60601-1-2:2015,

comply with European Regulations, Directives, Standards: European Medical Devices REGULATION (EU) 2017/745, Medical Devices DIRECTIVE 93/42/EEC, Electromagnetic Compatibility DIRECTIVE 2014/30/EU, Low Voltage DIRECTIVE 2014/35/EU, EN 61326-1:2013, EN 61010-1:2010, EN 60601-1:2006, EN 60601-1-2:2015.

14

DURATION OF QUARTZ TREATMENT

Recommended quartz treatment session	No more than 30 min
Effective quartz treatment session	At least 10 min
Break between sessions	Without break

CERTIFICATION

BactoSfera bactericidal irradiators of the OBB series, manufactured serially, code DKPP 26.60.13-00.00, code UKTZED 9018 20 00 00,

are manufactured according to TU U 26.6-39621673-001:2020 "Ultraviolet bactericidal devices",

comply with the technical regulations and state standards of Ukraine: the Technical Regulation for Medical Devices, approved by the Cabinet of Ministers of Ukraine No. 753 of 02.10.2013, DSTU EN 60601-1:2015, DSTU EN 60601-1-2:2015,

comply with European Regulations, Directives, Standards: European Medical Devices REGULATION (EU) 2017/745, Medical Devices DIRECTIVE 93/42/EEC, Electromagnetic Compatibility DIRECTIVE 2014/30/EU, Low Voltage DIRECTIVE 2014/35/EU, EN 61326-1:2013, EN 61010-1:2010, EN 60601-1:2006, EN 60601-1-2:2015.

14

CONTENTS

GENERAL INFORMATION	4
APPLICATION AREA	4
INSTALLATION OF THE IRRADIATOR	5
OPERATIONAL PROCEDURE WITH THE IRRADIATOR	6
RECOMMENDATIONS	6
COMPLETE SET	7
ACCESSORIES	7
TECHNICAL CHARACTERISTICS	8
NOMENCLATURE	10
MOST COMMON MICROORGANISMS KILLED BY THE IRRADIATOR	11
DESCRIPTION OF THE IRRADIATOR	12
REPLACEMENT OF ULTRAVIOLET BACTERICIDAL LAMP	13
QUARTZ TREATMENT DURATION	14
CERTIFICATION	14
WARRANTY	15
MANUFACTURER	15

CONTENTS

GENERAL INFORMATION	4
APPLICATION AREA	4
INSTALLATION OF THE IRRADIATOR	5
OPERATIONAL PROCEDURE WITH THE IRRADIATOR	6
RECOMMENDATIONS	6
COMPLETE SET	7
ACCESSORIES	7
TECHNICAL CHARACTERISTICS	8
NOMENCLATURE	10
MOST COMMON MICROORGANISMS KILLED BY THE IRRADIATOR	11
DESCRIPTION OF THE IRRADIATOR	12
REPLACEMENT OF ULTRAVIOLET BACTERICIDAL LAMP	13
QUARTZ TREATMENT DURATION	14
CERTIFICATION	14
WARRANTY	15
MANUFACTURER	15

GENERAL INFORMATION

The bactericidal irradiator - is an open-type device designed for ultraviolet disinfection (disinfection) of air and surfaces in a room using direct ultraviolet rays with bactericidal action.

It is used in the absence of people in the treated room. The need for ventilation depends on the type of ultraviolet radiation source used: ozone or ozone-free.

It kills (inactivates) viruses, bacteria, mold, fungi, yeast, spores, allergens, and other infectious microorganisms, including influenza viruses of all types (types A, B, C), viruses causing ARD and ARVI, the coronavirus SARS-CoV-2 (2019-nCoV) that causes COVID-19, and the Omicron strain of the coronavirus. The absorbed dose of ultraviolet radiation by the DNA and RNA molecules of microbes leads to their instant death.

Room disinfection is especially effective in preventing diseases during acute respiratory viral infections, epidemics, and flu pandemics.

APPLICATION AREA

Widely used **in households** (homes, apartments, residential and non-residential premises), business (offices, workshops, factories, hotels, restaurants, cafes, stores, hair salons, and other commercial premises), **in healthcare** (clinics, hospitals, maternity hospitals, outpatient clinics, laboratories), **in kindergartens**, schools, universities, and places with large crowds of people (shopping centers, theaters, cinemas, gyms, cafeterias, etc.).

4

GENERAL INFORMATION

The bactericidal irradiator - is an open-type device designed for ultraviolet disinfection (disinfection) of air and surfaces in a room using direct ultraviolet rays with bactericidal action.

It is used in the absence of people in the treated room. The need for ventilation depends on the type of ultraviolet radiation source used: ozone or ozone-free.

It kills (inactivates) viruses, bacteria, mold, fungi, yeast, spores, allergens, and other infectious microorganisms, including SARS-CoV-2 (2019-nCoV) that causes COVID-19, and the Omicron strain of the coronavirus. The absorbed dose of ultraviolet radiation by the DNA and RNA molecules of microbes leads to their instant death.

Room disinfection is especially effective in preventing diseases during acute respiratory viral infections, epidemics, and flu pandemics.

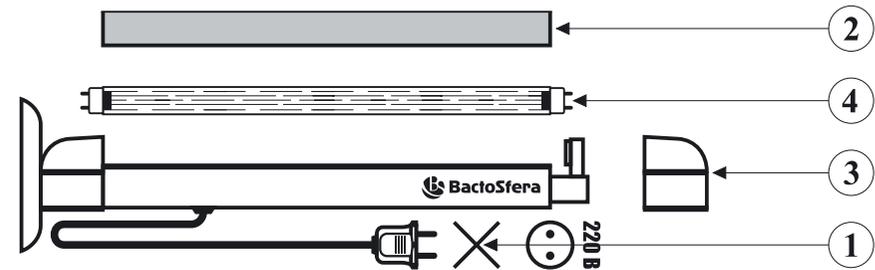
APPLICATION AREA

Widely used **in households** (homes, apartments, residential and non-residential premises), business (offices, workshops, factories, hotels, restaurants, cafes, stores, hair salons, and other commercial premises), **in healthcare** (clinics, hospitals, maternity hospitals, outpatient clinics, laboratories), **in kindergartens**, schools, universities, and places with large crowds of people (shopping centers, theaters, cinemas, gyms, cafeterias, etc.).

4

REPLACEMENT OF ULTRAVIOLET BACTERICIDAL LAMP

1. Disconnect the irradiator from the 220 V electrical network.
2. Remove the protective cover (if available).
3. Remove the plastic cover by pulling it away from the irradiator.
4. Replace the bactericidal lamp. To do this, rotate the lamp until it clicks and remove it from the lamp holder. Then, place the new lamp into the lamp holder and rotate it 45 degrees until it clicks. Put the cover and protective cover back on.

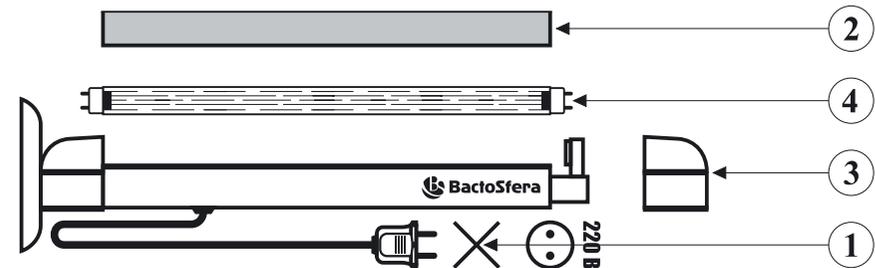


ATTENTION! If the bactericidal lamp is broken, carefully collect all the large parts of the lamp with rubber gloves and sweep up the small shards. Wash the area where the lamp broke with a 1% solution of potassium permanganate. Ventilate the area thoroughly.

13

REPLACEMENT OF ULTRAVIOLET BACTERICIDAL LAMP

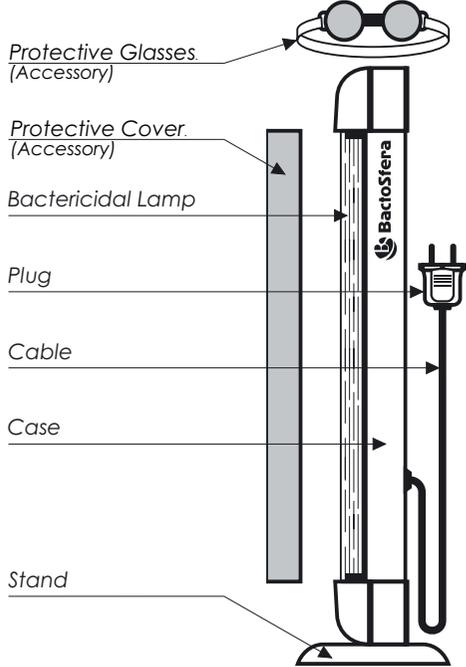
1. Disconnect the irradiator from the 220 V electrical network.
2. Remove the protective cover (if available).
3. Remove the plastic cover by pulling it away from the irradiator.
4. Replace the bactericidal lamp. To do this, rotate the lamp until it clicks and remove it from the lamp holder. Then, place the new lamp into the lamp holder and rotate it 45 degrees until it clicks. Put the cover and protective cover back on.



ATTENTION! If the bactericidal lamp is broken, carefully collect all the large parts of the lamp with rubber gloves and sweep up the small shards. Wash the area where the lamp broke with a 1% solution of potassium permanganate. Ventilate the area thoroughly.

13

DESCRIPTION OF THE IRRADIATOR



12

! PROHIBITED:

- Being in the room during the ultraviolet disinfection session.
- Performing disinfection in the presence of pets.
- Using the disinfectant in a room with plants, aquariums, and terrariums unprotected from ultraviolet radiation (they must be removed or covered with thick fabric).
- Looking at a working bactericidal lamp (this could cause burns to mucous membranes and retina).
- Sunbathing under the ultraviolet rays of the lamp (possible skin burns).
- Using for therapeutic purposes.



INSTALLATION OF THE RADIATOR

Portable (mobile on a stand):

- Place the radiator in the far corner of the room, preferably elevated (on a table, nightstand, windowsill), ensuring that it covers as much of the room as possible, including surfaces such as tables, sofas, chairs, etc.
- If there are no open sightlines in the room, the disinfection process should be carried out sequentially from the most open sections of the room.
- In long rooms (e.g., corridors), the radiator should be placed in the center of the room, aimed at one of the shorter walls, then rotated to the opposite side to perform disinfection again from the center.
- Additionally, the portable disinfection device can be used for item-specific disinfection (e.g., toys, clothes, carpets, tableware, and other everyday household items).

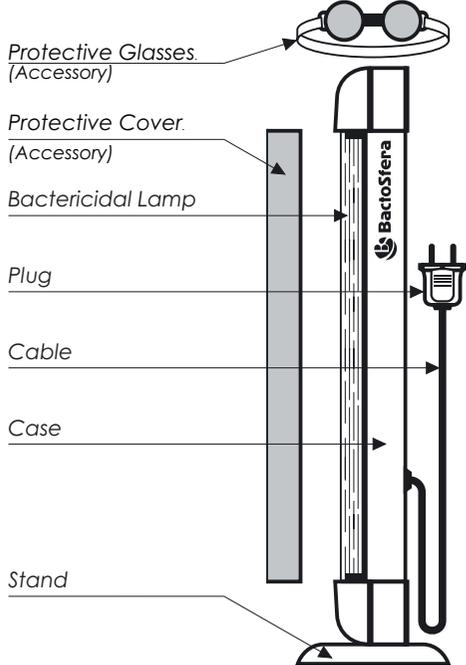
Stationary (wall/ceiling-mounted):

- Mount the radiator horizontally at the center of one wall in the room and secure it with screws at a distance of 20-30 cm from the ceiling. Position it near an outlet or use a network filter. The power cord of the radiator is 3 meters long, which is ideal for standard ceiling heights of 2.5-3 meters.
- The stationary disinfection unit can also be directly connected to the electrical wiring and controlled via a wall switch (ON/OFF).

NOTE! The required number of stationary radiators for a specific room should be calculated based on its square footage and ceiling height.

5

DESCRIPTION OF THE IRRADIATOR



12

! PROHIBITED:

- Being in the room during the ultraviolet disinfection session.
- Performing disinfection in the presence of pets.
- Using the disinfectant in a room with plants, aquariums, and terrariums unprotected from ultraviolet radiation (they must be removed or covered with thick fabric).
- Looking at a working bactericidal lamp (this could cause burns to mucous membranes and retina).
- Sunbathing under the ultraviolet rays of the lamp (possible skin burns).
- Using for therapeutic purposes.



INSTALLATION OF THE RADIATOR

Portable (mobile on a stand):

- Place the radiator in the far corner of the room, preferably elevated (on a table, nightstand, windowsill), ensuring that it covers as much of the room as possible, including surfaces such as tables, sofas, chairs, etc.
- If there are no open sightlines in the room, the disinfection process should be carried out sequentially from the most open sections of the room.
- In long rooms (e.g., corridors), the radiator should be placed in the center of the room, aimed at one of the shorter walls, then rotated to the opposite side to perform disinfection again from the center.
- Additionally, the portable disinfection device can be used for item-specific disinfection (e.g., toys, clothes, carpets, tableware, and other everyday household items).

Stationary (wall/ceiling-mounted):

- Mount the radiator horizontally at the center of one wall in the room and secure it with screws at a distance of 20-30 cm from the ceiling. Position it near an outlet or use a network filter. The power cord of the radiator is 3 meters long, which is ideal for standard ceiling heights of 2.5-3 meters.
- The stationary disinfection unit can also be directly connected to the electrical wiring and controlled via a wall switch (ON/OFF).

NOTE! The required number of stationary radiators for a specific room should be calculated based on its square footage and ceiling height.

5

OPERATING PROCEDURE FOR THE UV STERILIZER

1. Evacuate the room of people, animals, plants, aquariums, terrariums, and any other living beings.
2. Remove the protective cover (if installed).
3. Put on special UV-protective goggles or regular sunglasses.
4. Plug the sterilizer into a 220 V power outlet. The unit will start operating.
5. Leave the room for 10–30 minutes, depending on its volume.
6. Disconnect the sterilizer from the power supply.
7. Replace the protective cover (if installed).
8. Ventilate the room for 10–15 minutes (if a strong ozone odor is present).

The next UV treatment session (e.g., in another room) can be conducted without interruption.

RECOMMENDATIONS

- If the sterilizer does not operate on the first power-on, ensure the lamp is correctly seated in the holder. For this, follow the ultraviolet lamp replacement procedure (page 13).
- After transport in winter or storage in a cold environment, allow the unit to acclimate at room temperature for 1–2 hours before switching it on.
- If white plastic is present in the treated area, position the sterilizer at least 2 meters away, as plastic may yellow over time from UV exposure. Other light-colored surfaces may also yellow (UV aging process).

6

OPERATING PROCEDURE FOR THE UV STERILIZER

1. Evacuate the room of people, animals, plants, aquariums, terrariums, and any other living beings.
2. Remove the protective cover (if installed).
3. Put on special UV-protective goggles or regular sunglasses.
4. Plug the sterilizer into a 220 V power outlet. The unit will start operating.
5. Leave the room for 10–30 minutes, depending on its volume.
6. Disconnect the sterilizer from the power supply.
7. Replace the protective cover (if installed).
8. Ventilate the room for 10–15 minutes (if a strong ozone odor is present).

The next UV treatment session (e.g., in another room) can be conducted without interruption.

RECOMMENDATIONS

- If the sterilizer does not operate on the first power-on, ensure the lamp is correctly seated in the holder. For this, follow the ultraviolet lamp replacement procedure (page 13).
- After transport in winter or storage in a cold environment, allow the unit to acclimate at room temperature for 1–2 hours before switching it on.
- If white plastic is present in the treated area, position the sterilizer at least 2 meters away, as plastic may yellow over time from UV exposure. Other light-colored surfaces may also yellow (UV aging process).

6

MOST COMMON MICROORGANISMS KILLED BY THE STERILIZER

Viruses:

Coronavirus COVID-19 (SARS-CoV-2), Avian influenza H5N1, Swine influenza VSG, Influenza C, Influenza A subtypes (A/H1N1, A/H1N2, A/H3N1, A/H3N2, A/H2N3), Adeno virus type III, Bacteriophage (E. coli), Coxsackie A2, Infectious hepatitis virus, Influenza virus, Rotavirus, Tobacco mosaic virus, Caudovirales, Herpesvirales, Mononegavirales, Nidovirales, Picornavirales, Tymovirales

Bacteria:

Agrobacterium tumefaciens, Bacillus bacteria, Clostridium, Corynebacterium diphtheriae, Dysentery bacilli, Eberthella typhosa, Escherichia coli, Legionella bozemanii, Legionella bacteria, Leptospira caunicola (infectious), Leptospira interrogans, Micrococcus candidus, Pseudomonas aeruginosa, Rhodospirillum rubrum, Salmonella, Sarcina lutea, Shigella dysenteriae, Shigella bacteria, Spirillum rubrum, Staphylococcus bacteria, Vibrio comma, Vibrio cholerae

Spores:

Firmicutes, Endospores, Exospores, Cysts, Bdellovibrio, Myxococcus, Conidiospores, Sporangiospores, Zygomycota, Ascomycota, Basidiomycota, Etiospores, Uredospores, Teliospores, Oomycetes, Rhodophyta, Carpospores, Tetraspores

Yeasts:

Baker's yeast, Brewer's yeast, Confectionery yeast, Saccharomyces cerevisiae, Saccharomyces ellipsoideus, Saccharomyces spp., Shigella-Flexneri (dysentery), Azotobacter, Actinobacteria, Anaerobacter, Heliobacterium, Clostridium, Methylosinus

Fungi:

Blastocladiomycota, Chytridiomycota, Glomeromycota, Microsporidia, Neocallimastigomycota, Zygomycota, Ascomycota, Basidiomycota, Deuteromycota

Molds:

Aspergillus amstelodami, Aspergillus flavus, Aspergillus glaucus, Aspergillus niger, Mucor mucedo, Mucor racemosus, Oospore lacris, Penicillium chrysogenum, Penicillium digitatum, Penicillium expansum, Penicillium roqueforti, Rhizopus nigricans

Protozoa:

Clorella vulgaris, Blue-green algae, E. histolytica, Giardia lamblia, Nematode eggs, Paramecium, Microspora, Mycobacterium tuberculosis, Neisseria catarrhalis, Phytomonas tumefaciens, Proteus vulgaris, Micrococcus sphaeroides

11

MOST COMMON MICROORGANISMS KILLED BY THE STERILIZER

Viruses:

Coronavirus COVID-19 (SARS-CoV-2), Avian influenza H5N1, Swine influenza VSG, Influenza C, Influenza A subtypes (A/H1N1, A/H1N2, A/H3N1, A/H3N2, A/H2N3), Adeno virus type III, Bacteriophage (E. coli), Coxsackie A2, Infectious hepatitis virus, Influenza virus, Rotavirus, Tobacco mosaic virus, Caudovirales, Herpesvirales, Mononegavirales, Nidovirales, Picornavirales, Tymovirales

Bacteria:

Agrobacterium tumefaciens, Bacillus bacteria, Clostridium, Corynebacterium diphtheriae, Dysentery bacilli, Eberthella typhosa, Escherichia coli, Legionella bozemanii, Legionella bacteria, Leptospira caunicola (infectious), Leptospira interrogans, Micrococcus candidus, Pseudomonas aeruginosa, Rhodospirillum rubrum, Salmonella, Sarcina lutea, Shigella dysenteriae, Shigella bacteria, Spirillum rubrum, Staphylococcus bacteria, Vibrio comma, Vibrio cholerae

Spores:

Firmicutes, Endospores, Exospores, Cysts, Bdellovibrio, Myxococcus, Conidiospores, Sporangiospores, Zygomycota, Ascomycota, Basidiomycota, Etiospores, Uredospores, Teliospores, Oomycetes, Rhodophyta, Carpospores, Tetraspores

Yeasts:

Baker's yeast, Brewer's yeast, Confectionery yeast, Saccharomyces cerevisiae, Saccharomyces ellipsoideus, Saccharomyces spp., Shigella-Flexneri (dysentery), Azotobacter, Actinobacteria, Anaerobacter, Heliobacterium, Clostridium, Methylosinus

Fungi:

Blastocladiomycota, Chytridiomycota, Glomeromycota, Microsporidia, Neocallimastigomycota, Zygomycota, Ascomycota, Basidiomycota, Deuteromycota

Molds:

Aspergillus amstelodami, Aspergillus flavus, Aspergillus glaucus, Aspergillus niger, Mucor mucedo, Mucor racemosus, Oospore lacris, Penicillium chrysogenum, Penicillium digitatum, Penicillium expansum, Penicillium roqueforti, Rhizopus nigricans

Protozoa:

Clorella vulgaris, Blue-green algae, E. histolytica, Giardia lamblia, Nematode eggs, Paramecium, Microspora, Mycobacterium tuberculosis, Neisseria catarrhalis, Phytomonas tumefaciens, Proteus vulgaris, Micrococcus sphaeroides

11

Series	Model group	Model subgroup	Model
OBB	OBB 15	OBB 15P	OBB 15P OZONE
			OBB 15P OZONE FREE
			OBB 15P ECO
		OBB 15P-METAL	OBB 15P-METAL OZONE
			OBB 15P-METAL OZONE FREE
			OBB 15P-METAL ECO
		OBB 15S	OBB 15S OZONE
			OBB 15S OZONE FREE
			OBB 15S ECO
	OBB 30	OBB 30P	OBB 30P OZONE
			OBB 30P OZONE FREE
			OBB 30P ECO
		OBB 30S	OBB 30S OZONE
			OBB 30S OZONE FREE
			OBB 30S ECO
	OBB 36	OBB 36P	OBB 36P OZONE
			OBB 36P OZONE FREE
			OBB 36P ECO
		OBB 36S	OBB 36S OZONE
			OBB 36S OZONE FREE
			OBB 36S ECO
	OBB 25	OBB 25P ECO +100%	
		OBB 25P-METAL ECO +100%	
		OBB 25S ECO +100%	
OBB 55	OBB 55P ECO +100%		
	OBB 55S ECO +100%		
OBB 75	OBB 75P ECO +100%		
	OBB 75S ECO +100%		

- It is recommended to use a protective cover for storage and transportation of the sterilizer, which prevents damage to the ultraviolet bactericidal lamp.
- It is recommended to use special UV-protective goggles when switching the sterilizer on and off.

PACKAGE CONTENTS

1. Sterilizer	1 pc.
2. Bactericidal lamp	1 pc.
4. Protective cover (if purchased)	1 pc.
5. UV-protective goggles (if purchased)	1 pc.
6. User manual	1 pc.
7. Warranty certificate	1 pc.
8. Packaging	1 pc.

ACCESSORIES

Protective covers:

- BactoSfera ZK 15/25 (for sterilizers of model groups OBB 15 and OBB 25)
- BactoSfera ZK 30/55 (for sterilizers of model groups OBB 30 and OBB 55)
- BactoSfera ZK 36/75 (for sterilizers of model groups OBB 36 and OBB 75)

- BactoSfera UV BLOCK protective goggles (full-spectrum UV eye protection)

- BactoSfera ultraviolet bactericidal lamps, series BS

Series	Model group	Model subgroup	Model
OBB	OBB 15	OBB 15P	OBB 15P OZONE
			OBB 15P OZONE FREE
			OBB 15P ECO
		OBB 15P-METAL	OBB 15P-METAL OZONE
			OBB 15P-METAL OZONE FREE
			OBB 15P-METAL ECO
		OBB 15S	OBB 15S OZONE
			OBB 15S OZONE FREE
			OBB 15S ECO
	OBB 30	OBB 30P	OBB 30P OZONE
			OBB 30P OZONE FREE
			OBB 30P ECO
		OBB 30S	OBB 30S OZONE
			OBB 30S OZONE FREE
			OBB 30S ECO
	OBB 36	OBB 36P	OBB 36P OZONE
			OBB 36P OZONE FREE
			OBB 36P ECO
		OBB 36S	OBB 36S OZONE
			OBB 36S OZONE FREE
			OBB 36S ECO
	OBB 25	OBB 25P ECO +100%	
		OBB 25P-METAL ECO +100%	
		OBB 25S ECO +100%	
OBB 55	OBB 55P ECO +100%		
	OBB 55S ECO +100%		
OBB 75	OBB 75P ECO +100%		
	OBB 75S ECO +100%		

- It is recommended to use a protective cover for storage and transportation of the sterilizer, which prevents damage to the ultraviolet bactericidal lamp.
- It is recommended to use special UV-protective goggles when switching the sterilizer on and off.

PACKAGE CONTENTS

1. Sterilizer	1 pc.
2. Bactericidal lamp	1 pc.
4. Protective cover (if purchased)	1 pc.
5. UV-protective goggles (if purchased)	1 pc.
6. User manual	1 pc.
7. Warranty certificate	1 pc.
8. Packaging	1 pc.

ACCESSORIES

Protective covers:

- BactoSfera ZK 15/25 (for sterilizers of model groups OBB 15 and OBB 25)
- BactoSfera ZK 30/55 (for sterilizers of model groups OBB 30 and OBB 55)
- BactoSfera ZK 36/75 (for sterilizers of model groups OBB 36 and OBB 75)

- BactoSfera UV BLOCK protective goggles (full-spectrum UV eye protection)

- BactoSfera ultraviolet bactericidal lamps, series BSIt is recommended to use a protective

