AIROZON® 28 ECO

EN

ORIGINAL INSTRUCTIONS
OZONE GENERATOR

TROTEC

TRT-BA-AIROZON®28ECO-TC 220922TRT01-007-EN

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Information on the use of these instructions

Symbols

Warning of electrical voltage
This symbol indicates dangers to the life and health of persons due to electrical voltage.

Warning
This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.

Notice
This signal word indicates important information (e.g. material damage), but does not indicate hazards.

Info
Information marked with this symbol helps you to carry out your tasks quickly and safely.

Follow the manual
Information marked with this symbol indicates that the instructions must be observed.

Wear a protective mask
Information marked with this symbol indicates that you should wear breathing protection.

You can download the current version of these instructions via the following link:

Airozon® 28 ECO

https://hub.trotec.com/?id=44535

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!

Warning
Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in an aggressive atmosphere.
- Do not operate the device near open fire or gas appliances.
- Place the device in an upright and stable position on a horizontal and stable surface.
- Let the device dry out after a wet clean. Do not operate it when wet.
- Do not use the device with wet or damp hands.
- Do not expose the device to directly squirting water.
- Do not expose the device to liquids as it is not protected against splash water.
- Never insert any objects or limbs into the device.
- Do not cover the device during operation.
- Do not sit on the device.
- This appliance is not a toy. Keep away from children and animals.
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- Ensure that all electric cables outside of the device are protected from damage (e.g. caused by animals). Never use the device if electric cables or the power connection are damaged!
- The mains connection must correspond to the specifications in the Technical annex.
- Insert the mains plug into a properly fused mains socket.

- Observe the technical data when selecting extensions to the power cable. Completely unroll the extension cable. Avoid electrical overload.
- Before carrying out maintenance, care or repair work on the device, remove the mains plug from the mains socket. Hold onto the mains plug while doing so.
- Switch the device off and disconnect the power cable from the mains socket when the device is not in use.
- Do not under any circumstances use the device if you detect damages on the mains plug or power cable.
  If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
  Defective power cables pose a serious health risk!
- When positioning the device, observe the minimum distances from walls and other objects as well as the storage and operating conditions specified in the Technical annex.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that there are no loose items or dirt located in the immediate surroundings of air inlet and air outlet.
- Do not expose the device to heat or direct sunlight.
- Never put the device into operation whilst the cover is not completely closed.
- Never remove the panel of the control box during operation. There is a risk of an electric shock.
- Make sure that the suction side is kept free of dirt and loose objects.

Specific safety warnings for the operation of ozone generators

The device uses ozone for odour elimination. It is a gas that – due to its oxidative characteristics – can cause severe health damage if inhaled. Direct exposure to and intake of ozone is toxic for humans, animals and plants. For this reason the following safety measures must be observed by all means:

- Once the device has been started as well as during operation there must be neither people nor animals in the room to be treated. Also remove any plants.
- Leave the room immediately once the device has been started.
- After completion of the odour elimination you must wait until the ozone concentration has dropped below a value of 0.2 mg/m^3 before entering the room again. Check the present concentration by means of an ozone meter (e.g. OZ-ONE) available for purchase from the manufacturer or in a specialist shop. Wear a respirator mask with ozone filter.
- Make sure to seal off all openings of the room to prevent ozone from escaping to the environment.
- Clearly indicate a room's ozone treatment for others and make sure that the room concerned cannot be accessed. Suitable warning signs may be obtained from the manufacturer.
- Ensure a sufficient supply of fresh air and/or an appropriate air exhaust in the rooms once the process has been completed.

Intended use

Only use the device in closed rooms whilst adhering to the technical data and safety instructions.

The device must only be used in industrial and commercial areas, in particular for the professional elimination of odours resulting from fire and water damage.

The device may only be used by especially trained expert staff.

Any use other than the intended use is regarded as misuse.

Reasonably foreseeable misuse

- Never immerse the device in water.
- Do not use the device in immediate vicinity of swimming pools, bathtubs and showers.
- Do not use the device as private individual or at home / in a domestic environment.
- Do not place any objects, e.g. clothing, on the device.
- Do not use outdoors.
- Do not place the device on wet or flooded ground, e.g. near floor drains.
- Do not make any unauthorised modifications, alterations or structural changes to the device.

Personnel qualification

People who use this device must:

- have basic knowledge of how to safely handle electrical equipment.
- have been trained in handling the device and be aware of the dangers that occur when working with the oxidising agent ozone.
- have read and understood the instructions, especially the Safety chapter.

Safety signs and labels on the device

Notice

Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.

The following safety signs and labels are attached to the device:

The following label is attached to the device in German and English.

Safety warnings:



Warning: High ozone concentrations can cause mucosal and respiratory diseases. Set the timer switch to OFF and air out the area after the ozone treatment. Do not remove the panel to prevent the risk of an electric shock.
Please read thoroughly: This ozone generator is only suitable for indoor use when there are no persons or animals! Close all doors and windows of the room to be treated and set the operating time. Ensure that the timer has expired before you enter the room. Now open doors and windows until the ozone smell has disappeared.

Residual risks



Warning of electrical voltage
Work on the electrical components must only be carried out by an authorised specialist company!



Warning of electrical voltage
Before any work on the device, remove the mains plug from the mains socket!
Do not touch the mains plug with wet or damp hands. Hold onto the mains plug while pulling the power cable out of the mains socket.



Warning of electrical voltage
Risk of electric shock!
Risk of an electric shock if the device comes into contact with water!
Do not use this device in the immediate vicinity of bathtubs, showers or swimming pools!



Warning of electrical voltage
Risk of electric shock!
The device is not protected against water.
There is a risk of electric shock!
Never use the device in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!



Warning

Risk of injury caused by inhalation of ozone!
The following symptoms could be indicative of poisoning or an irritation caused by ozone:
- eye irritations – conjunctivitis, stinging and watering eyes
- strong urge to cough
- shortness of breath – chest tightness
- pain while inhaling
- dizziness, light-headedness
- headache
- feeling of faintness

Exit the room to be treated immediately after the device has been switched on.
If there is a case of emergency and you have to enter the room to be treated, always wear a respiratory protective mask with an ozone filter and ensure sufficient fresh air supply. Only enter the room to be treated in cases of emergency whilst the treatment cycle is in progress.
Should you experience one or more of the above symptoms relating to the use of the odour neutraliser, seek medical treatment immediately!

Notice

Do not operate the device without an air filter inserted into the air inlet!
Without the air filter, the inside of the device will be heavily contaminated. This can reduce the performance and result in damage to the device.

Notice

Do not use abrasive cleaners or solvents to clean the device.

Behaviour in the event of an emergency

1. Disconnect the device from the mains in the event of an emergency: Hold onto the mains plug while pulling the power cable out of the mains socket.
2. In an emergency only enter the room to be treated wearing a respirator mask fitted with ozone filter and ensure a sufficient supply of fresh air.
3. Do not reconnect a defective device to the mains.

Information about the device

Device description

Ozone is a very powerful oxidising agent with the ability to eliminate odours. The oxidising agent ozone breaks down the existing molecules. The ozone is generated by the device in an electrical discharge procedure and emitted to the room air at a high concentration. You can use the device to eliminate e.g. cooking smells or musty odours as well as burnt smell. The applied method is similar to the natural air purification during a thunderstorm.

Operating principle

The ozone is generated through high-voltage discharge. The high voltage creates extremely high electric field strengths in the discharge unit. This leads to numerous brief barrier discharges between the electrodes.

The integrated fan sucks in ambient air through the air filter at the rear of the device, leads it past the ozone unit and then emits the air that now contains ozone back into the room.

No chemicals are required for the ozone generation, hence this process causes no damage to the environment. When the device has been switched off and the treatment process has been completed, the remaining ozone in the room air will decompose into normal divalent oxygen (O_2).

Formation, perception and distribution of ozone

The word ozone has become an integral part of our vocabulary and the colourless, toxic gas is part of our everyday life. The irritant effect ozone can have on our eyes and airways has been common knowledge for a few years now, especially since the increasing ozone volume can be attributed to the so-called summer smog. Ozone is further generated during certain industrial processes.

Ozone (chemical symbol: O_3) consists of three oxygen atoms. Ozone is created wherever oxygen molecules (O_2) in the air are turned into atoms (O) due to electrical energy or UV radiation. It is these atoms that can react with the oxygen molecules to form ozone (O_3).

In case of a high solar irradiation ozone forms involving other air pollutants. The nitrogen oxides (NOx) from automobiles, domestic heating systems, power plants and the industry play a major role in this.

Depending on the concentration, ozone can have a very intense smell similar to chlorine, hay or carnations, odours that can be smelled in mountain areas. By nature, the human nose is already vastly superior to most measuring devices: It detects the gas with a concentration of as little as 0.01 ml/m^3. What this means when compared to other irritant gases is that we humans can already detect even minor quantities of ozone which gives us the opportunity to take corresponding precautions to avoid any hazard caused by the gas in due time. However, our nose also has a crucial disadvantage compared with measuring devices: the so-called *habituation effect*. After only a brief period of time spent in an ozone-polluted environment we become so acclimated to the smell that we go noseblind.

The impact of ozone on human beings

The sensitivity to ozone depends on its concentration and varies for each individual. Ozone is an oxidative irritant gas, affecting eyes, nose, pharynx and lungs even at low concentrations. The mucous membranes are unable to stop it seeing as ozone is hardly soluble in water. As a result, the gas can be carried deeper into the lungs than other irritant gases. Concentrations of 200 µg/mm^3 and higher can cause the following symptoms:

- irritations of the mucous membranes, eyes and the respiratory tract
- hoarseness, coughs and headaches
- feeling of constriction behind the sternum
- reduced physical performance

The main damage is caused in the respiratory tract which can lead to breathing difficulties and a reduced respiratory volume. Late complications can include nosebleeds, a bronchitis (or tracheitis) or a pulmonary oedema. But the transition from irritations without lasting consequences to long-term changes with pathological significance is very smooth.

Device depiction





No.	Designation
1	Air outlet
2	Air inlet with air filter
3	Fuse
4	On/off switch
5	Power cable connection
6	Control panel
7	Housing
8	Transport handle

Transport and storage

Notice

If you store or transport the device improperly, the device may be damaged.
Note the information regarding transport and storage of the device.

Transport

Before transporting the device, observe the following:

- Switch the device off.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.
- If the device was previously in use, wait until the end of the calculated regeneration period (see Shutdown chapter) before transporting the device.
- Do not use the power cable to drag the device.
- During transport, protect the device against shifting and vibrations to avoid electrode damage.

After transporting the device, observe the following:

- Set up the device in an upright position after transport.

Storage

When the device is not being used, observe the following storage conditions:

- Store the device in a dry location and protected from frost and heat.
- If required, use a cover to protect the device from invasive dust.

Start-up

Scope of delivery

- 1 x Device
- 1 x Power cable
- 1 x Manual

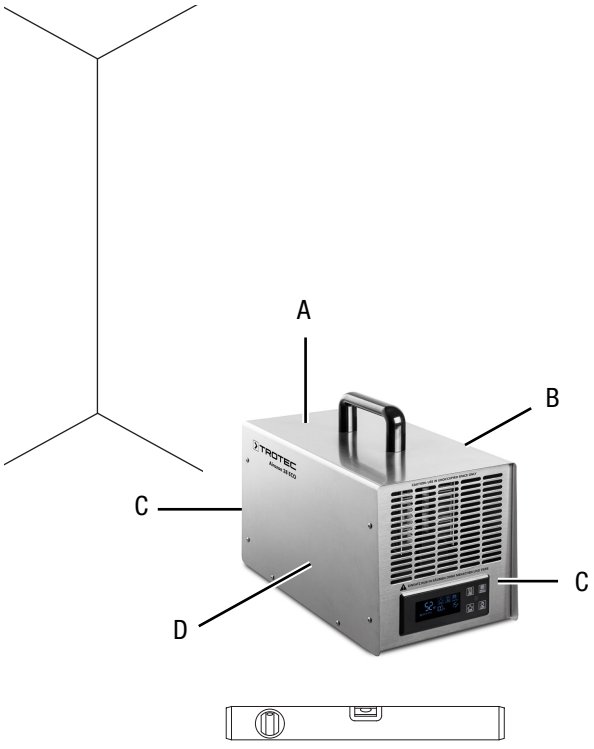
Unpacking the device

Warning
There is a danger of suffocation for children due to packaging material! Keep packaging films and parts away from children. There is a risk of death due to suffocation.

1. Open the cardboard box and take the device out.
2. Completely remove the packaging.
3. Fully unwind the power cable. Make sure that the power cable is not damaged and that you do not damage it during unwinding.

Start-up

When positioning the device, observe the minimum distance from walls or other objects as described in the chapter Technical annex.



- Before starting the device, check the condition of the power cable. If there are doubts as to their sound condition, contact the customer service.
- Place the device in an upright and stable position on a horizontal and stable surface.
- Make sure the device is only placed on firm, dry and vibration-free ground.
- Position the device as close as possible to the centre of the room to ensure an optimum air circulation.
- When positioning the device, keep a sufficient distance to heat sources.
- Make sure that no curtains or other objects interfere with the air flow.
- Do not position the device near inflammable substances and gases.
- Make sure that the air inlet and outlet are not obstructed.
- Make sure that the device is protected from spray water.
- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.
- Make sure that extension cables are completely unrolled.
- For an optimum result of the ozone treatment, the room temperature should be about 5 °C above the usual room temperature.

Connecting the power cable

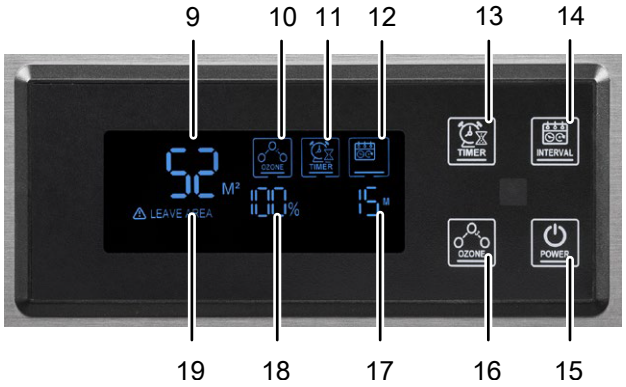
- Insert the mains plug into a properly secured mains socket located outside of the room to be treated. This enables you to switch the device off in case of an emergency without having to access the room.

Operation

Notice

Avoid open doors and windows.

Operating elements



No.	Designation	Meaning
9	*Room size* indication	Indicates the appropriate room size for the selected application
10	*Ozone activated* indication	Illuminated when ozone output is activated
11	*Timer* indication	Illuminated when the timer is activated
12	*Interval* indication	Illuminated when the interval function is activated
13	*Timer* button	Timer setting from 15 – 240 minutes
14	*Interval* button	Switching on the 12-hour or 24-hour operating interval Switching off the interval function
15	*Power* button	Switching the device on or activating standby mode
16	*Ozone* button	Setting the ozone output Press button 1 x = 25 % (7000 mg/h) Press button 2 x = 50 % (14000 mg/h) Press button 3 x = 75 % (21000 mg/h) Press button 4 x = 100 % (28000 mg/h)
17	*Time* indication	Displays time of activated timer
18	*Ozone* indication	Indicates the current ozone output (25 %, 50 %, 75 % or 100 %)
19	*Leave area* indication	Illuminated when a treatment cycle is in progress

Warning of electrical voltage

Risk of electric shock!
The device is not protected against water.
There is a risk of electric shock!
Never use the device in areas where dripping, spraying or running water can enter the device! Never immerse the device in water!

Switching the device on

Warning

Risk of injury caused by ozone!
The device starts to release ozone after one minute.
Leave the room immediately after starting ozone generation to avoid contact with ozone.

Notice

In buildings with own cooling and heating systems, set the fan to circulation mode.

Once you have completely installed the device as described in the Start-up chapter, you can switch it on as follows.

1. Make sure that neither persons nor animals are situated in the room to be treated.
2. Set the on/off switch (4) to **I** to switch the device on.
   ⇨ A short acoustic signal is emitted. *OFF* appears on the display.
3. Press the *Power* button (15) for 3 seconds to activate the display.
   ⇨ The display flashes 3 times and the device goes into standby mode.

Info

The device is preset to 100 % ozone output and a treatment duration of 15 minutes.
The interval function is deactivated.

Setting the treatment intensity

You can set the treatment intensity (25 %, 50 %, 75 % or 100 %) for odour elimination as follows:

1. Press the *Ozone* button (16) to set the desired ozone output.
   ⇨ A beep will confirm that the button has been pressed.
   ⇨ The display shows the selected ozone output in % (25 %, 50 %, 75 % or 100 %).

Setting an interval

If you want the treatment to be repeated cyclically, then you can set a repetition for every 12 or 24 hours. In this case, the treatment is repeated at the selected interval.

1. Press the *Interval* button (14) once to set a 12-hour interval.
   ⇨ "12H" appears on the *Interval* indication (12).
2. Press the *Interval* button (14) a second time to set a 24-hour interval.
   ⇨ "24H" appears on the *Interval* indication (12).
3. Press the *Interval* button (14) again to switch off the interval function.
   ⇨ The *Interval* indication (12) does not show a time (12H/24H).

Setting the timer

Using the timer, you can set the treatment duration after which the device will automatically switch off.

1. Press the *Timer* button (13) to set a treatment duration of maximally 240 minutes.
   ⇨ The treatment duration can only be selected in increments of 15 minutes.
   ⇨ The desired treatment duration appears on the display.

Room size

The *Room size* indication (9) shows the appropriate room size for the selected application. The value changes depending on the ozone concentration and treatment duration settings.

The value is intended for guidance only. The ozone concentration and treatment duration also depend on the ambient conditions, such as room height, furnishings and the type of odour.

When setting up an application, also refer to the table in the Operating parameters chapter.

Preparations for odour neutralisation



Warning

Risk of injury caused by inhalation of ozone!

The following symptoms could be indicative of poisoning or an irritation caused by ozone:
- eye irritations – conjunctivitis, stinging and watering eyes
- strong urge to cough
- shortness of breath – chest tightness
- pain while inhaling
- dizziness, light-headedness
- headache
- feeling of faintness

Exit the room to be treated immediately after the device has been switched on.

If there is a case of emergency and you have to enter the room to be treated, always wear a respiratory protective mask with an ozone filter and ensure sufficient fresh air supply. Only enter the room to be treated in cases of emergency whilst the treatment cycle is in progress.

Should you experience one or more of the above symptoms relating to the use of the odour neutraliser, seek medical treatment immediately!

Carry out the following before starting a treatment cycle:

1. Seal off all openings of the room to be treated. It must be accomplished in a way to prevent ozone from escaping to the environment.
2. Attach warnings that indicate the presence of high ozone concentrations and the related hazards.
3. Make sure that neither humans nor animals are situated in the room to be treated.
4. Position the device in the centre of the room.
5. Connect the power cable and insert the mains plug into a properly secured mains socket located outside of the room to be treated.

Starting the ozone treatment

Please proceed as follows to start the ozone treatment:

✓ The device is in standby mode.

1. Set the desired operating parameters (treatment intensity and duration).
2. Press the *Power* button (15).
   ⇨ A 60-second countdown will begin.
   ⇨ The fan starts.
   ⇨ A regular acoustic warning signal is emitted.
3. If necessary, make changes to the settings by pressing the corresponding button.
   ⇨ When a button is pressed, the countdown starts again.
   ⇨ When the ozone generation starts, the acoustic warning signal stops.
4. Leave the room.
   ⇨ The ozone treatment stops after the time set in the timer has elapsed.

Stopping the ozone treatment prematurely



Warning

Wear a respiratory mask with an ozone filter when you enter the room during the treatment.

Please proceed as follows to stop the ozone treatment before the set treatment duration has elapsed:

1. Press the *Ozone* button (16) for 3 seconds.
   ⇨ The ozone generation is stopped.
   ⇨ The fan keeps running for approx. 60 seconds.

Operating parameters

The required duration for odour elimination can differ depending on the conditions. Factors to be taken into consideration include:

- Type of exposure
- Intensity
- Room size and temperature
- Material composition of the object to be treated
- Exposure time and depth up to which the material has been affected

If an odour elimination is carried out in an unheated room which will later be used at higher temperatures, there is a risk of subsequent evaporation. For this reason the room temperature should always be approx. 5 °C higher during the treatment process as compared to the later usage temperature.

The values below are to serve as a general reference for the determination of the treatment duration:

Type of odour	**Treatment duration given in min**	
	Room size < 30 m³	**Room size 30 – 60 m³**
Car treatment	40	80
Animal, cooking and waste smells	40	80
Smell of burning / chemicals	80	120
Musty odour after water damage	80	120
Smell of burning and secondary effects of organic substances	80 – 350	120 – 700
Amines / amides (ureas), open-chain hydrocarbon compounds (e.g. butyric acid)	360	720
Amino acids / proteins with nitrogen and sulphur (vomit)	360	720

Switch-off

Warning
Risk of injury caused by ozone!
Have especially trained staff check the ozone concentration before entering the room and permitting others to access it.

Warning
Wear a respirator mask with ozone filter when you check whether the ozone concentration has decreased sufficiently by means of a suitable measuring device.

The device was designed to switch off automatically once the set time has elapsed. A corresponding function was integrated by way of a timer.

A certain waiting period must be observed between the device switch-off and accessing the treated room.

At the end of the waiting period the room must be aired out extensively. Open doors and windows. Take the corresponding protective measures (see Safety chapter).

Info
Within this safety period the remaining ozone decomposes (naturally) into divalent oxygen (O_2). Afterwards the ozone concentration should have fallen to below the stipulated MAC value (maximum allowable concentration) of 0.2 mg/m³. Ozone has an average half-life of approx. 30 min to 60 min. The half-life depends on various factors, e.g. on the surface to be treated in the respective room, the temperature and the relative humidity.

Shutdown

Warning of electrical voltage
Do not touch the mains plug with wet or damp hands.

1. Deactivate the display by pressing the *Power* button (15).
   ⇨ After the display is deactivated, the fan and one of the ozone plates inside the device will keep working for another minute in order to cool the device.
2. Set the on/off switch (4) to **0** to switch the device off.
3. Hold onto the mains plug while pulling the power cable out of the mains socket.
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Storage chapter.

Errors and faults

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

The device does not start:

- Check the power connection.
- Check the power cable and mains plug for damage.
- Check the on-site fusing.
- Switch the fuse back on or have a defective fuse replaced by a specialist company.

The device is very loud:

- Position the device on a dry, firm and level surface.
- Check whether the fan and its bearing for damage. If you detect any damage, have the device checked by a certified specialist workshop.

The odour nuisance persists after the completed treatment process with the same intensity:

- Have the device checked by a certified specialist workshop.

The device still does not operate correctly after these checks:

Contact the manufacturer's customer service. If necessary, take the device to an authorised specialist electrical company or to the manufacturer for repair.

Maintenance

Activities required before starting maintenance

Warning of electrical voltage
Do not touch the mains plug with wet or damp hands.

- Make sure that the device is switched off.
- Disconnect the device from the mains by removing the mains plug from the socket. When doing so, be sure to hold the plug, not the cable.

Care and maintenance must be performed on a regular basis to ensure the proper functioning and failure-free operation of the device.

The type and frequency of the maintenance tasks fundamentally depends on the operating environment as well as on the duration and type of use.

In the course of using the device, dust and moisture can accumulate in or on the components which may compromise functionality and efficiency.

In rooms with a high volume of dust and dirt or after fire damage restorations (high moisture level) you should already check the need for maintenance after only a few applications.

In dry surroundings e.g. hotels or as part of car valeting one can assume a maintenance rate of several months.

Criteria for determining the maintenance interval

Device operation takes place:

- frequently and several hours at a time
- on many days per month
- in excessively dirty surroundings
- in humid rooms

Regardless of the described operating conditions you should perform maintenance work if one or more of the following signs become apparent:

- increased noise level during operation of the fan
- heavily contaminated air filter
- dirty electrode (recognizable by: The hissing sound produced during ozone generation dies away.)

Cleaning

In addition to the inspection of the device and its components for proper condition you should also ensure thorough cleaning as part of the regular maintenance activities. To do so, please proceed as described below.

Cleaning the air filter

1. Remove the protective cap from the air inlet.



2. Remove the air filter.



3. Clean the filter with compressed air or a damp cloth. Do not use any solvent-containing or aggressive cleaning agents.

Cleaning the interior

After approx. 2000 hours of operation, the message "CLEAN OZONE PLATE" appears on the display. Clean the interior after a maximum of 2000 hours as follows:

1. Remove the screws at the housing.
2. Clean the device with compressed air or a damp cloth. Do not use any solvent-containing or aggressive cleaning agents. Make sure that no water can enter or remain inside the housing.
3. When the message "CLEAN OZONE PLATE" appears on the display, press the *Ozone* button (16) for 5 seconds.
   ⇨ The message disappears.

Cleaning the housing

Clean the housing with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

Replacing a fuse

The fuse must be replace once it is defective or no longer works correctly.

Notice

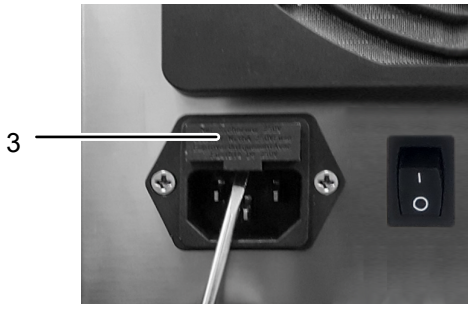
Only install a fuse of the same type in the device.

Info

A replacement fuse is included in the fuse carrier.

Please proceed as follows to replace the fuse:

1. Remove the mains plug from the device.
2. Remove the fuse carrier with the fuse (3) by pulling it out of the device by means of a screwdriver.



3. Dispose of the defective fuse (3) properly.
4. Insert the new fuse (see Technical Data) into the fuse carrier.
5. Insert the fuse holder into the device.

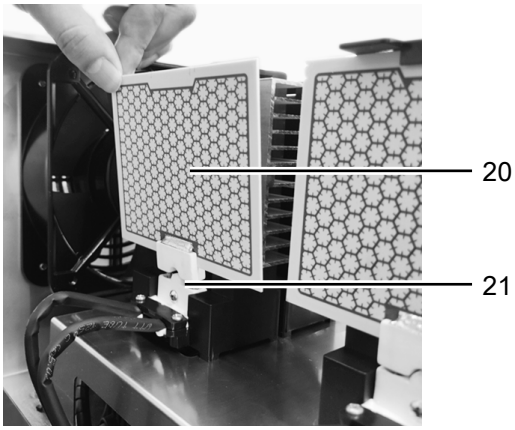
Replacing the ozone plate

Replace the ozone plate in the following cases:

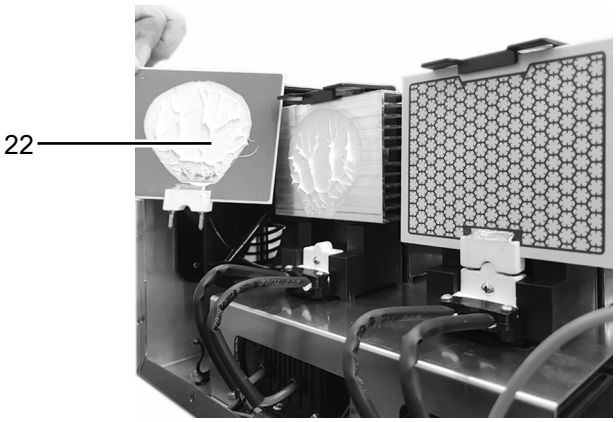
- After approx. 6000 operating hours, the message "REPLACE OZONE PLATE" appears on the display.
- They have the impression that the effectiveness of the treatment is decreasing.
- The ozone plate (20) is defective.

Please proceed as follows to replace the ozone plate (20):

1. Loosen the screws at the housing (7) of the device and remove the housing.
2. Pull out the ozone plate (20) from the ozone generator (21) and dispose of the ozone plate properly.



3. Remove the heat-conducting paste that is applied on the refrigeration unit (22).



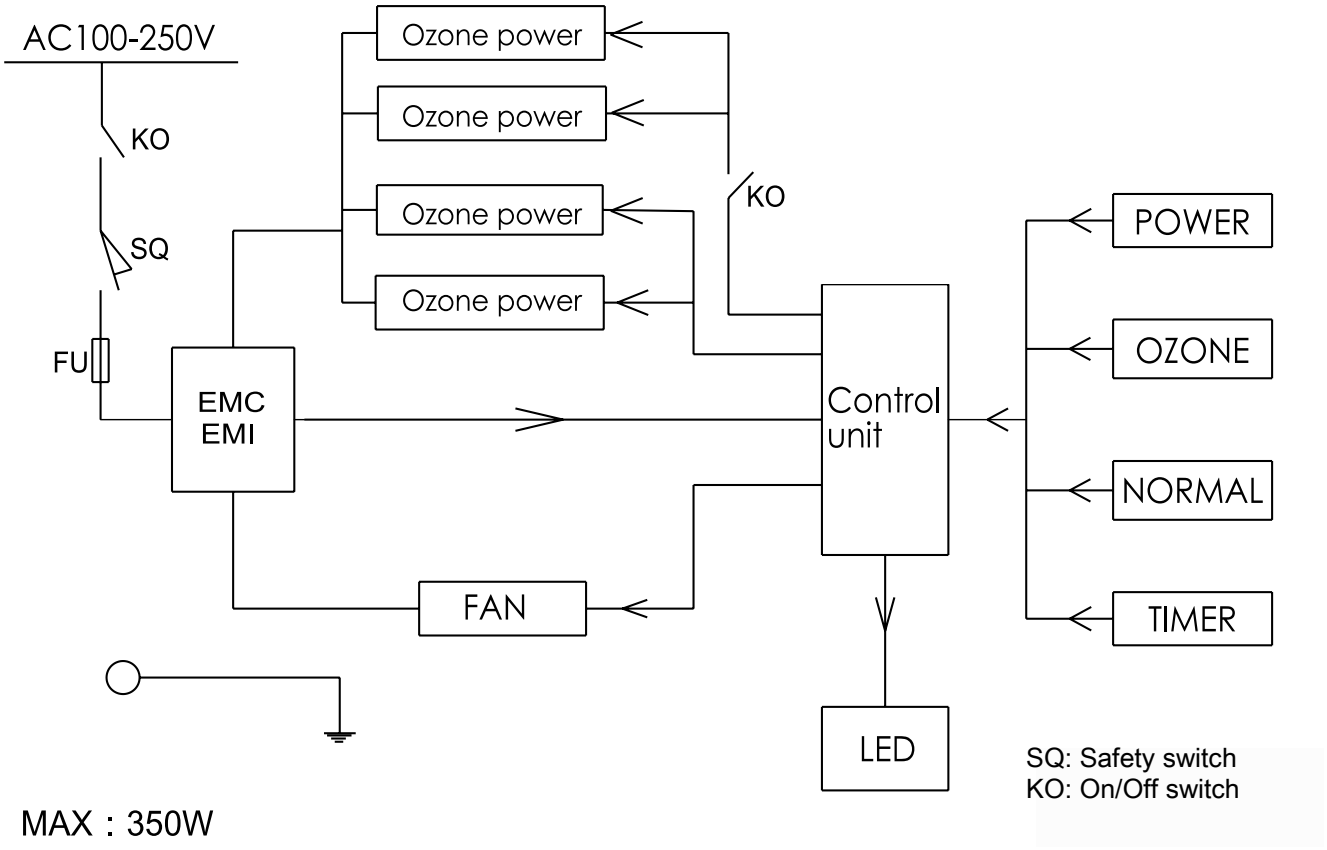
4. Apply new heat-conducting paste on the refrigeration unit (22).
5. Insert the new ozone plate (20) and slightly press it onto the cooling plate (22).
6. Screw the housing (7) back on the ozone generator and firmly retighten the screws.
7. When the message "REPLACE OZONE PLATE" appears on the display, press the *Ozone* button (16) for 5 seconds.
   ⇨ The message disappears.

Technical annex

Technical data

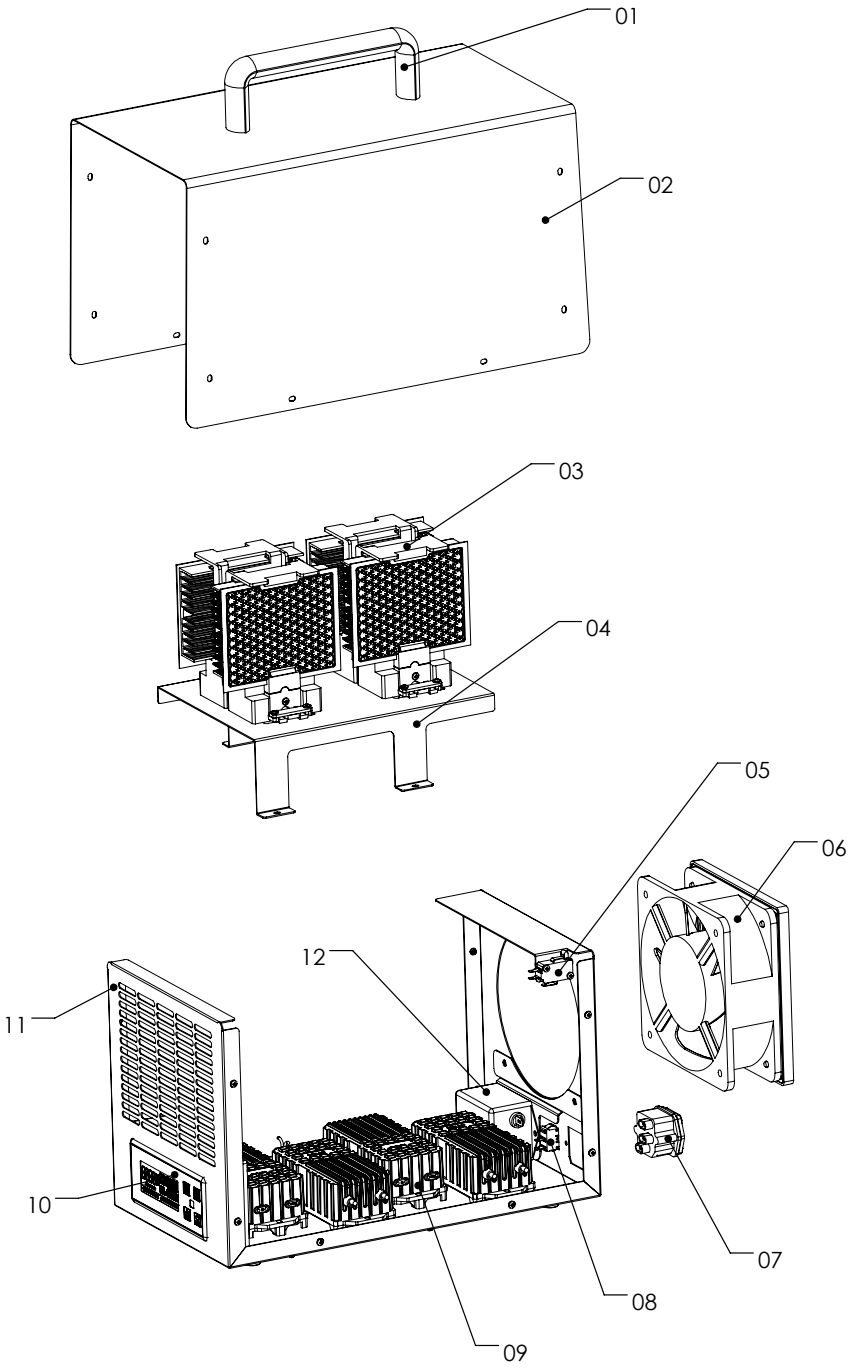
Parameter	Value
Model	**Airozon® 28 ECO**
Electric connection	110 - 120 V, 6 A, 50 / 60 Hz or 220 - 240 V, 3 A, 50 / 60 Hz
Frequency	50 Hz
Max. nominal current	1.5 A
Max. power consumption	350 W
Protection class	I / ⏚
Fuse	F3AL 250 V
Ozone output	7000 mg/h, 14000 mg/h, 21000 mg/h, 28000 mg/h
Air flow rate	288 m^3/h
Sound pressure level (at a distance of 3 m)	55 dB(A)
Dimensions (depth x width x height)	380 x 202 x 282 mm
Weight	6.3 kg
Minimum distance to walls and other objects: top (A): rear (B): sides (C): front (D):	 50 cm 50 cm 50 cm 50 cm

Circuit diagram



Overview and list of spare parts

Note: The position numbers of the spare parts differ from those describing the positions of the components mentioned in these instructions.



No.	Spare part	Quantity	No.	Spare part	Quantity
1	Handle	1	7	Power socket	1
2	Cover	1	8	Switch	1
3	Ozone module	4	9	Ozone power supply	4
4	Stents	1	10	LCD control module	1
5	Safety switch	1	11	Base	1
6	Fan	1	12	EMI filter module	1

Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.



The icon with the crossed-out wheeled bin indicates that this device and any associated components must not be disposed of with household waste at the end of their life, in accordance with the Waste Electrical and Electronic Equipment Directive (2012/19/EU) and national laws.

You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website https://hub.trotec.com/?id=45090. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

EU Declaration of Conformity

ORIGINAL EU Declaration of Conformity for a machine in accordance with 2006/42/EC, Annex II, Part 1, Section A		
1.	Machine:	Ozone generator
2.	Manufacturer:	Trotec GmbH Grebbener Str. 7 52525 Heinsberg Germany online@trotec.com www.trotec.com
3.	./.	
4.	This declaration of conformity is issued under the sole responsibility of the manufacturer.	
5.	Object of the declaration:	Airozon® 28 ECO Year of manufacture: as of 2025
6.	The object of the declaration described in point 5 is in conformity with the following Union harmonisation legislation:	• 2006/42/EC • 2011/65/EU • 2014/30/EU
7.	Applied harmonised standards: • EN 60335-1:2012 (Official Journal L 115 – 13/04/2022) • EN 60335-1:2012/AC:2014 (Official Journal L 115 – 13/04/2022) • EN 60335-1:2012/A11:2014 (Official Journal L 115 – 13/04/2022) • EN 60335-1:2012/A13:2017 (Official Journal L 115 – 13/04/2022) • EN 60335-1:2012/A15:2021 (Official Journal L 115 – 13/04/2022) • EN 60335-2-65:2003 (Official Journal C 99 – 05/04/2013) • EN 60335-2-65:2003/A11:2012 (Official Journal C 99 – 05/04/2013) (except for section 32.101)	
	Common specifications applied: ./.	
	Other applied standards and specifications: • EN IEC 55014-1:2021; EN IEC 61000-3-2:2019/A1:2021 • EN IEC 61000-3-2:2019/A1:2021 • EN 61000-3-3:2013/A1:2019; EN 61000-3-3:2013/A2:2021 • EN 60335-1:2012/A1:2019 EN 60335-1:2012/A14:2019 • EN 60335-1:2012/A2:2019 • EN 60335-2-65:2003/A1:2008 • EN 60335-2-65:2003/A12:2022 • EN 60335-2-65:2003/A2:2022 • EN 62233:2008	
8.	./.	
9.	The machine is subject to the conformity assessment procedure on the basis of an internal production control.	
10.	Other information:	Authorised representative compiling the technical documentation: Trotec GmbH Grebbener Str. 7 52525 Heinsberg Germany

Heinsberg, 24 June 2025



Joachim Ludwig (Managing Director)

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