

# Desinfinator



Patent pending

## AERO 1100 OD

Aero 1100 OD for removal of H<sub>2</sub>S (the killer gas), NH<sub>3</sub>, CH<sub>4</sub> and odours

The Aero 1100 OD is designed for removal of odours and harmful gasses at the source or within the exhaust air. As a result of reducing the H<sub>2</sub>S gas at a location, corrosion is also reduced significantly. Using the system at indoor locations results in a healthier environment for the workers. When the odour / gas emission is reduced at the source, the result is the exhaust air is also much cleaner.

The Aero 1100 OD can be installed directly into the exhaust air flow as well. This is usually done to prevent harmful gasses / odours entering the environment.

The units can also be installed and combined together with other odour removal technologies such as active carbon filters, for example. This combined solution offers additional benefits such as less carbon needed and longer maintenancefree periods (the reactive gas created by the Aero 1100 OD has a regenerative effect on the carbon).

Typical locations / references:  
mould locations  
sewage water plants  
garbage rooms  
factories etc.

### How you will benefit:

- No harmful waste created
- Very low operating costs:
  - Minimal annual maintenance requirements
  - Low energy consumption
- Easy to install, regardless of whether installation is in existing or new buildings
- Continuous 24/7 disinfection of the location



### Technical specifications:

AERO 1100 OD	
Dimensions	275x400x1065 mm
Operation Temperature	+5 - +50 °C
Weight	30 kg
Voltage	230 V / 50 Hz
Power	290 W
Max air flow	328 m <sup>3</sup> / h

CE-marked  
Over heating fuse  
Lightweight sheet metal structure

### Installation:

To work most efficiently, the Aero1100 module should be installed close to the source of the problem – we suggest, either on the wall or ceiling.

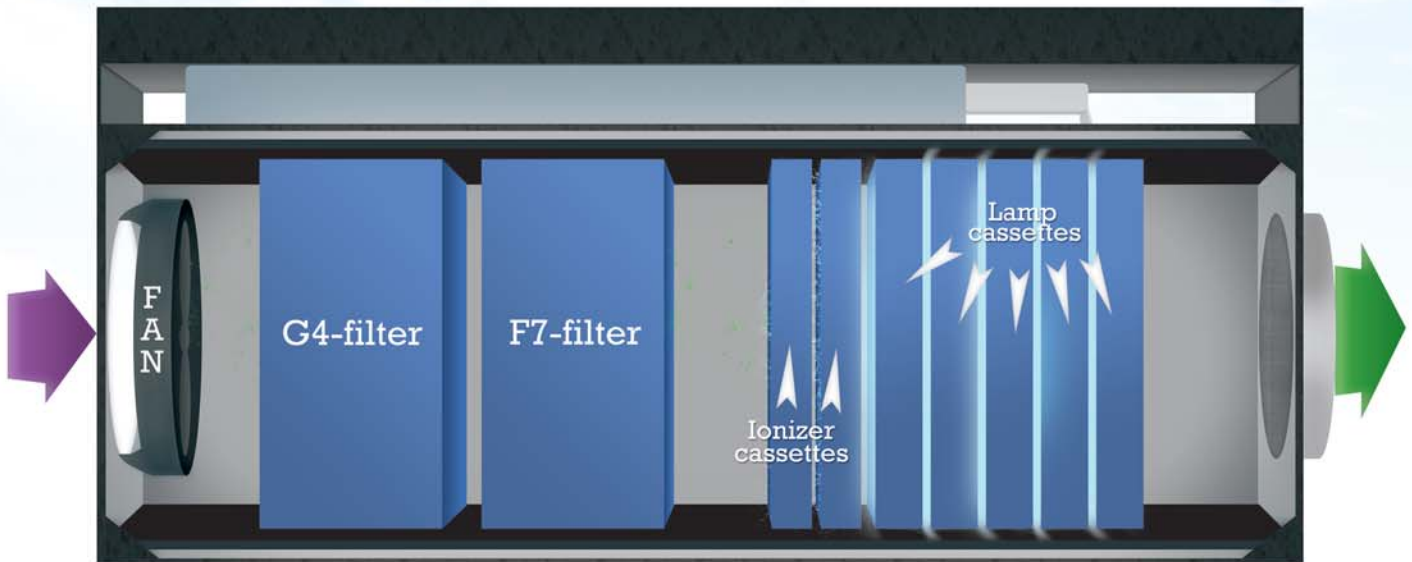


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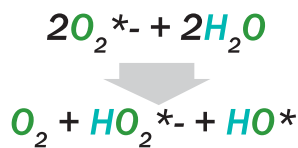


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## How it works

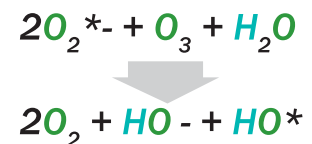


The air passing through the UV-lights is charged with a massive amount of negative ions. Additional ions are created by ionizer cassettes. Together with a small concentration of ozone they produce extremely reactive hydroxyl radicals. In the beginning, the oxygen molecule gets a negative charge in a photochemical reaction receiving a free electron forming a superoxide anion.



The formed superoxide anion reacts further with humidity producing oxygen, perhydroxyl radicals and hydroxyl radicals. Hydroxyl radicals oxidize organic molecules.

Additionally, due to the UV-light reaction, hydroxyl anions (OH<sup>-</sup>) and hydroxyl radicals are created which are both very antiseptic.



Air from room or from outside the building

Desinfinator Aero 1100 series

To problem source with ducting

Reaction with harmful odours and gases