

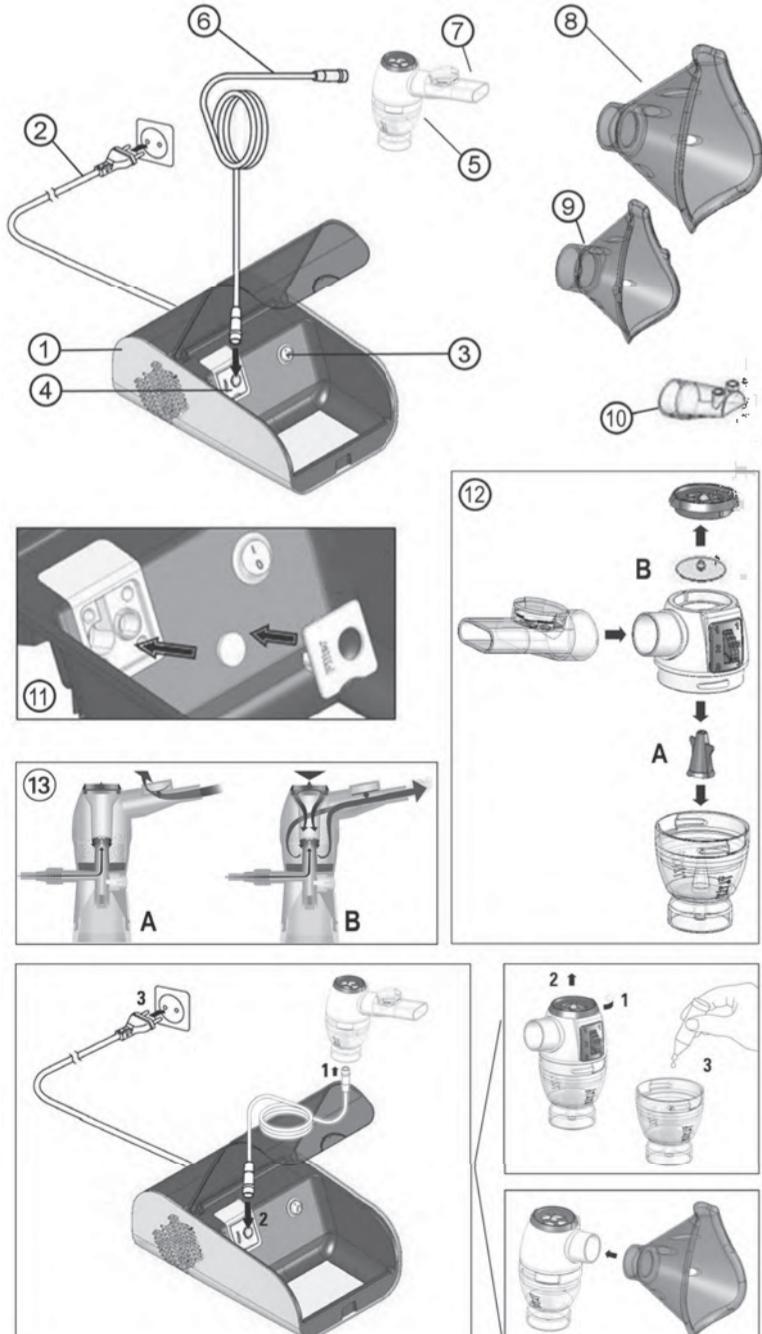


EN RU UA
Microlife NEB 10

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NEB 10

IB NEB 10 RU V3 2014



CE0434

Medical compressor nebuliser Model NEB 10

EN

- ① Medical compressor nebuliser
- ② Power lead
- ③ ON/OFF Switch
- ④ Air filter compartment
- ⑤ Nebuliser
- ⑥ Air hose
- ⑦ Mouthpiece for inhalation through the mouth
- ⑧ Adult face mask
- ⑨ Child face mask
- ⑩ Nose piece for inhalation through the nose
- ⑪ Replacing air filter
- ⑫ Assembling nebuliser kit
- ⑬ Operating diagram

Dear Customer,
This professional nebuliser is a high-quality device for inhalation therapy for the treatment and care of upper and medium/narrow respiratory tract.
The operation and usage of the device is very straightforward. All common liquid medication can be used for inhalation therapy.
Please read through these instructions carefully so that you understand all functions and safety information. We have the right to be held responsible for damage caused by incorrect application.
You dealer or pharmacist will be able to give you the address of the Microlife dealer in your country. Alternatively, visit our Internet at www.microlife.com where you will find a wealth of invaluable information on our products. Retain instructions in a safe place for future reference. Stay healthy - Microlife AG!

Read the instructions carefully before using this device.

- Ⓐ Type B applied part
Ⓑ Conformity mark
Ⓒ Class II equipment

CE 0434 CE Marking of Conformity

1. Important Safety Instructions

- This device may only be used for the purposes described in these instructions. The manufacturer cannot be held liable for damage caused by incorrect application.
- This device is not suitable for anaesthesia and lung ventilation.
- This device should only be used with original accessories as shown in these instructions.
- Do not use this device if you think it is damaged or notice anything unusual.
- Never open this device.
- This device comprises sensitive components and must be treated with caution. Observe the storage and operating conditions described in the «Technical Specifications» section.
- Protect it from:
 - water and moisture
 - extreme temperatures
 - impact and dropping
 - contamination and dust
 - direct sunlight
 - heat and cold
- Only use the medication prescribed for you by your doctor and follow your doctor's instructions with regard to dosage, duration and frequency of the therapy.
- Never bend the nebuliser over 60°.

Ensure that children do not use this device unsupervised; some parts are small enough to be swallowed.

Electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.

A Use of this device is not intended as a substitute for a consultation with your doctor.

2. Contraindications

For type, dose, contraindication and regime of medication follow the instructions of your doctor or respiratory therapist. Please carefully read the instructions of the drug before using it.

3. Preparation and Usage of this Device

Prior to using the device for the first time, we recommend cleaning it as described in the section «Cleaning and Disinfecting».

1. Assemble the nebuliser kit ⑫. Ensure that all parts are complete. Use the wheel on the upper part of the nebuliser to select the position most suitable for the therapy to be performed (see chapter 3).
2. Fill the nebuliser with the inhalation solution as per your doctor's instructions. Ensure that you do not exceed the maximum level.
3. Connect the nebuliser with the air hose ⑥ to the compressor ① and plug the power lead ② into the socket (230V - 50Hz).
4. Switch the ON/OFF switch ③ to position «1» to turn on the device and place the mouthpiece ⑦ in the mouth or fit one of the face masks ⑧ and ⑨.
- The mouthpiece gives you a better drug delivery to the lungs.
- Choose between adult ⑧ or child face mask ⑨ and make sure that it encloses the mouth and nose area completely.
- Use all accessories including the nose piece ⑩ as prescribed by your doctor.
5. Breathe in and out calmly during the therapy. Sit in a relaxed position with the upper body upright. Do not lie down while inhaling. Stop inhalation if you feel unwell.
6. After completing the inhalation period recommended by your doctor, switch the ON/OFF switch ③ to position «0» to turn off the device and unplug it from the socket.
7. Empty the remaining medication from the nebuliser and clean the device as described in the section «Cleaning and Disinfecting».

4. Choosing between 3 different Nebulisation Rates

The nebuliser generates an aerosol with variable characteristics to adapt to the patient's respiratory pathology. It can produce an aerosol with the granulometric characteristics that will deposit the maximum amount of the drug in the respiratory tract being treated.

Choose one of the 3 following therapeutic treatment settings by regulating the wheel on the nebuliser's ⑤ upper body:

- **Upper air passages (nose, throat, etc.):** Position the wheel towards the bottom at number 3: the aerodynamic diameter of the aerosol particles will be from 10 to 14 micron.
- **Tracheal / bronchial tract:** Position the wheel in the center at number 2: the aerodynamic diameter of the aerosol particles will be from 6 to 9 micron.
- **Deep air passages:** Position the wheel towards the top, at number 1: the aerodynamic diameter of the aerosol particles will be from 1 to 5 micron.

Advanced treatment

This treatment option allows the maximum amount of medication to be delivered thus reaching the respiratory capacity of each patient. The valve system optimally adapts the flow of medication during inhalation ③-B, reducing medication loss during exhalation ③-A. Use the breath-enhanced valve system (synchronized with the device) to obtain the best effects of the medication and to get the maximal benefit.

- Mount the membrane on the valve-holder and use the mouthpiece with expiratory valve ⑦-B.
- Fill with medication and connect the nebuliser top to the nebuliser bottom by rotating it clockwise.
- Follow the usage steps as described in «Section 3».

Only using the mouthpiece with expiratory valve ⑦ enables the synchronized functioning of the nebuliser.

Short treatment
The therapeutic session will be reduced if the membrane is not mounted on the valve-holder.

A synchronized nebulisation is not possible using this treatment option.

5. Cleaning and Disinfecting

Thoroughly clean all components to remove medication residuals and possible impurities after each treatment. The compressor ① and the air hose ⑥ should be cleaned with a clean, moist cloth.

- Always wash your hands well before cleaning and disinfecting the accessories.
- Do not expose the compressor to water or heat.
- Replace the air hose for each treatment with a new patient or in case of impurities.

Unplug the device before cleaning.

Cleaning with water

- Wash all nebuliser components (except air hose) under warm tap water (max. 60 °C) for about 5 minutes adding if necessary a small quantity of detergent following dosage and use limitations as provided by detergent manufacturer.

Rinse thoroughly making sure that all deposits are washed away and leave to dry.

Disinfecting

- All nebuliser components (except air hose) can be disinfected with chemical disinfectants following dosage and use limitations as provided by disinfectant manufacturer.

Disinfectants are usually available at pharmacies.

Sterilizing with steam
• All nebuliser components (except air hose and masks) can be sterilized by autoclave at 121 °C (20 min.) or 134 °C (7 min.) EN554/ISO11134.

The sterilization package must conform to EN868/ISO11160 and is suitable for steam sterilisation.

After sterilization always let all components cool down to ambient temperature before further use.

Do not repeat sterilization cycle when components are still warm.

6. Maintenance, Care, and Service

All spare parts from your dealer or pharmacist, or contact Microlife Service (see forward).

- We recommend replacing the nebuliser, mouthpiece, and the face masks after 3 months use.
- Check the filter continually for cleanliness and replace it if necessary, or after a maximum of 3 months use. Spare filters are provided with the device.

To replace the filter, open the air filter compartment ④ on the top of the device marked «Filter» and exchange the filter ⑪.

Never unscrew the plastic lid.

7. Malfunctions and Actions to take

- The device cannot be switched on:
 - Ensure the power lead ② is correctly plugged into the socket.
 - Ensure the ON/OFF switch ③ is in the position «1».
 - The device has automatically switched off due to overheating. Wait until it has cooled down and try again.

The nebuliser functions poorly or not at all

- Ensure the air hose ⑥ is correctly connected at both ends.
- Ensure the air hose is not squashed, bent, dirty or blocked. If necessary, replace with a new one.
- Ensure the nebuliser ⑤ is fully assembled and the colored vapouriser head ⑫ is placed correctly.
- Ensure the required medication has been added.

8. Guarantee

This device is covered by a 5 year guarantee from the date of purchase. The guarantee is valid only on presentation of the guarantee card completed by the dealer confirming date of purchase or the receipt.

- The guarantee covers only the compressor. The replaceable components like nebuliser, masks, mouthpiece, air hose, air filters, and filters are not included.
- Opening or altering the device invalidates the guarantee.

9. Technical Specifications

Nebulisation rate: Pos. 1: 0.23 ml/min
Pos. 2: 0.52 ml/min
Pos. 3: 0.68 ml/min
Average fill volume: 4 ml NaCl 0.9%

Particle size:
Pos. 1: 4.59 µm
Pos. 2: 7.47 µm
Pos. 3: 10.13 µm * Malvern system

Compressor air flow: 15 l/min.

Acoustic noise level: 53 dBA

Power source: 230V - 50Hz / 150VA

Power lead length: 1.5 m

Nebuliser capacity: min. 2 ml: max. 12 ml

Residual volume: 0.7 ml

Operating temperature: 10 - 40 °C / 50 - 104 °F

10 - 95% relative maximum humidity

Storage temperature: -25 - +70 °C / -13 - +158 °F
10 - 95% relative maximum humidity

Weight: 1700 g (including neb kit)
Dimensions: 280 x 270 x 107 mm
Included accessories: B

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