

User manual

DEHACO AXO

NEBULISER



Specifications-Safety-Use-Maintenance



ATTENTION!

All persons involved in the initialisation, operation, maintenance and repair of this product should receive a copy of these instructions!

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Translation of "Original user manual"

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09-2010

1. Introduction

Many thanks for the purchase of the DEHACO AXO nebuliser. Consequently you own a state of the art unit that you, if used correctly, can operate for years without breakdowns.

This manual is intended to familiarize you with the operation, to give instructions for safe use and guidelines for regular maintenance.

The following symbols and attention texts are used in this manual:



WARNING!!!

This text provides information relating to safety!! Non compliance can result directly in physical injury and/or damage to the machine!!



ATTENTION!

This text provides instructions, tips and information for optimal use!

The Dehaco AXO nebuliser has been delivered completely assembled and tested, ready to use. The delivery includes a) the machine, and b) this manual.

Check immediately at the delivery if the machine is complete and intact. If parts are missing or if there is transport damage, take directly contact with your supplier!!

This user manual, the name-plate and the stickers on the nebuliser contain important information and are as such part of the deliverie.

In case of damage or loss these should be replaced or obtained once again. All parts can be delivered subsequently by Dehaco BV.



ATTENTION!

Make sure you know the content of this manual before starting the activities, so that you can use the machine optimal.

2. Description

The Dehaco AXO has been developed for small-scale applications. The AXO is a compact unit used to produce a very fine water spray to control dust during small-scale indoor demolition and renovation projects. The AXO is a compact unit easy to move due to a two-wheeled undercarriage. (For smaller spaces we refer to the Dehaco Nano and Femto.)

The AXO is a compact unit easy to move due to a two-wheeled undercarriage. The AXO can function stationary, and in that case will be delivered without base, but with a mounting plate.

Working principle: by forcing a small amount of water at high speed through a swirl chamber nozzle, water droplets are 'pulled apart' to produce a fine mist of water that is distributed by the fan and blown into space. By an infinitely variable inlet and an infinitely variable fan the quantity and distribution of the mist can be adapted to any situation.



WARNING!!

***NEVER touch the nebuliser during operation: for the correct functioning the nebuliser cannot be shielded completely.
Touching may cause injury and damage to the nebuliser***



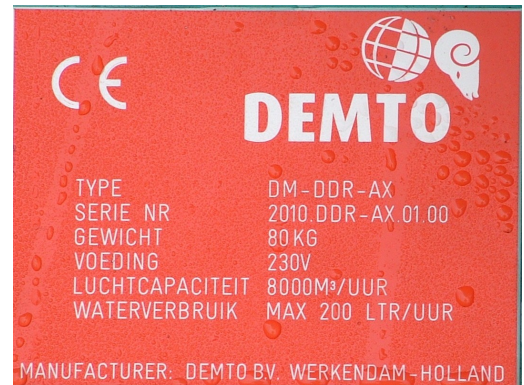
ATTENTION!

***Prevent contamination of the spray unit!!
Ensure beforehand that the water hose is clean (rinse before use) and use a quick release.***



3. Technical specifications

- Voltage 220 V-50 Hz
- Power 1600 W
- Isolation F / IP 55 (=spraywaterproof)
- Water connector Gardena quick release
- Water flow rate 0-200 ltr/hr (continually variable)
by pressure regulator
- Motorspeed (continually variable)
by inverter
- Spray range approx. 20 m
- Airflow 8000 m³/hr
- Weight approx. 80 kg



4. Safety



WARNING!

***Almost all accidents are a result of:
loss of concentration, inattention,
negligence and/or wrong estimations!***

Work calmly and concentrated!

You have been warned!



ATTENTION!!

***You must under all occurring circumstances
also follow up the safety instructions from
the user manual and the local instructions!!***



WARNING!!

There exists imminent danger of bodily injury and damage to the machine as a result of inexperienced, incompetent or careless use!!

Keep bystanders at a safe distance when working!!



WARNING!!

Always use a plug socket or extension lead that is properly earthed!!

General security rules:

- a) Ensure that your work area is clean and well lit. An untidy and/or poorly lit work area can result in accidents.
- b) Do not use the equipment in areas where there is a danger of explosion. Electrical equipment produces sparks which may ignite the dust or vapours.
- c) Keep children or other persons away from the area when the equipment is in use. You may lose control of the equipment if you are distracted.
- d) Do not use any equipment if you are tired or under the influence of drugs, alcohol or medication. A moment of inattention when using the equipment can result in serious injury and/or damage to the equipment or surroundings.
- e) Wear suitable clothing. Do not wear any loose clothing or jewellery. Keep hair, clothing and gloves out of the way of moving parts. Loose clothing, long hair and jewellery may interfere with moving parts.
- f) Ensure damaged parts are repaired before use. Many accidents are due to poor maintenance.
- g) In addition to the general rules given above, you should also be aware of local working conditions and regulations.

5. Storage

The following actions should be taken if nebuliser will not to be used for a long time:

- Clean and dry the unit
- Perform maintenance according to the schedule.
- Store the unit in a dry, frost-free area and cover it with a canvas.

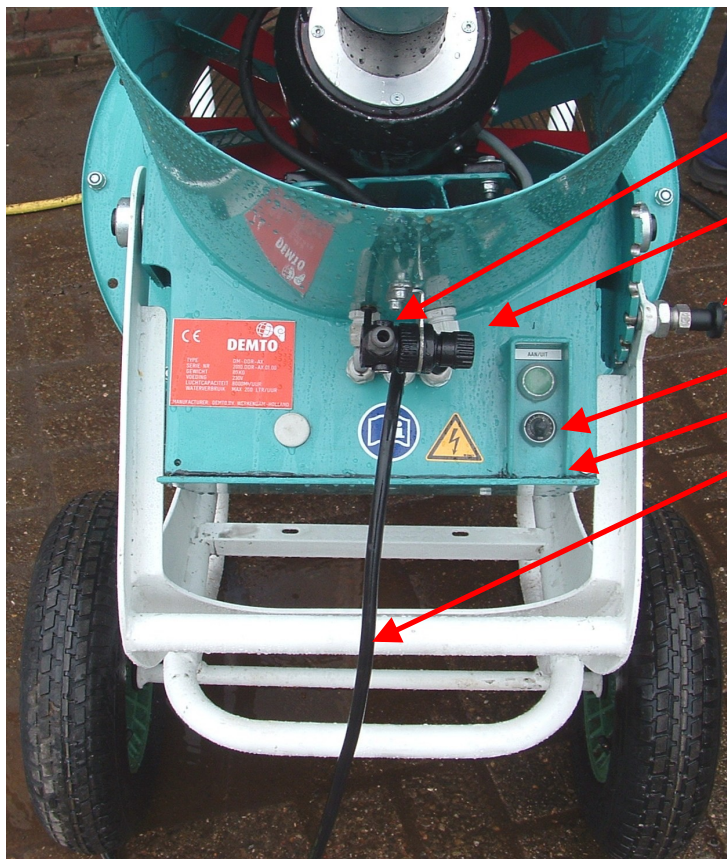


6. Switching the unit on



ATTENTION!!

Flush out the hose before connecting it, in order to prevent that any dust or grit in the hose will cause the spray unit to become dirty and/or obstructed.



a= waterhose connector
(Gardena quick connector)

b= flow regulator

c= Locking knob angle
adjustment

d= on/off switch

e= speed fan adjuster

f= power supply 220V

1. Place the Dehaco AXO close enough to the work area but not so close that it gets in your way or can be hit by falling objects.
2. Turn the water control (b) off.
3. Set the desired angle by pulling the switch (c) out and tilting the body.
4. Clean the hose connector, flush out the hose and connect it (a).
5. Place the plug in the plug socket (Make sure it is earthed!).
6. Switch on the spray unit (d) . Due to the inverter, the fan starts one second later!
7. Set the fan to the desired speed (e).
8. Open the water control (b) up to the required spray volume.
9. Adjust the position of the nebuliser if necessary, and do the same with the water flow and the fan speed in order to obtain the best results!

10. The Dehaco AXO nebuliser is ready for use.

A different order of switching on the unit is not harmful but not practical:

- If you open the water before starting up the nebuliser this starts to "leak".
- The fan may be on the "0" position when starting up the nebuliser, this causes no damage.
- The nebuliser may run "dry", this causes no damage.

7. Turning the unit off



1. Turn off the water supply.
2. *LET THE AXO TURN UNTIL NO MORE WATER WILL BE SPRAYED OUT!*
3. Switch off the nebuliser, and pull out the plug socket!!
4. Disconnect the water hose from the AXO.
5. Turn the nebuliser into a forward position (photo), so that any excess of water will be removed.

8. Preventing legionella

Legionella is a bacterium that can cause Legionnaire's Disease. Infection can occur by inhaling the bacteria in very small water droplets dispersed in the air (by showers, spray units or whirlpools). The bacteria can grow at temperatures of 20°-50°C in standing water.

Simple basic prevention measures are:

- 1) always use clean tap water.
- 2) flush out the hose before connecting it.
- 3) always ensure the Dehaco AXO tank is completely empty after use, certainly if it is to be stored at a temperature above 20°C.



WARNING!!!

***DEHACO draws your attention to the possibility of legionella infection.
You, the user, are responsible for the prevention of legionella!!!***

9. Maintenance



WARNING!!!

Always remove the plug from the socket before carrying out any inspection, maintenance or reparation work on the unit!!!

Daily

- Inspect the unit visually for damage.
Repair damage, however slight, immediately, or have it repaired.
This is for your safety and to maximise the life of the machine.
- Be sure to inspect also the electricity cable.
If damaged, remove it immediately and have it repaired.
Your safety comes first!
- Keep the unit clean!! This reduces the risk of accidents, and you work more comfortable!



ATTENTION!

Clean carefully!!! Never use a high pressure cleaning unit!!

10. Trouble shooting



WARNING!!!

Repairs must be carried out by appropriately qualified personnel only, using only original spare parts. This ensures the continued safety of the equipment!!!

- 1) The motor bearings are noisy/not running smoothly.
Replace the bearings. Mount using a liquid thread locker.
- 2) The ventilator will not start
Reset inverter: unplug, wait 1 minute. Restart.
No voltage: Turn on power / turn on regulator / replace fuse.
Voltage present: Carbon brush worn: replace
- 3) Thermal protection jumps out:
Clean / replace bearings / replace windings.
- 4) Nebuliser is not receiving water.
Check: the water supply / check the control valve.

11. End of economic lifetime



ATTENTION!

Get informed (at the local authorities) about the current requirements and guidelines for responsible discharging!

Electrical tools, accessories and packaging have to be re-used in an environmentally sound manner.

12. Warranty

A warranty applies to the Dehaco AXO for a period of six months following delivery, in accordance with the *Metaalunie* conditions. Within this period and following an assessment made by Dehaco BV, material faults and factory faults may be repaired free of charge. Transport and/or travel costs will be at the expense of the customer.

No warranty is given for defects that are a result of:

- the equipment having been overworked
- the equipment having been used for activities other than for those which it is intended
- poor maintenance
- the information given in these instructions not having been properly followed
- the equipment having been used by persons not qualified to do so
- the equipment having been repaired using non-original spare parts
- the equipment having been adapted without the written consent of Dehaco BV.

13. Spare parts

All spare parts required for maintenance or repair are available from your supplier.



13. CE Declaration of conformity

ACCORDING TO ANNEX II.1.A OF THE MACHINE DIRECTIVE 2006/42/EG

WE, Demto B.V.,
Steurgat 3a,
NL-4251 NG WERKENDAM

DECLARE ENTIRELY WITHIN THEIR OWN AREA OF RESPONSIBILITY THAT THE PRODUCT:

Brand: DEMTO
Model: Nebiliser AXO
Type: DM-DDR-AX
Serie:

TO WHICH THIS STATEMENT APPLIES, IS IN ACCORDANCE WITH THE PROVISIONS OF THE FOLLOWING DIRECTIVES:

Machine Directive	2006/42/EG
Low voltage Directive	2006/95/EG
EMC Directive	2004/108/EG

AND IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND/OR OTHER NORMATIVE DOCUMENTS:

EN – ISO 12100-1en -2	Safety of machinery
EN – ISO 14121-1	Risc analysis
NEN 5509	User manuals <i>EN IN OVEREENSTEMMING IS MET DE</i>

DRAWN UP AT :

Werkendam, date: 22-02-2010

DEMTO B.V.
A.K.J.R. Horde