

# Aircode™ IDAC-500

*Upgrade the ventilation system!*



## Aircode™ IDAC-535 / IDAC-550

Aircode™ IDAC-500 is an ionization unit for installation in ventilation ducts. The unit creates a clean indoor climate both in industrial processes and in commercial buildings and public premises. The technology used by the unit has proven to be effective in breaking down odors, bacteria, airborne microbes, gases, mold, dust and fungal spores.

The unit has up to 5 PCS of ionization tubes that have an operating length of approx. 9000h. The unit is also equipped with an alarm output. Service agreements can be signed, which means that we check the functionality of the equipment once or twice a year, clean the equipment and change tubes if necessary.

### Technical data

**Location:**  
**Voltage:**  
**Number of tubes:**  
**Size of tube:**  
**Energy consumption:**  
**Weight:**  
**Size:**  
**Capacity:**  
**Applications:**

### ID AC-535

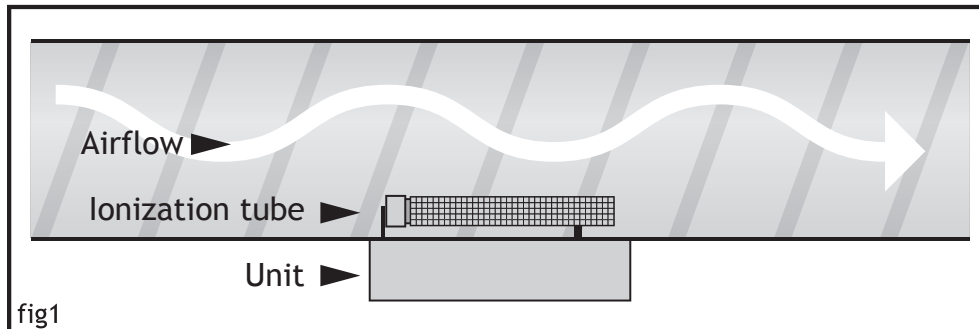
In the ventilation system  
120V, 60Hz  
1-5  
35  
35 watt  
7,2 kg  
h: 215mm, w: 306mm, l: 645mm  
Up to 7,100 m<sup>3</sup>/hour  
Sewage works, hospitals, factories,  
offices, cleaning rooms, etc.

### ID AC-550

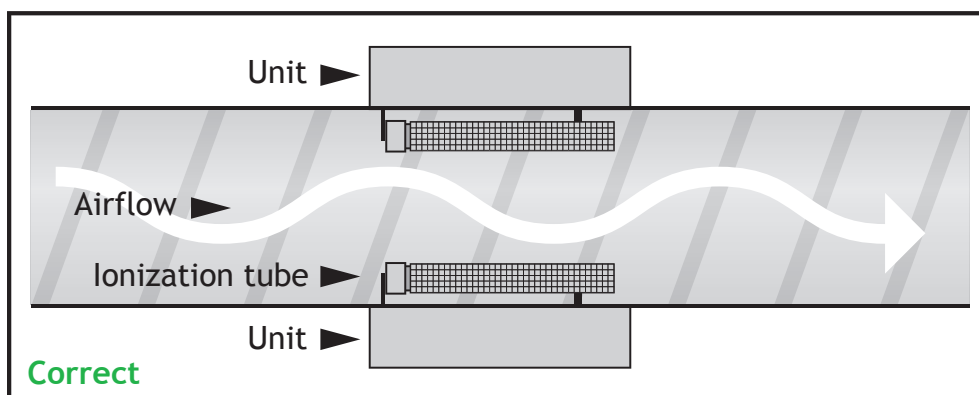
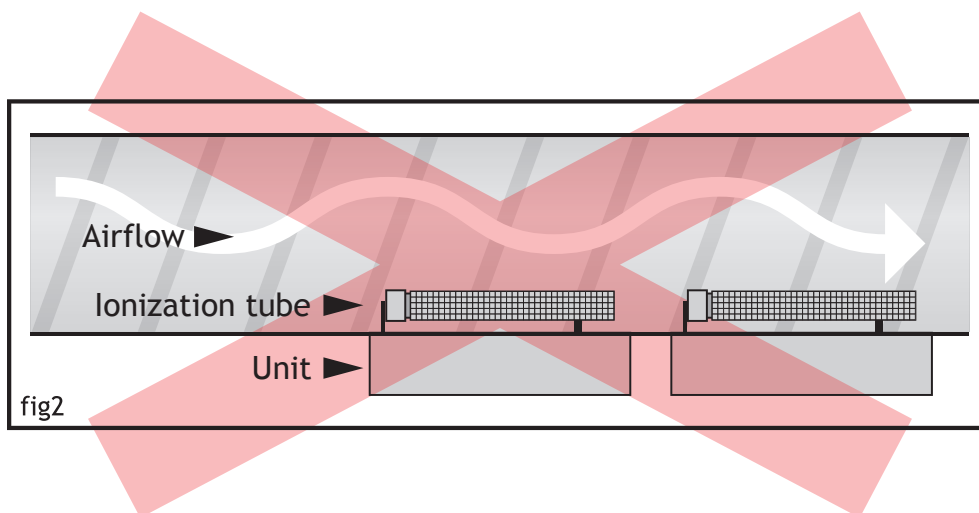
In the ventilation system  
120V, 60Hz  
1-5  
50  
35 watt  
7,2 kg  
h: 215mm, w: 306mm, l: 645mm  
Up to 10,200 m<sup>3</sup>/hour  
Sewage works, hospitals, factories,  
offices, cleaning rooms, etc.

## Installation in ventilation ducts

1. Carefully remove the packaging. Check that the unit is adjusted according to rated voltage.
2. Check that the ionization tubes are not damaged.
3. Screw the ionization tubes on.
4. Make a hole in the ventilation duct (see fig. 1) Fasten the unit with the screws.



5. The unit should be installed with the ionization tubes in line with the direction of the ventilation duct.
6. If two units are installed in the same ventilation duct, they must not be installed so that ionized air pass the second unit (see fig. 2).



7. The units should be installed for easy access, to make service and maintenance easy. They should also be installed so that one easily can access the unit's control panel.
8. The unit should be sealed with the fan, that generate the air flow in the system.

## Electrical installation

**Warning! The ionization tubes generate up to 3000 volt, when connected. Do NOT connect the unit before the installation is completed. Always disconnect the power by pulling the plug before any maintenance is done on the unit.**

Power connection: 120V, 60Hz  
Power-requirement: 35 watt

1. The unit shall only be used when connected to an air flow.
2. Built-in T315mA fuses protects the unit.
3. The unit is also equipped with an alarm system, that can be connected to existing alarm systems. The unit sets of the alarm if any of the ionization tubes brakes and in that way causes the unit to not ionize the air correctly.



## Operating instructions

1. Set the main switch to position one. The lamp is lit if the unit is connected.
2. The ionization control goes from 0 to 5. When in position 0 no ions are generated. Adjust the control from 1 to 5 in order to increase the ionization effect. The red indicator lamp is lit when the effect is more than 0.
3. The installation engineer sets the amount of ions that the unit should generate and the unit doesn't need adjustment after that.

## Maintenance and service

Service agreements can be made, which means that **Matseco AB** or one of our retailers, once or twice a year, test functionality, clean the unit and change tubes if necessary. When signing running 3-year contracts you get 20 % discount on maintenance costs, and full guarantee on the units.

### Control of the ionization tube:

1. Cut the power by pulling the plug.
2. Disassemble the unit.
3. Unscrew the ionization tubes.
4. Carefully pull the metal sock off, wipe the glass with a wet cloth. Then wipe the tubes dry with a dry cloth.
5. Carefully put the metal sock back on.
6. Screw the tubes back on.
7. Install the unit.
8. Insert the plug and check that the unit is working properly - a faint buzzing sound should be heard from the unit.

To maintain optimal functionality, the tube should be cleaned every sixth months and replaced once a year. To order tubes, please contact **Matseco AB**, by phone +46 31-7060980 or E-mail: info@aircode.se.

## Trouble shooting

If the effect goes down partly or completely, the ionization tubes should be checked. Tubes with more than 9000 operating hours should be replaced. If the unit stops working, begin by checking that the power is connected to the unit. Next step is to check the fuse. If this doesn't help the problem contact **Matseco AB** by phone +46 31-7060980.

