OZON CLEANER

USER MANUAL

ENG 0.01

OZON CLEANER

Dear customer,

by purchasing one of our devices – **OZON CLEANER PRO I, OZON CLEANER PRO II, OZON CLEANER BOX or OZON CLEAN UP** you acquired the perfect device to help you properly and effectively disinfect both residential and non-residential areas. Using our devices comes hand in hand with a list of advantages, such as this being one-time investment, 99,99 % effectivity without using any chemicals, mobility of the device, variability of use, low energy intensity, fully ecological and maintenance-free operation.

USING OUR DEVICE

Our devices are designed for surface cleaning of enclosed areas, e.g., disinfection of offices, medical facilities, retail, industrial or production halls. Before first use of the device make sure to thoroughly read the user manual.

OVERVIEW

The Ozone generator is a device that produces a toxic gas O_3, due to its toxicity its often used to disinfect certain areas and products. The devices are intended for surface disinfection of small or medium sized enclosed areas, but also for bugger areas like halls. The operation of these devices is fairly easy, since the whole disinfection process is micro-computer controlled. In accordance with the size of the room the micro-computer counts the least necessary amount of time that the generator needs to create O_3 gas. After required concentration is achieved, the generator automatically turns off and the ventilation system is turned on. The ventilation system ensures an even flow of the generated gas across the room. After this process is done, the device turns off and the room should be properly aired. After that, the disinfection process is finished. Our devices generate ozone using corona discharge, in capacities about 20 g/ 40 g in an hour. Ozone is suitable for disinfection of spaces and is used in hospitals, means of transport, retail areas or households. Since the ozone gas is produced using high voltage, any of our devices must not be used in humid areas. There must not be any persons, animals or plants in the cleaned room or area. Ozone has very strong oxidizing properties when in higher concentration, and thus may damage surfaces prone to corrosion and may cause degradation of some plastic materials or rubber products. If you are not sure whether these items can withstand the cleaning process or there are items of great or artistic value, we advise removing such items from the cleaned room or area or at least properly covering them to ensure they are safe before the cleaning process.

INSTRUCTION MANUAL FOR PRODUCT: OZONE CLEANER
TYPE DESIGNATION: OZON CLEAN BOX - MED

OZON CLEAN BOX - MED

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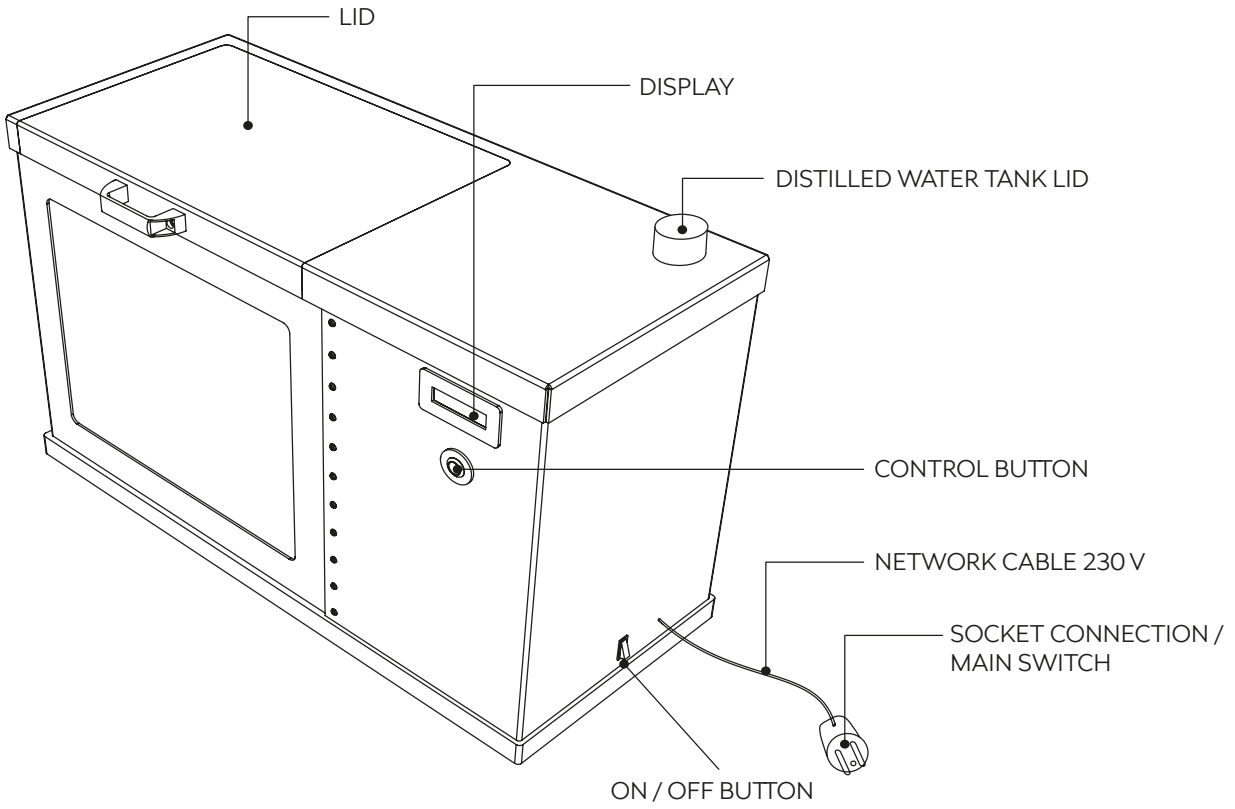
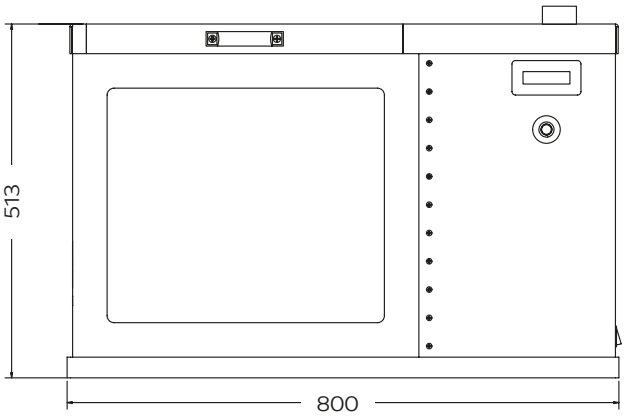
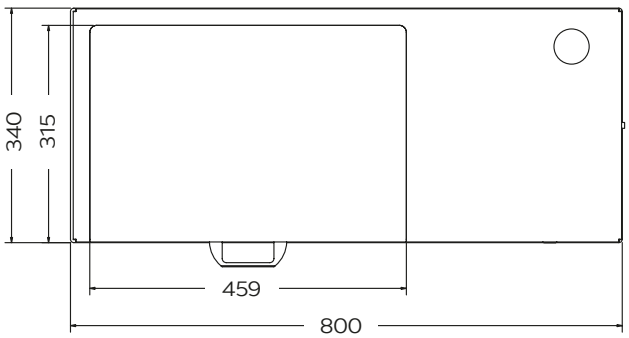
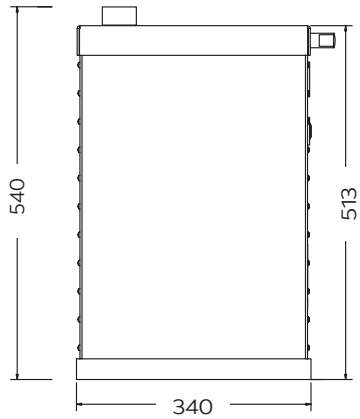








TECHNICAL SPECIFICATIONS	
Power voltage	230 V AC
Frequency	50 Hz
Power consumption	1400 W
Material	stainless steel, plastic, plexiglass
Weight	37 kg
Dimensions	800 × 340 × 625 mm
Cleaning space	490 × 320 × 470 mm
Protection	IP 20
Fuse	thermal
Ozone capacity	10 g / 1 hour
Noise	75 dB max.

INSTRUCTION MANUAL FOR PRODUCT: OZONE CLEANER

TYPE DESIGNATION: OZON CLEAN BOX - MED

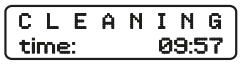
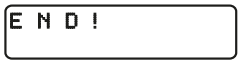
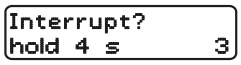
WARNINGS / INSTRUCTION
Humidity levels reach up to 80 % in the area for the inserted objects.
The device cannot be operated by people younger than 18 years old, people with olfactory disorder, people with reduced physical, sense or mental abilities or people with lack of knowledge or experience.
When transferring from colder to warmer temperatures, it is necessary to wait a few minutes, to allow the device to become acclimatized.
The device is intended for specific use only – disinfection of enclosed rooms or areas. It must not be used for any other purpose but the one it was designed for.
Do not place any plants, animals or persons into the box.
Never open the top lid of the box or manipulate the items inside of the box during the cleaning process.
Do not smell near the nozzles from the Ozon Cleaner. Both short-term and long-term inhaling of high concentrations of ozone gas can have serious negative physiological effects. **NEVER INHALE OZONE STRAIGHT FROM THE DEVICE**.
The device is not water-resistant or waterproof and is not suitable for wet of humid environment. The device is to be stored in dry conditions with stable, not high temperatures. Do not use in greasy or dusty environment.
Do not use around explosives or flammable substances.
Do not cover the air inlet and air outlet, before using the device make sure to leave empty space around the device.
Do not use the device if it shows signs of obvious mechanical damage, damage to the power cord, or malfunctioning fans. If in doubt, contact your dealer.
The Ozon Cleaner uses very high voltages, there is a risk of electric shock if handled improperly. Do not disassemble or attempt to repair the device yourself. Do not touch the device with wet or damp hands.
Do not manipulate the device while in operation.
Do not is or stand on top of the device. Do not place any items on top of the device.
Clean the surface of the device with a soft dry cloth, do not use harsh and aggressive cleaning agents.
The manufacturer is not liable for damage caused by improper use of the device.

OZON CLEANER IS NOT WORKING - POSSIBLE CAUSES AND SOLUTIONS:	
The device does not despond when switched on.	Check if all cables are connected and there is no power failure.

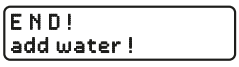
INSTRUCTION MANUAL FOR PRODUCT: OZONE CLEANER

TYPE DESIGNATION: OZON CLEAN BOX - MED

PROCESS INITIATION

Read the entire operating instructions manual carefully before putting the device into operation.	
Place the device in a horizontal position on a solid, stable surface, in the middle of the room. Make sure that there is free space around the device. When transferring from cold to warm, wait a few minutes for the device to acclimatize.	
Check that the rating plate corresponds to the voltage in your electrical outlet. The mains plug must only be connected to an electrical outlet that complies with the relevant standards.	
Plug in the device. The socket connection is the main switch.	
Make sure that there is enough distilled water in the wwater tank or add distilled water if needed. Max. volume of the container is 800 ml.	
Place items into the box and close the lid. Make sure that the lid is tightly closed!	
Turn on the device using the „ON/OFF“ button. The display shows following message: OZON_CLEANER_BOX STEAM V2.1	
After 10 s the display shows the phrase: START.	
Make sure all of the items are placed inside of the box and that there is enough water in the water tank or add if needed and make sure the lid is tightly closed. Next, press the Control button and start the celaning process.	
The callibration and box preparation begins, the display shows the phrase: PREPARATION box preparation.	
After callibration the cleaning proces begins. The cleaning time is factory set for 40 minutes. The display shows: CLEANING time: 09:57	
When the cleaning time is up the device will anounce the beginning of the ozone decomposition.	
After the ozone is fully decomposed the device will anounce the end of the clenaing process.	
The process can be interrupted at any time by pushing the control button for 4 seconds. But all of the ozone must be decomposed before it is possible to open the lid of the device.	
When removed from the device the items can be used again. If the final result is not satisfactory (e.g. persistent odor) you can restart new cleaning process.	

ERROR MESSAGES AND THEIR SOLUTIONS

In case the distilled water container runs out of water duting the process, the device will stop the process and begin the ozone decomposition process and when the process is finished the display shows: Add distilled water (max. amount is 800 ml) and restart the process again, since it was not properly finished.	
The sensor signals the box is open, close the lid and make sure it is tightly closed.	
Always contact your dealer, never attempt to replace the battery yourself.	

THE DEVICE CHECK BEFORE INSTALLATION / FIRST USE

FOLLOW-UP INSPECTIONS

FOR DEVICES: OZON CLEANER PRO I, OZON CLEAN PRO II, OZON CLEAN UP, OZON CLEAN BOX

IT IS NECESSARY TO CHECK

Whether the components of the outer casing and handle are not damaged, whether the plug is not damaged (cracked, burnt, deformed contacts), whether the power cord is secured against being pulled out of the plug and the device and its insulation is not damaged. Condition of cables and connections in the ozonizer.

PROTECTION CIRCUIT INSPECTION

It is necessary to check: That the PE cable is correctly and firmly connected. The cable lengths of the power cable are such that, when the cable is pulled out of the seal, the current conductors are tensioned before the protective conductor.

MEASUREMENT OF INSULATION RESISTANCE

The insulation resistance must be measured on a cold electrical appliance, together with the supply cable, with a constant voltage of 500 V (500 V megohmmeter). The insulation resistance values must not be lower than 2 MΩ for devices of I. and III. protection class and lower than 7 MΩ for devices of II. protection class. The maximum permissible resistance of the PE conductor is 0.1 Ω.

The measurement results can be considered positive if:

Rp ≤ Rw and RPE ≤ RPR – where:

Rp – measured value of insulation resistance

Rw – maximum permissible value of insulation resistance

Rpe – maximum permissible conductor resistance

Rrr-w – maximum permissible resistance of the PE conductor

Ozonizer inspection intervals:

I. category – every 6 months; (short-term operation several times a month)

II. category – every 4 months; (frequent operation 1-3 times a day)

III. category – every 2 months; (continuous operation in several shifts) categories according to: PN-88/E-08400/10; electric hand tools; control tests during operation.

Warning: The stated intervals of regular inspections must be reduced by half for ozonizers operated in conditions of increased risk of mechanical damage, operated in humid areas, difficult conditions, etc.

HAZARDS WITH ELECTRICAL EQUIPMENT

▶ Before each operation, make sure that:

- o The voltage indicated on the type plate of the device corresponds to the mains voltage
- o The power supply is suitable for use with the device and whether it is earthed
- o The power plug fits the electrical outlet

▶ If the device makes unusual noises or produces unusual smells, stop the device immediately, unplug it from the power supply and contact your dealer.

▶ Do not carry out any repairs on the device, always have every service done by your dealer or manufacturer.

▶ Do not disconnect and then reconnect the device from the mains during operation.

▶ Do not stretch or in any way do not burden the power cord.

▶ Do not use the device if it shows signs of obvious mechanical damage, damage to the power cord, or malfunctioning fans. If in doubt, contact your dealer.

▶ Do not use around explosives or flammable substances.

▶ The device is not water-resistant or waterproof and is not suitable for wet of humid environment. The device is to be stored in dry conditions with stable, not high temperatures. Do not use in greasy or dusty environment.

▶ OZON CLEANER PRO I, OZON CLEANER PRO II, OZON CLEAN UP, OZON CLEAN BOX uses very high voltages, there is a risk of electric shock if handled improperly. Do not disassemble or attempt to repair the device yourself. Do not touch the device with wet or damp hands.

▶ Unplug the device during storms to prevent damage in case lightning struck.

▶ Do not immerse the device in water or flood it with water, do not clean with water or steam.

HAZARDS DURING USE

Before starting the disinfection process in the area, make sure to remove all plants, animals and ask all persons to leave the room. During the entire process of the disinfection there must not be any live persons, animals or plants to prevent serious negative health effects for both humans and animals, that may result in death, or to prevent withering of the plants. Do not enter the room during the disinfection process and ozone decomposition process. If you need to enter the room before the ozone is fully decomposed, make sure to wear carbon filter safety mask. We advise the use of a measuring device to measure the concentration of O_3.

STORAGE CONDITIONS

The PRO II and PRO I devices should be kept in dry, dustless environment, in temperatures between 5 ° C to 40 ° C. The device must be unplugged from the electricity. Preferably, store the device in its original packaging, including polystyrene covers. Do not place anything on top of the devices, do not step on top of the devices and do not stack the devices on top of each other.

DEVICE TRANSPORTATION

The UP device can be moved by hand, weight: 6,5 kg (1 person). The PRO I device can be moved by hand with the use of handles that are installed on both sides of the device, weight: 18,3 kg (2 persons). The wheels installed on the PRO I device are not to be used for moving the device for longer distances and on unlevel surfaces, only use the wheels to set up the device or move it around a room. The PRO II device must be moved using a forklift. Weight of the device is 44,5 kg. The device is set on a euro pallet for easier transportation. The euro pallet is an integral part of the device.

GENERAL HAZARDS

Failure to observe these warnings could result in damage to the device (s) or cause serious injury to the operator (s) / person(s) or even death. The device cannot be operated by people younger than 18 years old, people with olfactory disorder, people with reduced physical, sense or mental abilities or people with lack of knowledge or experience. The installation of the OZON CLEANER PRO I device and CLEANER PRO II device can be executed by a responsible person that is fully acquainted with this manual, the installation of the OZON CLEAN UP (system ceilings) can be executed by person qualified in the field of electronics. The device is intended for specific use only – disinfection of enclosed rooms or areas. It must not be used for any other purpose but the one it was designed for. It is important that the devices are operated by competent and capable persons (physically and mentally) who have been acquainted with the instructions beforehand. All persons who do not meet and do not comply with said criteria must not operate the device, otherwise they are exposed to serious danger We advise the use of personal protective equipment (safety mask with carbon filters and a measuring device to measure the concentration of O_3). Keep away from children. The devices must be installed in accordance with the manufacturer's instructions and with respect for applicable standards. The installer is always responsible for the installation of the device and for respecting the national installation regulations. In no event shall the manufacturer be liable if the installation instructions and the instructions in this manual are not observed properly. In the event of a device failure, do not attempt to repair the device yourself, always contact your dealer or manufacturer. Any incorrect installation or incorrect use of the device can cause serious material or physical injury (that may result in death). The warranty automatically expires in the event of any tampering with the device, removal or bypass of any of the safety features integrated into the devices. Do not smell near the nozzles from the Ozon Cleaner. Both short-term and long-term inhaling of high concentrations of ozone gas can have serious negative physiological effects. NEVER INHALE OZONE STRAIGHT FROM THE DEVICE. Do not cover the air inlets and air outlets. Do not use the device if it shows signs of obvious mechanical damage, damage to the power cord, or malfunctioning fans. If in doubt, contact your dealer. Do not manipulate the device while in operation. Do not is or stand on top of the device. Do not place any items on top of the device. Clean the surface of the device with a soft dry cloth, do not use harsh and aggressive cleaning agents.

WARNING

The device/devices cannot be operated by people with olfactory disorder. It is necessary to leave empty space around the device before operation. Do not check the ozone production by smelling right by the nozzle of the generator. Both short-term and long-term inhaling of high concentrations of ozone gas can have serious negative physiological effects. **NEVER INHALE OZONE STRAIGHT FROM THE DEVICE**.

GENERAL SAFETY

These devices are not water resistant and can only be used inside and in enclosed areas. Under any circumstance, do not let any water into the device. The warranty does not apply for water damage. DO NOT dismantle and try to repair the device yourself. Since the ozone generators use very high voltage, there is a great risk of serious physical injury. Do not touch the device during operation. Do not use the device in very humid environment (relative humidity > 80 %). The recommended area for air cleaning is at least 30 m^3, which avoids strong odor after use. If the devices are not in use, make sure they are unplugged (does not apply for OZON CLEAN UP).

DO NOT USE the device in areas polluted with flammable gas or near explosives.
DO NOT TOUCH the device with wet or moist hands.
DO NOT PLACE the device on wet surfaces.

TROUBLESHOOTING

NO.	RISK	RISK DESCRIPTION	RISK SOLUTION
Prevention from mechanical damage			
1	Loss of stability risk.	Machinery, its components and accessories must be sufficiently stable without risk of overturning, falling or unexpected movement during transport, assembly, dismantling and other activities relating to the machinery.	The device is sufficiently stable, according to the instructions in the manual it is necessary to place it on a flat surface. Overturning requires considerable force. Installation of Ozon Clean Up may only be performed by a qualified person and must follow exactly the instructions in the manual. The PRO II must be moved with the help of a forklift, which may only be done by a qualified person. The device is equipped with a euro pallet, which is an integral part of it. The PRO I can be carried manually, handles are built in for this purpose. The devices are placed in a protective packaging for transport, incl. protective polystyrene fillings.
2	Risk of destruction during operation.	Different parts of the machinery and their joints must be able to withstand the stresses to which they are subjected during use. The Instruction Manual must state the type and frequency of inspections and maintenance to be carried out for security reasons. Where applicable, it must indicate the parts exposed to wear and the criteria for their replacement.	The product is made of durable, non-corrosive materials, and is not intended for outdoor use. The device is covered by a 2-year warranty. If there is a device malfunction during the 2-year warranty period, the device will be replaced piece for piece under warranty. After the expiration of the warranty, it will be resolved with the seller through after-warranty service.
3	Risks caused by falling or ejected objects.	Precautions must be made to avoid risks due to falling or ejected objects.	The generators and mechanical units themselves are inside the device, which is covered with a durable material. If the casing is damaged by dents or even tears, do not use the device and contact your dealer.
4	Risks caused by surfaces, edges and corners.	Accessible parts of the machinery must not have any sharp edges, sharp corners or rough surfaces likely to cause injury, unless their purpose so requires.	The device has sharp corners and edges, care must be taken to avoid injury.
5	Risks caused by moving parts.	Moving parts of the machinery are designed to eliminate any risk of contact which could cause injury, they are fitted with guards or protective equipment.	Protective grilles are installed in front of the fans. The manual states that empty space must be left around the device. If an object is inserted or sucked in, resulting in stopping the fan, the device will be disconnected using a thermal safety fuse.
6	Choice of protection against risks arising from moving parts.	Removable covers, attached covers.	Air inlets and Air outlets are covered with a grill. This grill is firmly mounted to the device and cannot be removed without professional assistance, the generators and mechanical parts are hidden.
7	Risks of uncontrolled movements.	After switching on the device, any movement from the rest position caused by any cause, other than movement caused by the controls, must be prevented or movement must be such as not to cause any danger.	The devices do not move on their own and must be placed on a flat, smooth surface or mounted in the system ceiling structure (applies to CLEAN UP) in a way that they do not come loose and fall.

TROUBLESHOOTING

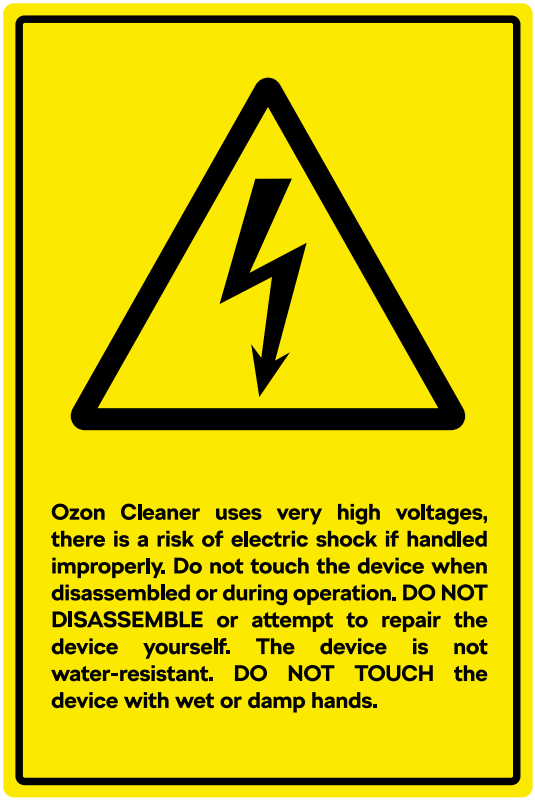
NO.	RISK	RISK DESCRIPTION	RISK SOLUTION
Required properties of protective covers and protective devices.			
1	Attached protective covers.	-	The covers on the devices are firmly screwed on, the fans are protected by a grill. The devices have no removable covers.
Risks related to other hazards.			
1	Electricity supply, according to Government Decree No. 118/2016 Coll.	-	The devices are equipped with warning labels with instructions for operation, the manual lists the possible risks of electric shock and how to prevent them.
2	Static electricity.	The devices are designed to prevent / reduce the accumulation of potentially dangerous electrostatic charges.	The device has a ground pin.
3	Incorrect installation.	Errors that may have occurred during installation.	For PRO I and PRO II devices, installation is limited to proper placement and connection to the mains. The CLEAN UP device must be installed by a person trained in the field of electrical engineering and the applicable decree 50/1978 Coll.
4	Extreme temperatures	Risk of injury due to contact with or proximity to machine parts or materials with high or very low temperatures.	The device does not heat up on the surface, there is no risk of burns.
5	Fire.	The devices are designed to avoid any risk of fire or overheating caused by the device or external influences.	The device is protected against overheating by several security-thermal fuse.
6	Explosion.	The devices are designed to avoid any risk of explosion caused by the devices themselves or external influences.	Does not contain any explosive components.
7	Noise.	The devices are designed to reduce the risks caused by the emission of airborne noise to a minimum.	The devices achieve a maximum noise emission of 75 dB.
8	Vibrations.	The devices are designed to reduce the risks caused by vibrations of the machinery to the lowest level.	The device does not produce vibrations.
9	Radiation.	Unwanted emissions of ionizing radiation from devices are eliminated or reduced to a level that does not have adverse effects on persons.	The devices do not produce any ionizing radiation.
10	External radiation.	The devices are designed so that external radiation does not affect their operation.	The devices are tested and without external radiation.

TROUBLESHOOTING

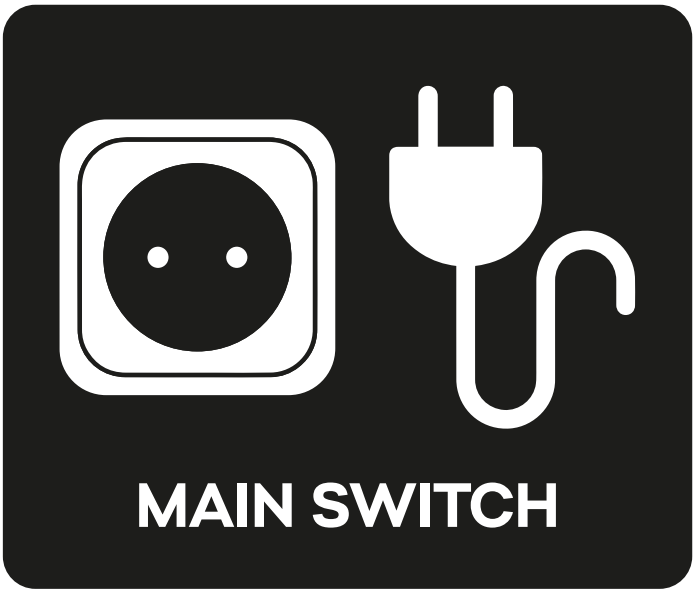
NO.	RISK	RISK DESCRIPTION	RISK SOLUTION
Required properties of protective covers and protective devices.			
11	Laser radiation.	The following precautions should be considered when using laser devices:	The devices do not produce laser radiation.
12	Emissions of hazardous materials and substances.	The devices are designed to avoid the risk of inhalation, ingestion of hazardous materials and substances produced by the device, contact with skin, eyes and mucous membranes.	During the operation of the devices, the operator must not be in the serviced area, the devices are unattended. The operator has a limited time to leave the room, accompanied by audio / optical signals. The devices can be switched off by safety STOP button or main switch. All is marked on the devices with warning stickers and labels. It is described in the manual for each device where the main switch is located.
13	Risk of slipping, tripping or falling.	The devices are designed to protect persons from slipping, tripping or falling on or off these devices or their parts.	It is forbidden to stand, sit or place any items on top of the devices.
14	Lightning strike.		The devices are not intended for outdoor operation. Indoor use only. The device is equipped with an earth pin and has undergone a test process.

HAZARD ICONS AND OTHER SYMBOLS

The device must not be operated by people with olfactory disorder. It is necessary to leave free space around the device prior to operating the device. Do not inhale near the Ozon Cleaner nozzles. Both short-term inhaling of high concentrations and long-term inhaling of low concentrations of ozone gas can have serious negative physiological effects. NEVER INHALE OZONE DIRECTLY FROM THE DEVICE.



Ozon Cleaner uses very high voltages, there is a risk of electric shock if handled improperly. Do not touch the device when disassembled or during operation. DO NOT DISASSEMBLE or attempt to repair the device yourself. The device is not water-resistant. DO NOT TOUCH the device with wet or damp hands.



RECOMMENDED EQUIPMENT

SAFETY MASK
WITH CARBON FILTERS

O_3 GAS CONCENTRATION
MEASURING DEVICE

www.health-city.cz

DO NOT BE AFRAID OF OZONE

Do not dispose of used equipment in unsorted municipal waste, as it contains substances that are harmful to the environment. The device must be handed over to the appropriate collection point and subsequently recycled.

CE

SVEREO
MANUFACTURER OF ILLUMINATED ADVERTISING

ES A EU PROHLÁŠENÍ O SHODĚ

dle směrnice Evropského parlamentu a Rady 2006/42/ES (nařízení vlády č. 176/2008 Sb.)

dle směrnice Evropského parlamentu a Rady 2014/35/EU (nařízení vlády č. 118/2016 Sb.)

dle směrnice Evropského parlamentu a Rady 2014/30/EU (nařízení vlády č. 117/2016 Sb.)

Výrobce: Světelná reklama Ostrava, s.r.o.
Nad Porubkou 1182/1b, 721 00 Ostrava – Svinov, Česká republika
IČ: 29398479, DIČ: CZ29398479

Zařízení: Ozónový čistič

Typové označení: OZON CLEANER PRO II
OZON CLEANER PRO I/BOX
OZON CLEANER UP

Popis zařízení: Zařízení generuje ozon a je určeno k dezinfekci prostor ozonem.

splňuje požadavky:

Směrnice 2006/42/ES (nařízení vlády č. 176/2008 Sb.)

Směrnice 2014/35/EU (nařízení vlády č. 118/2016 Sb.)

Směrnice 2014/30/EU (nařízení vlády č. 117/2016 Sb.)

Seznam harmonizovaných norem použitých při posuzování shody:

ČSN EN 60335-1 ed. 3:2012, ČSN EN 60204-1 ed. 3:2019, ČSN EN ISO 14120:2017, ČSN EN ISO 3746:2011, ČSN EN ISO 11202:2010, ČSN EN 61000-6-1 ed. 2:2007, ČSN EN 61000-6-3 ed. 2:2007, ČSN EN ISO 12100:2011 a ČSN EN 60204-1 ed. 3:2019

Seznam dalších technických norem a předpisů: xxx

Osoba pověřená kompletací technické dokumentace: Patrick Gillar, jednatel

Poslední dvojčíslí roku, v němž bylo označení CE na výrobek umístěno: 20

V Ostravě dne 24. 9. 2020

SVEREO
Nad Porubkou 1182/1b, Ostrava-Svinov
IČO: 29398479

……..
Osoba pověřená vypracováním
prohlášení o shodě

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