

Air Cleaner profiSteril, UV air sterilizer

SKU: OST30100 profiSteril 100 / OST30200 profiSteril 200 / OST30300 profiSteril 300



USER MANUAL

Thank you for purchasing our professional UV air sterilizer.

Please read this user manual carefully before using the device for the first time. Follow all safety warnings and instructions during operation. Not following these warnings and instructions may result in damage to the device and loss of warranty conditions! Take all precautions to avoid fire, electric shock, or other damage to health or property while operating the equipment. Repairs of the air sterilizer may only be performed by an authorized qualified person or an authorized service center. Incorrect handling can lead to the loss of warranty conditions.

Save this user manual for future reference.



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SAFETY INSTRUCTIONS AND WARNINGS


- Entrust the connection of the device to an authorized qualified person who will respect the local electric standards and safety rules for the operation with the electric devices.
- The air sterilizer has a built-in power supply. Never open the cover of the device! There is a risk of electric shock.
- Do not place metal objects or liquid containers on the air sterilizer. This could result in electric shock and damage of the equipment.
- Do not store or operate the air sterilizer near heat sources, such as radiators, power supplies for other electrical appliances, etc.
- Do not place or install the unit on vibrating or unstable surfaces.
- Never cover the ventilation openings!
- Before connecting the appliance to the mains and switching it on, always check that the power cable and its connector are not damaged. A defective or damaged power cord can cause electric shock, permanent damage to health, or irreversible damage to the equipment. If the plug or power cord is damaged, it must be replaced by a qualified technician or an authorized service center.
- When disconnecting the appliance from the mains, always pull the plug, never the power cord itself. Do not connect or disconnect the device to the mains with wet hands!
- If the product is damaged to such an extent that its internal components are visible, never connect the air sterilizer to the mains and do not turn the device on. Contact your dealer or the nearest authorized service center.
- To reduce the risk of fire or electric shock, do not expose this product to weather conditions (rain, snow, etc.) or excessive humidity.
- Connect the product only to a grounded AC outlet with an operating voltage of 220 ~ 240V AC (50 Hz, recommended fuse 10-16A). Prior to connection, make sure that the mains voltage corresponds to the technical specifications of the product.
- Unplug this device during lightning storms or when unused for long periods of time.
- If the air sterilizer has not been used for a long time, acclimatize it to room temperature before use. Water vapor may condense inside the unit and damage it.
- Do not store or operate the device in a humid environment or outdoors.
- The air sterilizer is intended for indoor use.
- Do not touch the device during and/or immediately after operation.
- Safety principles, local regulations and legislation must be observed and adhered to when installing and using the device. This will prevent possible accidents and damages to health and/or property.
- Power cords must be securely fastened out of the reach of unauthorized persons.
- As part of a permanent fixed installation, always secure the air sterilizer with a safety cable or chain that is separately anchored to the wall or supporting structure.
- During installation, make sure that there are no people in the space under the device. The device must be installed or located at least 0.5 meters from flammable materials.
- Provide sufficient space for cooling on each side of the device. A minimum clearance of at least 1 meter is recommended for active cooling vents.
- This air sterilizer is equipped with a germicidal UV light source that emits UV-C radiation. Never switch on the device without the cover fitted! Do not look into the UV light source and ensure that UV-C radiation does not come into contact with the skin. There is a risk of permanent damage to eyes and health!
- Do not switch the air sterilizer on and/or off at short intervals. This significantly reduces the service life of the light sources and the device itself.
- Store and operate the air sterilizer out of the reach of children. Do not leave the device unattended.
- Do not use cleaning sprays or chemicals to clean and/or maintain the equipment. Their residues cause dust, grease and other impurities to settle on the device. Use a dry or damp cloth for cleaning.
- In the event of a fault, contact your dealer or authorized service center. Do not tamper with the device. In case of problems, always consult with an expert.



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- Always handle the air sterilizer with clean and dry hands.
- Do not force the controls (buttons, potentiometers, etc.) and do not subject the device to mechanical pressure.
- Do not operate the air sterilizer near other electronic devices that may cause interference (eg power supply interference, control signal, etc.).
- Repairs may only be carried out by an authorized service center or by professionally trained and qualified persons. Only original spare parts may be used for repairs. Do not carry out any work on the device, as this may cause irreversible damage to the device.
- If the air sterilizer will not be used for a long time, turn the mains switch to the OFF position (if equipped) and disconnect the appliance from the mains.
- Disconnect all connecting and power cables before moving the air sterilizer.
- Keep the original packaging and padding for safe transport and storage of the device.

 **The power supply of the device operates under dangerous voltage. Do not touch the cover of the device and never remove the cover of the device during operation. Always disconnect the device from the mains before maintenance and handling. Danger of electric shock!**


 **Follow the warnings and instructions in this user guide. Instrument operating temperature: 5 ° C (41 ° F) to 35 ° C (95 ° F).**

The product has been certified with the CE mark, which guarantees that the product complies with European Union legislation. Unauthorized work on the device may invalidate the warranty! In case of problems, contact your dealer or authorized service center.



This device is an electrical device that must not be disposed of with normal municipal or household waste. In accordance with the applicable legislation, the electrical equipment must be handed in at a collection point, which will ensure its take-back, transport and recycling or ecological disposal. If in doubt, contact your dealer or local authorities.

Do not carry out any repairs or interventions on the device yourself. The warranty conditions will be lost! Do not make any technical modifications to the device. The warranty conditions will be lost! The warranty does not cover defects or damage caused by improper use of the device or failure to follow the warnings and instructions contained in this manual. Neither the seller nor the manufacturer is liable for any damage, technical defects and personal injury caused by non-compliance with safety recommendations and warnings.

 **Do not operate the device without the cover. Do not look directly at the light source and ensure that it does not radiate directly into the room without protection. Risk of permanent health damage!**

The closed type of radiator is used for indirect irradiation of the room, which can be used in the presence of people. The radiator is ozone-free and does not use any chemicals. Germicidal UV-C light sources are securely hidden in the device through which the air flows. Contaminated air is sucked by the fan into the disinfection chamber, where it is sterilized and is blown back into the room by the fan.

The use of germicidal lamps is one of the most effective methods of disinfection. Due to the high efficiency of germicidal lamps, they are needed wherever high quality microbiological purity is required.



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WARNING



- Observe strict safety precautions and follow the instructions in this user manual when installing, maintaining, and handling the air sterilizer.
- UV-C light sources emit high-intensity germicidal radiation, which can cause burns and conjunctivitis. Skin and eyes must not be exposed to direct or reflected unfiltered radiation.
- Disconnect the air sterilizer from the mains before handling the device.
- Light sources contain mercury. Take extra care when handling and replacing them.
- There is a risk of electric shock during installation, maintenance and handling of the air sterilizer.
- Installation, maintenance and handling of the device may only be performed by a qualified person.
- Protective equipment (protective suit, goggles, gloves, respirator, etc.) must be worn when handling the device and replacing light sources.

Improper handling of the air sterilizer can result in:

- Danger of exposure to UV-C radiation.
- Danger of electric shock.
- Danger of inhaling mercury vapors.

In the event of exposure to UV-C radiation, electric shock or inhalation of mercury vapors, seek professional medical attention immediately.



Protection class I
Supply voltage 220 ~ 240V AC / 50 Hz



The device is intended for indoor use



Do not open the cover of the device during operation



Protection class IP20 (protect against increased dust, moisture and other polluted environments)

PRODUCT DESCRIPTION

Air Cleaner profiSteril is designed to eliminate microbes, bacteria and viruses in the air. The device ensures fast and effective air disinfection in social, cultural, educational, sports, entertainment, gastronomic, accommodation, public and other facilities, including sales and other commercial establishments. At the same time, it can be used in environments where biological materials are used (pharmacies, laboratories, veterinary facilities, chemical and food industries, etc.).

Air Cleaner profiSteril:

- Destroys airborne viruses, bacteria, fungi and bacterial spores and pollens, 99% sterilization of fungi.
- Kills flu virus, COVID-19 virus, polio virus, etc.
- Sterilizes respiratory viruses and fungi that are difficult to disinfect.
- It is more effective than ionizers that do not remove pathogens.
- It has almost maintenance-free operation, easy connection to a 230V socket.



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- Offers the possibility of mounting on the wall, standing on furniture, hanging on a stand or ceiling.

The device uses a fan to suck ambient air into a special chamber equipped with a UV-C germicidal light source. UV-C radiation then irradiates viruses, bacteria and fungi in the flowing air and they are completely killed. The intensity of the UV-C lamp and the time during which the air remains in the disinfection chamber is chosen so that the air discharged from the device is practically free of microorganisms. Lamp life is approx. 8000 hours. Thanks to the circulation in the room, the air is cleaned every 6 hours (depending on the model of the device and the floor area).

ULTRAVIOLET GERMICIDAL IRRADIATION

UGO (ultraviolet germicidal irradiation) is a disinfection method that uses short-wavelength UV-C ultraviolet radiation to eliminate microorganisms by destroying nucleic acids and disrupting their DNA - left them unable to perform vital cellular functions. It has been found that the wavelength range from 250 nm to 270 nm is the radiation with the highest germicidal efficiency. The germicidal effect of UV-C radiation is the absorption of UV radiation energy by nucleic acids and proteins. The absorbed energy induces chemical reactions in the cell nuclei and thus destroys microorganisms. TÜV certified lamps used in the profiSteril emit maximum of their germicidal energy in the range of 250 to 270 nm.

UV RADIATION

Ultraviolet (UV) radiation is part of an electromagnetic spectrum similar to X-rays, radio waves, or visible light. For practical purposes, UV radiation is divided into three range types:

UV-A radiation (400-315 nm) is contained in the radiant energy from the sun. Activates photochemical and pigmentation processes. Its erythemal effect is not important.

UV-B radiation (315–280 nm) is mainly used in therapy. It produces provitamin D and causes pigmentation and erythema effect (reddening of the skin).

UV-C radiation (280–100 nm) has a strong germicidal and embryocidal effect. May cause skin burning (erythema effect) and conjunctivitis (conjunctive effect). UV-C radiation can be produced in germicidal lamps by passing an electric arc through low-pressure mercury steam (germicidal radiators). Radiation with a wavelength below 200 nm creates ozone in the air. To prevent this harmful effect, the TÜV-certified germicidal lamps used in our devices are enclosed in a bulb made of special quartz glass, which has a high transmittance for germicidal radiation. It also absorbs unwanted UV radiation at a wavelength below 200 nm.

UNPACKING THE DEVICE

ATTENTION! Immediately after unpacking the air sterilizer, check the contents of the package and the supplied accessories. If the device is damaged during transport or the delivery is incomplete, contact your dealer immediately. If you find damage to the shipping container, notify the carrier immediately and document any damage to the box or device itself. Save the original packaging and padding for possible further transport or storage of the device. In the event of a complaint or return of goods, the device must be delivered in the original packaging.



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If the device has been exposed to significant temperature changes (eg during transport or storage), allow the device to acclimatize to room temperature after unpacking. Sudden changes in temperature can cause water vapor to condense inside the unit and damage it when connected.

POWER SUPPLY

The label on the back of the air sterilizer shows the connection values of the device power supply. Check that the mains voltage corresponds to the specifications of the air sterilizer. If the device is connected to the mains with a voltage other than that specified on the device, permanent damage to the power supply or the entire device may occur. Do not connect the device to the mains using an unstable voltage source or dimmer.



Only connect the air sterilizer to a protected and grounded electrical circuit. **Risk of electric shock or fire!**

INSTALLATION

This air sterilizer is designed to be hung, placed on a solid surface or installed on a stand. Use the recommended accessories for safe installation. When hanging the product, secure the secondary safety sling (chain, cable, etc.) with the appropriate load capacity. The delivery includes a wall mounting kit.

Recommended accessories:

Air Cleaner furniture stand for profiSteril (order number OST30010)

Air Cleaner stand for profiSteril (order number OST30020)

Air Cleaner chain mounting kit for suspension (order number OST30030)

Air Cleaner cable mounting kit for suspension (order number OST30040)

ATTENTION! Please observe the relevant local standards and safety regulations during installation! Only an authorized and qualified technician or dealer may install the device!

- The installation of the device must be carried out in such a way that the supporting structure holds 10 times the weight of the device for 1 hour without any damage or deformation.
- Use only the mounting kit supplied with the appliance to hang the air sterilizer on the wall. For suspension on the ceiling or other structure, use suspension cables or chains recommended by the manufacturer.
- The air sterilizer must always be secured with a secondary safety element, such as a safety cable or chain. This secondary safety lock must prevent the device from falling off the supporting structure in the event of damage or failure of the main suspension.
- Before installing the air sterilizer, make sure that no unauthorized persons move in the area under the device.
- The system operator must ensure that the installation, connection and operation of the system is approved by a specialist. All safety and technical standards must be observed.
- The operator must ensure regular annual inspections of the suspension and the technical condition of the device.
- The device must be installed out of the reach of unauthorized persons. Unauthorized persons must not move or sit in the area under the air sterilizer.
- Disconnect the device from the mains during installation or possible handling of the air sterilizer.

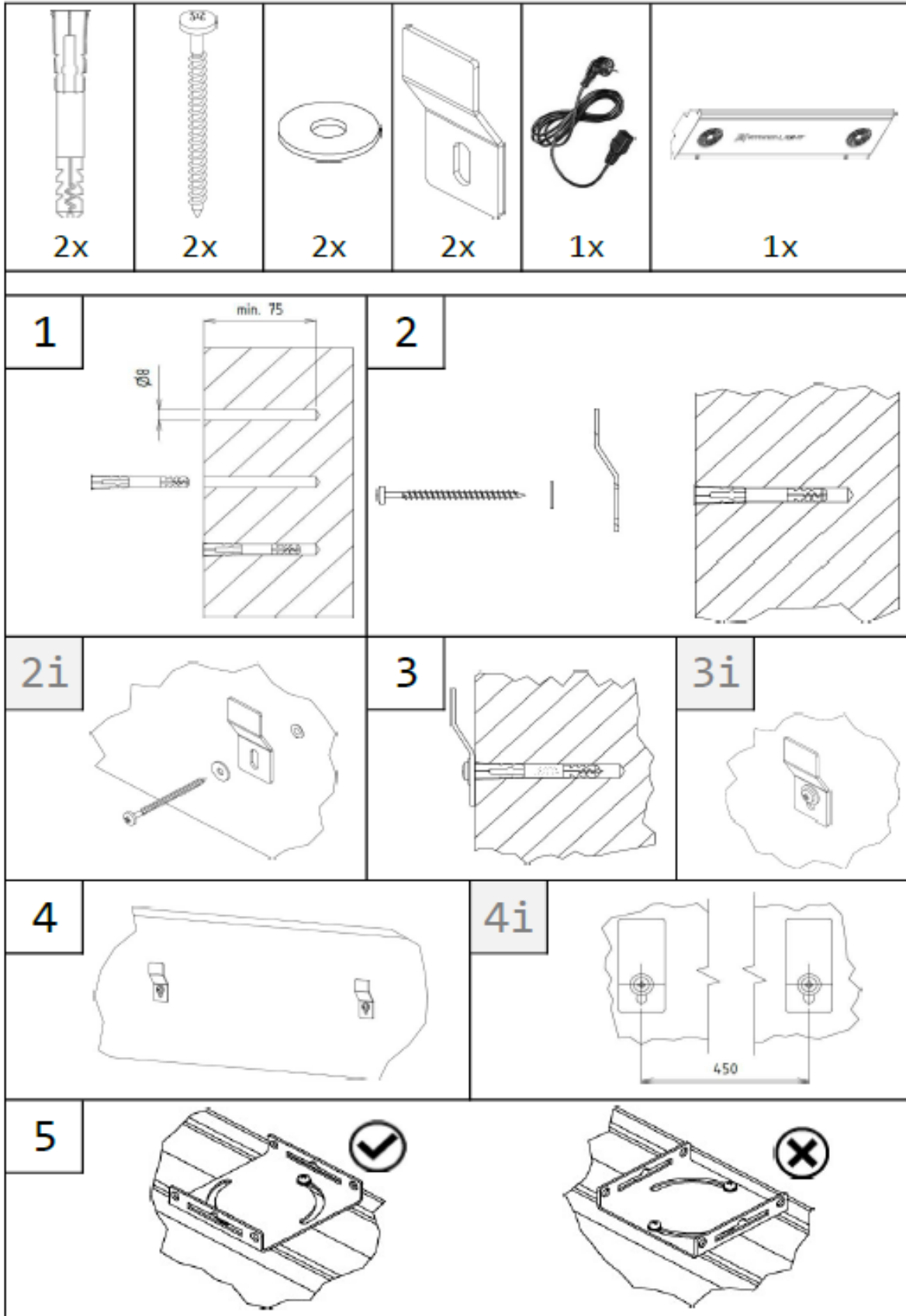
When installing on a wall, follow the illustrations on the following pages.

Check the contents of the device package according to the illustrations below.



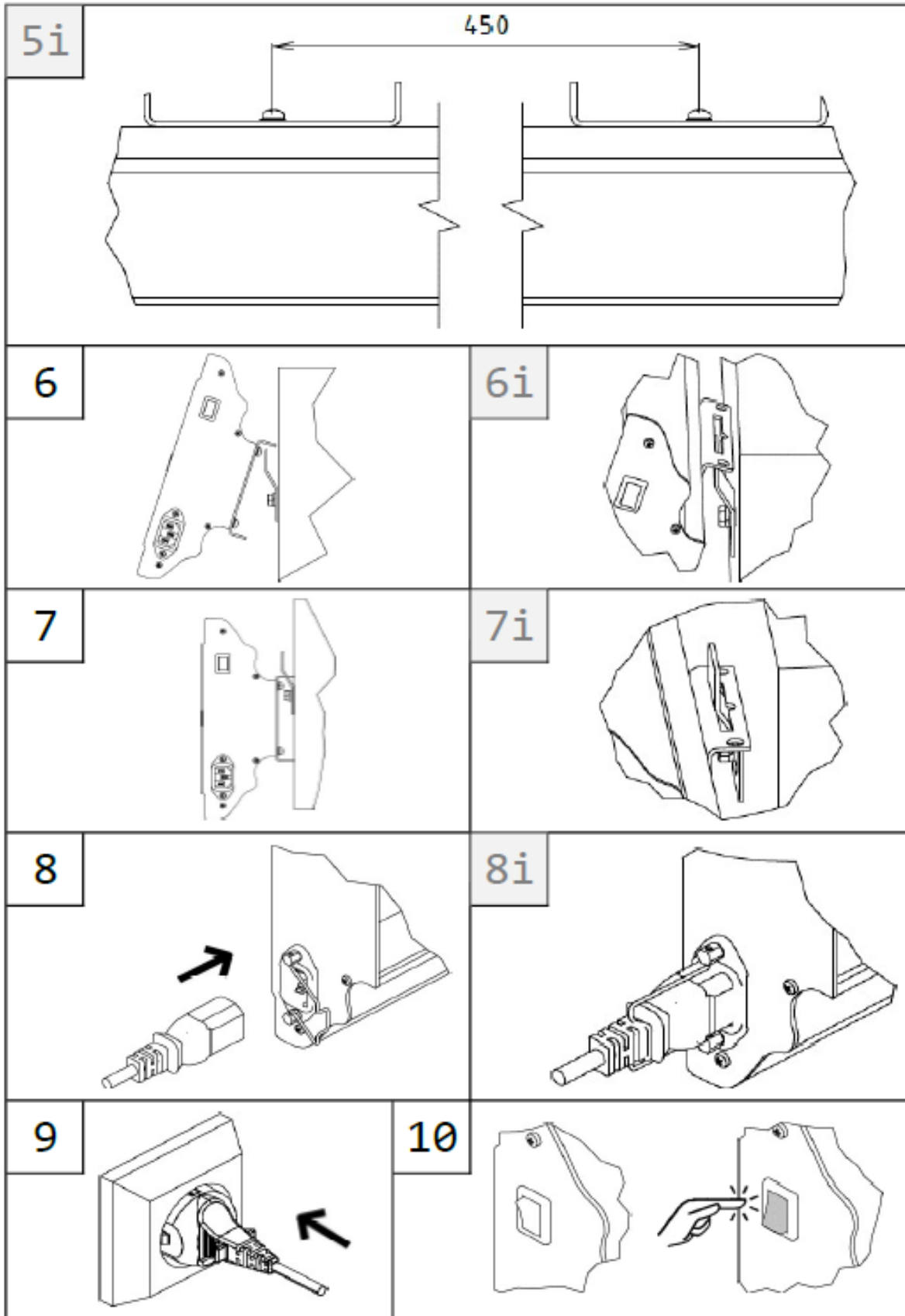
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Air  Cleaner



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OPERATING INSTRUCTIONS

After installing the device, connect the air sterilizer to the mains.

Switch on the appliance using the mains switch on the side of the appliance.

After approx. 8000 hours of operation, the UV-C light source(s) must be replaced. Before replacing them, switch off the air sterilizer and disconnect it from the mains. Unscrew the cover of the device and replace the UV-C tubes with new ones of the same type with the same technical parameters. Screw the device cover back on.

Never connect the device to the mains or switch it on when the cover of the device has been removed!

CLEANING AND MAINTENANCE

The inside and outside of the device must be cleaned regularly to optimize the performance of the device. The frequency of cleaning depends on the environment in which the air sterilizer is used. The device should not be used in humid, smoky, dusty or otherwise polluted environments, where there may be a greater accumulation of dirt on fans, vents and light sources.

- During maintenance, make sure that unauthorized persons do not move in the area under the installed air sterilizer.
- Check if the supporting structure (ceiling, stand, lattice girder, etc.) on which the air sterilizer is installed is not deformed in any way.
- The mains cable must be in perfect condition. If damage is found, it should be replaced immediately by a qualified person.
- There must be through vents for the device to function properly. Cleaning should take place once a month. Clean the ventilation openings with a vacuum cleaner or air compressor.
- The interior of the appliance should be cleaned with a vacuum cleaner or air compressor at least once a year.
- Clean the air sterilizer cover with a soft cloth (a damp cloth will suffice, if heavily soiled, use a common glass cleaner).
- Dry the cover thoroughly before switching on the device.

We recommend cleaning of the internal parts of the air sterilizer and replacement of light sources is always carried out by a qualified person or authorized service!

TECHNICAL PARAMETERS

Type	profiSteril 100	profiSteril 200	profiSteril 300
Power voltage	230 V / 50 Hz		
Covered area	43 m ²	80 m ²	180 m ²
Air flow	cca 10 m ³ / hour	cca 20 m ³ / hour	cca 40 m ³ / hour
Power of UV-C	200-280 nm / 4W	200-280 nm / 8W	200-280 nm / 16W
Power of UV-C radiation	1 x 15W	2x 15W	4x 16W
Regulation of air flow	no	no	no
Air circulation	forced	forced	forced
Ventilator noise	17,7 dBA	20,7 dBA	37 dBA
Surface treatment	Powder coating RAL9003		
Dimensions (L x W x D)	75 x 20 x 9 cm		
Weight	5 kg	5,2 kg	5,4 kg



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NOTES



Distribution in CZ and SK:



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aircleanerholland

Morseweg 69

1131 PH Volendam

The Netherlands

E-mail: info@aircleanerholland.com

www.aircleanerholland.com

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