









# Diamond Air

## User manual

### Ozone generator



	Article Size-nr plates	Capacity [m <sup>3</sup> /h]	Capacity [cu feet]	Weight [kg]	Box size [cm]	EAN nr
	AZ-150-1	600	20.000	6,0	35 x 26 x 34	8720299114913
	AZ-200-2	1.200	40.000	6,5	35 x 26 x 34	8720299114920
	AZ-250-3	1.800	60.000	7,0	35 x 38 x 46	8720299114937
	AZ-315-5	3.000	100.000	7,5	35 x 38 x 46	8720299114944
	AZ-355-8	4.800	160.000	8,0	35 x 46 x 54	8720299114951
	AZ-400-10	6.000	200.000	8,5	35 x 46 x 54	8720299114968

## Specification / technical data

Connection voltage	230V / 50Hz 115V / 60Hz
Max power	100W
Ambient temperature	-20°C...+50°C
Max relative humidity	80%
Fuse	0,5 A (230V slow)



## Safety instructions

The ozone generator is exclusively for industrial usage. When using the ozone generator, safety precautions should be observed. Therefore read the instructions very carefully.

## Warning hazardous voltages

The ozone generator makes use of high voltages. Do **NOT** touch conducting (metal) parts when the ozone generator is connected to the mains (230V) Before connecting the ozone generator to the mains, the it should be installed in a ventilation system.

## Short circuit protection

The ozone generator is short circuit protected with a fuse. If the fuse blows, the ozone generator should be turned off, before replacing the fuse. The fuse is placed near the mains inlet. The fuse can be replaced by opening the fuse cap.

## Ozone safety

Ozone can be recognised in nature as the fresh air after a thunderstorm, which is nature's way of cleaning the air. The effect of ozone on human health depends on the concentration and duration of exposure. Because of the possible effects it is important to always have a correct way of working with ozone.

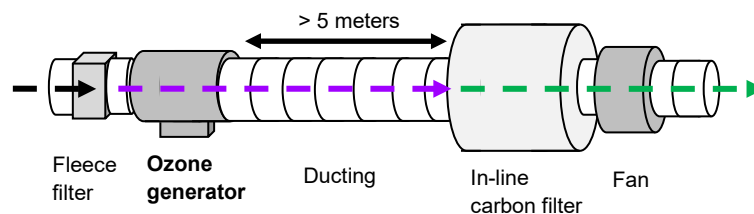
## Installation instruction

Ozone generator can only be used integrated in a ventilation system.

**At least 5 meters of ducting should be used after the air flow passed the ozone generator. This is to let the ozone have sufficient time to react with the polluted air.**

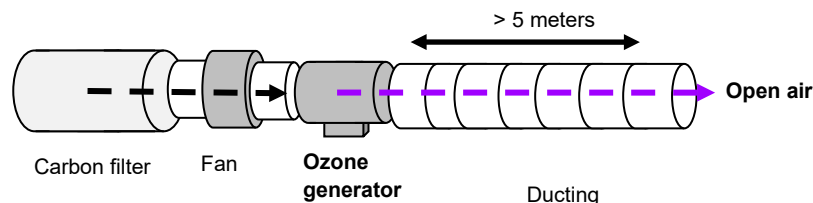
### 1. Air flow outputs in (semi) closed areas.

The ozone can be blocked by using an in-line carbon filter at the output of the ventilation system. Ozone will be blocked by the carbon and will break down to oxygen again.



### 2. Air flow outputs in open areas.

The ozone concentration in open air declines rapidly. Ozone concentration in open air will always remain within acceptable levels. Advice is to place the ozone generator close after the fan, so maximum length of ducting issued for ozone reaction time with the polluted air.



## Maintenance and repairs

Servicing and installation of the ozone generator may only be done according local regulations by certified personnel AFTER the ozone generator is completely separated from the mains. The user is responsible for the (dis)assembly and repairs of the ozone generator. The ozone generator is almost maintenance free. After a long period of intensively usage, the ozone reactor may get polluted. The reactor can be disassembled and replaced.

**The mains plug must be disconnected from the mains, before the ozone generator may be disassembled.**