



500C



Part of Absolent
Air Care Group

Operation Manual AirMaid® C



AIRMAID® OZONE CLEANING SYSTEM

INNOVATIVE AIR TREATMENT

WARNINGS AND SAFETY NOTICES

General Information

The device may not be used by children or by persons with diminished physical, sensory or mental capacity or lack of experience and knowledge unless supervised or having received instruction. Supervise children to ensure that they do not play with the device.

1. This manual contains important information about instructions and safety concerning AirMaid® ozone generator (hereinafter referred to as the generator). Read this manual carefully before installation, commissioning or performing service and maintenance on the generator.
2. The generator is intended only for ozone treatment of air in accordance with the instructions in this manual.
3. The generator uses high voltage to create an electric discharge which generates ozone (O₃). Ozone significantly reduces odours, mould and bacteria. Absolent CKV AB disclaims any liability if the product is not used according to the manufacturer's instructions in this manual.
4. Never clean the generator with chemical cleaning agents. Water or liquid shall not be sprayed onto or inside the generator. The cleaning of the ozone cell (CGC) shall be done while following the instructions in this manual.

Troubleshooting and Service Information

1. The user can troubleshoot the generator by following the steps and procedures described in the system test section in this manual. If the user needs to have the generator serviced, the user shall contact the closest authorised service partner or Absolent CKV's technical support.
2. All repairs on the generator must be performed by a service partner authorised by Absolent CKV AB.



The power supply to the generator must be cut off before any service or maintenance. Make sure that all parts have been installed before you turn on the generator again.



Use a ladder or a stable work platform when installing or servicing the generator if the installation or service must be done at a height.



The generator produces ozone. If the generator is used by persons who have not read this manual, there is a risk of injury such as eye or lung irritation. Always follow local regulations and the recommendations of government organisations that inspect the regulations or the work 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 Absolent CKV'S EQUIPMENT

This warranty is subject to the following terms:

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

The warranty of a new product covers repair or replacement of the damaged part as well as the delivery of the product to the customer.

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

The spare part warranty covers only repair or exchange of damaged part and does not extend over labour costs for removing or installing the part, trips or any other costs 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 can make the warranty null and void:

1. If a foreign object such as water or cleaning agent has been sprayed on or into the generator;
2. Generator overheating as a result of a blocked inlet or outlet;
3. If the regular generator maintenance has not been performed as described in this manual;
4. If the generator has not been installed according to the instructions in this manual.

A complaint must be filed with the reseller or the manufacturer. No compensation will be granted for repairs carried out by a third party without Absolent CKV's consent. In case of damage during transport, please inform the sender immediately in order to file a complaint.

The limited warranty above does not cover damages caused by accidents, product modifications or incorrect use and does not apply if the serial number has been removed or tampered with.

CONTENTS

| | | | |
|-----------------------|---|-----------------------------------|---|
| 1. Installation | 5 | 3. Service and Maintenance | 6 |
| 2. Startup | 5 | 4. Technical Specifications | 7 |

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 "ON" (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

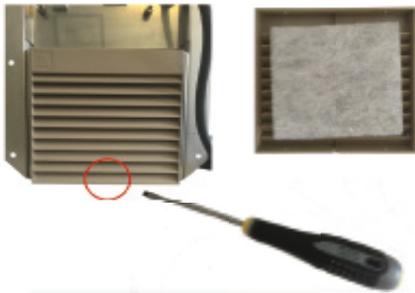
This way, ozone is generated for 2s, followed by a rest period of 30s. By combining white wheel (time period) and blue wheel (1-10), periods may be extended from 0.01s to 100h.

5. 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.



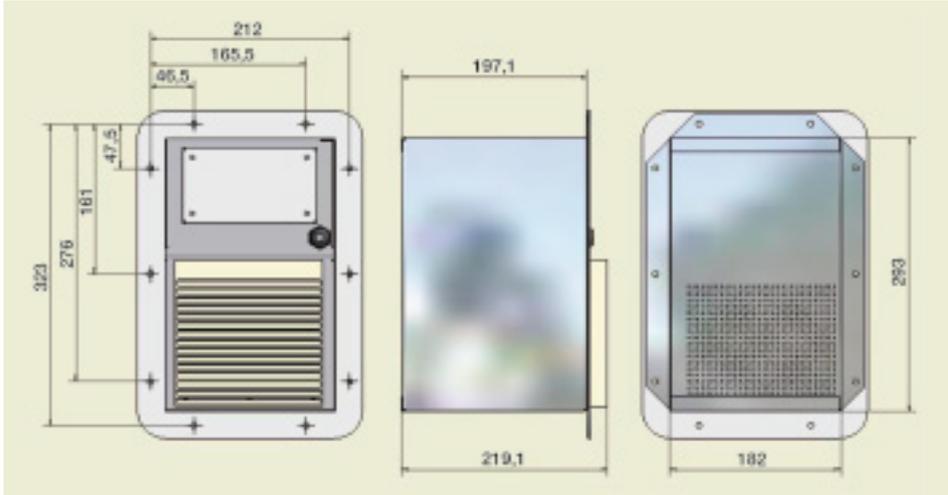
4. If the glass rods are very soiled, they should be cleaned with a soft cloth with alcohol.



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.

6. TECHNICAL SPECIFICATIONS



| AirMaid | Ozone Capacity | Power | Voltage | Fan Capacity | Dimensions | Weight |
|---------|----------------|-------|---------------|------------------------------|-------------------|--------|
| 500C | 0-500 mg/h | 55W | 230V/50-60 Hz | 160m ³ /h (ideal) | 182 x 293x 220 mm | 5,5 kg |

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. Absolent CKV recommends that all persons who use the ozone generator be aware of the risks associated with higher ozone concentrations. See below for more information.

EC DECLARATION OF CONFORMITY

This product has been designed, constructed and distributed in compliance with the safety requirements of EC Directives:

- EMC directive 2014/30/EU
- Low voltage directive 2014/35/EU



This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recycling

Facts about Ozone

Ozone is a colorless gas with a pungent smell that can often be detected by any person at a concentration of 0,02ppm (0,4mg/m³). The smell of ozone is similar to chlorine like in a swimming pool.

Local protection legislations must be followed when using ozone. In Sweden, for example, the Swedish Work Environment Authority issues the following hygienic limits for ozone:

- 0,1ppm (during a working day, 8 hours)
- 0,3ppm (during 15 minutes)

At acute exposure ozone can cause following injuries:

- On skin: Irritation and burning feeling
- In eyes: Hard irritation, burn injuries and reduced vision
- In lungs: Irritated effect on respiratory organs and breathing problems

Always take corrective action and safety precautions if ozone is detected in an indoor environment.

Reproduction, modification or translation without a prior written consent is forbidden with the exception of what is permitted by the Act on Copyright.

Copyright

© 2023 Copyright Absolent CKV AB

Version 1, 01/2023

Distributor:

Absolent AIR CARE
GROUP

Commercial Kitchen Ventilation Division

Absolent CKV AB
Propellervägen 4A
SE-183 62 Täby, Stockholm
Sweden

Email: info@absolentckv.com
Internet: www.airmaid.com