



500 C



## AirMaid® C Operating Instructions



AIRMAID® OZONE CLEANING SYSTEM

INNOVATIVE AIR TREATMENT



## WARNINGS AND SAFETY INFORMATION

### General

The device should not be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless supervised or given instruction. Children should be supervised to ensure that they do not play with the appliance.

1. This manual contains important information about instructions and safety for AirMaid® ozone generators (called the generator). Read this manual carefully before installing, operating or performing service and maintenance on the generator.
2. The generator is only for ozone treatment of air according to the instructions in this manual.
3. The generator uses high voltage to create an electric discharge that produces ozone (O<sub>3</sub>). Ozone considerably reduces odours, mould and bacteria. Interzon AB disclaims any liability if the product is not used according to the manufacturer's instructions in this manual.
4. The generator should never be cleaned with chemical cleaners. Never spray water or any other liquid on or in the generator. Cleaning of the ozone cell (CGC) should be performed only as directed in this manual.

### Troubleshooting and service information

1. Users can troubleshoot the generator themselves by following the steps and procedures described in the system testing section in this manual. If the user needs to service the generator, the user has to contact the nearest authorised service partner or Interzon's technical support team.
2. Any type of repair on the generator must be performed by an Interzon AB authorised service partner.



There must be no current in the generator before any service or maintenance is carried out. Ensure that all parts are installed before operating the generator again.



Use a ladder or a stable work platform for installation or service operations on the generator if it is to be installed/serviced at a height.



The generator produces ozone. If the generator is used or misused by people who have not read the manual, there is a risk of injury such as eye and lung irritation. Always follow local regulations and recommendations by government agencies in charge of regulations or working environment.



This manual describes a typical installation of an AirMaid® 500 C ozone generator. The installation can vary depending on local rules and regulations for building materials, ventilation systems or building/room design. Deviations may occur, but consult the manufacturer first before such an installation is performed.

## PRODUCT WARRANTY

### LIMITED WARRANTY FOR INTERZON'S EQUIPMENT

This guarantee is subject to the following conditions.

A new product is guaranteed to be free from damage and/or workmanship fault for a period of 3 years from the original purchase date.

The warranty of a new product covers the repair or replacement of the damaged part and shipping the product back to the customer.

A new spare part is guaranteed to be free from damage and/or workmanship fault for a period of ninety (90) days from the date of the original installation.

The spare part guarantee only covers repair or replacement of the damaged part and does not include the labour for removing or installing the part, travel costs or other expenses in connection with the repair or replacement of the part.

The installation of the product must be carried out according to the installation instructions described in this manual. Circumstances that could render the warranty void are:

1. If a foreign object such as water or detergent is sprayed onto or into the generator;
2. If the generator is overheated because the inlet or outlet is blocked;
3. If the regular generator maintenance has not been conducted as described in this manual;
4. If the generator is not installed according to the instructions in this manual.

A claim must be submitted to the dealer or manufacturer. No compensation will be granted for repairs performed by anyone else without the prior written consent of Interzon. If damage occurs during shipping, notify the sender immediately to file a complaint.

The foregoing limited warranty does not apply to damage caused by accidents, product modifications, misuse or in case the serial number has been removed or defaced.

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## 1. INSTALLATION



The generator must be installed in vertical position as shown above. Ensure that the generator is not exposed to water or mechanical stress. A typical installation is shown in the image below.

Prepare a rectangular hole on the side of compressor. The width should be 185mm and the height should be 295mm. Drill and thread 10xM6 holes according to the dimensioned drawing on the last page of this manual.

Fix a seal (ozone-resistant) around the hole and then install the generator. After that, place the supplied frame on the generator flange and fix the generator with 10xM6 bolts from the outside.

By default, the generator is delivered with a 5m cable without plug. A qualified electrician should connect the cable to a 2-pole safety switch.

The incoming air to the generator should be as pure as possible and the temperature should not exceed 40 °C.

## 2. STARTUP



The ozone generator is equipped with an asymmetrical timer for controlling ozone operation. See the picture.

To change the settings, you should first remove the front cover with four screws, and then turn off the main switch on the front. The ozone production period "PÅ" (ON) can be adjusted using TON. The ozone production period "AV" (OFF) can be adjusted using TOFF. By default, the timer is set as illustrated below.

### Example

The settings as shown above are as follows:

TON: 1-10 s      TOFF: 0-60s  
2                      5

This way, ozone is generated for 2s, followed by a rest period of 30s. By combining white wheel (time period) and blue wheel (1-10), periods may be extended from 0 0.1s to 100h.

### 3. SERVICE AND MAINTENANCE

Under normal conditions the air filter should be changed at least one time per year. If the incoming air is very dirty, the filter should be replaced more often.



1. Turn off the safety switch and remove the screws, as shown on the left. Then turn off the main switch.

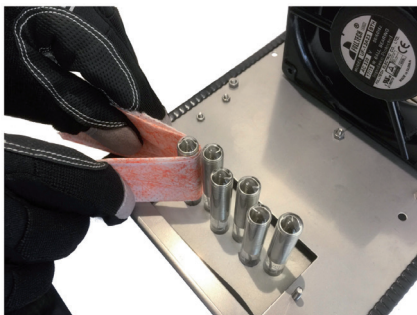
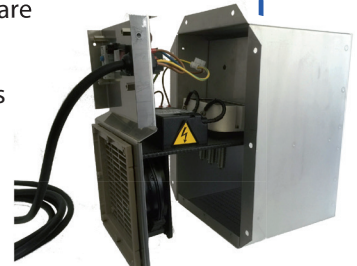


2. Remove the front of the filter with a screwdriver. If the filter is dirty, it should be replaced.



3. Use this occasion to also inspect the fan and verify whether it works properly (this task requires current), and whether the ozone cell glass rods are clean and intact.

Remove the screws as shown on the left in order to pull out the interior.

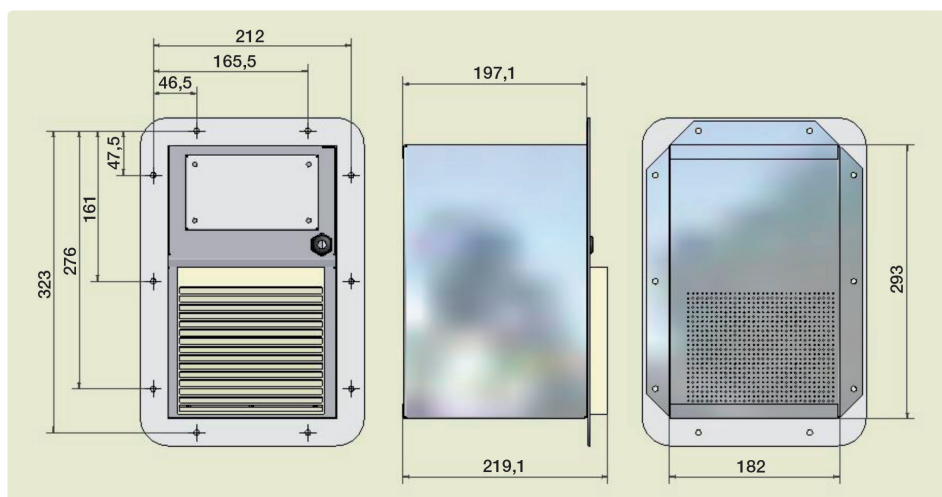


4. If the glass rods are very soiled, they should be cleaned with a soft cloth with alcohol.

**NB! Never use any sharp tools or abrasives to clean the glass.**

If the generator does not work, you should contact the manufacturer or distributor.

## 4. TECHNICAL SPECIFICATIONS



Model	Ozone capacity	Dimensions	Electrical data	Fan capacity	Materials
AirMaid 500 C	0-500 mg/h	WxLxD: 182x293x220mm Weight: 5,5 kg	Voltage: 230V / 50-60 Hz Power: 55W	160m <sup>3</sup> /h (ideal)	AISI 316

The ozone unit is supplied with overheating protection, which protects the generator from overheating. The unit is also equipped with a glass 2A slow blow fuse.

### Ozone reactivity

Ozone is a powerful oxidising agent and high concentrations of ozone are unhealthy. Local regulations concerning the use of ozone should be followed. Interzon recommends that all persons who use the ozone generator be aware of the risks associated with higher ozone concentrations. See below for more information.

Complies with the  
EMC and Low Voltage  
directives.



For further information please  
contact Interzon AB.

### Facts about ozone

Ozone is a colourless gas with a pungent odour that can be detected by humans at a concentration of as little as 0.02 ppm (0.4mg/m<sup>3</sup>). The smell of ozone reminds slightly of chlorine in a swimming pool.

Local safety regulations must be followed when using ozone. In Sweden, the Swedish Work Environment Authority issues the following exposure limits for ozone:

- OELV (occupational exposure limit value) 0.1 ppm (for exposure during a working day, i.e. 8 hours)
- CV (ceiling value) 0.3 ppm (valid for a reference period of 15 minutes)

In case of acute exposure, ozone can lead to damage of the following:

- The skin: Irritation or burning
- The eyes: Severe irritation, can cause burns and visual impairment
- The lungs: Irritating effect on the respiratory tract and breathing problems

As a rule of thumb, you should always take precautions if ozone in one way or another can be detected in the indoor environment.

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