

DATASHEET

rev. 06 - 25/11/2022



Ozone generator 15 g/h

HCC300006



DESCRIPTION

The UltraOzone Sanitization Machine ozone generator provides a thorough sanitisation and disinfection of an environment and should be used by qualified personnel.

Ozone sanitisation inactivates viruses, eliminates pathogens such as germs, bacteria, moulds, pollens, fungi, spores, air and water yeasts and removes unpleasant organic and inorganic odours.

OPERATION PRINCIPLE

The ambient air is pushed through two distant electrodes just a few tenths of mm distant from one another, through high voltage discharges some oxygen O_2 molecules are separated and remain at the free state (O) and then are recombined with other oxygen molecules so that ozone ($O+O_2=O_3$) is generated.

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This process generates heat that the machine fan will remove.

TECHNICAL SPECIFICATIONS:

- Ozone production 15 g/h
- Sanitisable volume 300-450 m³
- Sanitisable room area 100-150 m² (at a height of 3 m)
- Power supply 220 V - 50 Hz
- Power 120 W
- Operating time setting 0-90 min
- Weight 3.0 kg
- Dimensions W 286 x H 147 x D 237 mm

TECHNICAL DATA

MODEL ppm	DATA
Ozone production [g/h]	15
Sanitisable volume [m3]	300-450
Local area suitable for sanitising [m²] (with a height of 3 m)	100-150
Power [W]	120
Power supply	AC 220V50 Hz
Ozone concentration [mg/l]	15-20
Working hours	6000
Cooling system	Air cooling
Room temperature	<=45°
Environment relative humidity	RH<=80%
Timer range (min)	0-90
Protection rating [IP]	20
Dimensions (LxDxH) [mm]	286x147x237
Weight [kg]	3.0

MATERIALS - COMPATIBILITY WITH OZONE

The oxidising power, which is the key factor in ozone gas, can damage some materials.

Below is the table with the compatibility indication, please consider that prolonged contact causes imperceptible effects.

MATERIAL	COMPATIBILITY
ABS	Good
Aluminium	Good/Fair
Bronze	Good
CPVC	Excellent
EPDM	Excellent
Natural rubber	No
Hypalon	Excellent
Stainless steel 304	Good
Stainless steel 316	Excellent
Kel-f	Excellent
Neoprene	Good/Fair
Nylon	No
Brass	No
Polycarbonate	Excellent
Polypropylene	Moderate
Plexiglass	Excellent
PVC	Moderate
Copper	Good
Silicone	Excellent
Teflon	Excellent
Glass	Excellent
Viton	Excellent

OZONE EXPOSURE MAXIMUM LIMITS

8 hours day / 5 days per week (continuous exposure limit) 0.1 ppm.

For short exposures (15 min.) the maximum concentration can be as high as 0.3 ppm.

INDICATIONS OF THE DANGERS



WARNINGS

Ozone is not a polluting gas but is dangerous to human health.

Keep the generator out of reach of children or persons who could harm themselves or others through improper use of the machine.

If during disinfection animals are present, even for a small period inside the room, contact the veterinarian immediately.

If during disinfection people accidentally enter the room and show signs of malaise, urgently contact medical personnel.

Reactions based on the breathed ozone concentration AFTER TWO MINUTES

ppm concentration	Symptom	Effect
Up to 0.02	No perception of the gas	None
from 0.02 to 0.3	Nose and throat irritation	None
from 0.3 to 0.5	Irritation of the nose, throat, eyes	Eye problems, wash eyes with cold water and seek the advice of medical personnel
from 0.5 to 1	Irritation of the nose, throat, eyes	Trachea irritation and dry cough, seek medical advice
from 1 to 2	Headaches, chest pain	Strong trachea irritation, thirst, seek medical advice
from 2 to 10	Sense of suffocation	Possible pulmonary oedema, urgently call medical assistance
Over 20	Nausea, vomiting and loss of consciousness	Prolonged exposure may result in coma. Urgently call medical assistance
from 10 to 20	Nausea, vomiting and loss of consciousness	Urgently call medical assistance

ITEMS

CODE	DESCRIPTION
HCC300006	"ULTRAOZONE" OZONE GENERATOR 15 gr/h - WHITE COLOUR