

Professional Compressor Nebuliser

EN



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Microlife AG
Distibutor

EN RU

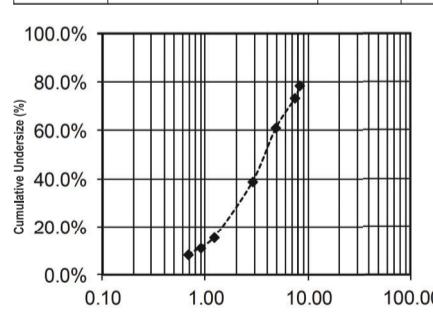
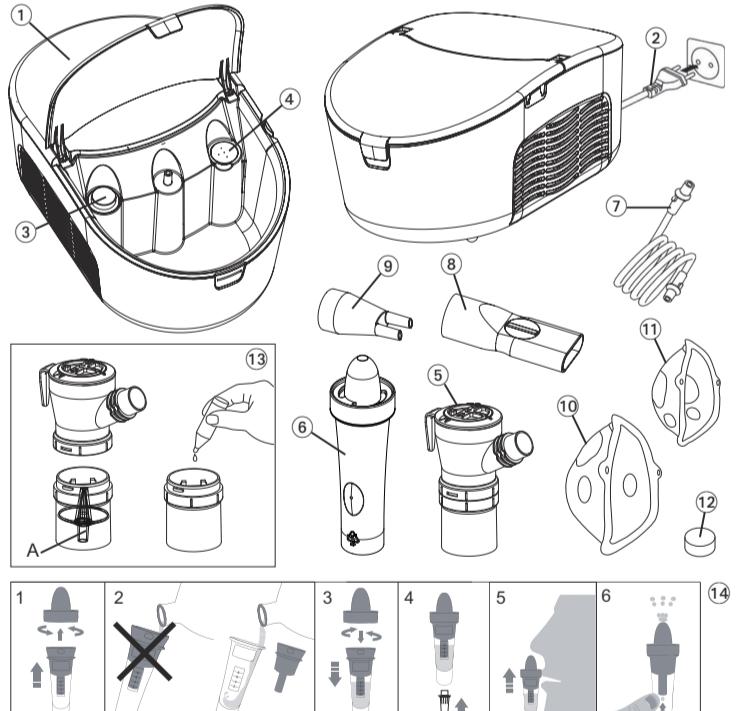
Professional Nebuliser

NEB PRO

microlife®

NEB PRO

IB NEB PRO EN-RU 3819



Guarantee Card

Name of Purchaser
Ф.И.О. покупателя

Serial Number
Серийный номер

Date of Purchase
Дата покупки

Specialist Dealer
Специализированный
дилер

Globalcare Medical Technology Co., Ltd
7th Building, 39 Middle Industrial Main Road,
European Industrial Zone, Xiaolan Town,
528415 Zhongshan City, Guangdong Province, PRC

Donawa Lifescience Consulting Srl
Piazza Albania, 10, 00153 Rome/Italy

CE 0123

- ① Piston compressor
- ② Power lead
- ③ ON/OFF Switch
- ④ Air filter compartment
- ⑤ Nebuliser
 - Advanced treatment (position A)
 - Short treatment (position B)
- ⑥ Nasal washer
- ⑦ Air hose
- ⑧ Mouthpiece with valve
- ⑨ Nose piece
- ⑩ Adult face mask
- ⑪ Child face mask
- ⑫ Air filter
- ⑬ Filling the nebuliser
- ⑭ Assembling and usage of the nasal washer

Dear Customer,
This nebuliser is an aerosol therapy system suitable for domestic use. This device is used for the nebulisation of liquids and liquid medication (aerosols) and for the treatment of the upper and lower respiratory tract.
If you have any questions, problems or want to order spare parts please contact your local Microlife-Customer Service. Your dealer or pharmacy will be able to give you the address of the Microlife dealer in your country. Alternatively, visit the internet at www.microlife.com where you will find a wealth of invaluable information on our products. Stay healthy - Microlife AG!

1. Explanation of Symbols

- Electronic devices must be disposed of in accordance with the locally applicable regulations, not with domestic waste.
- Read the instructions carefully before using this device.
- Type BF applied part
- Class II equipment
- Serial number
- Catalogue number
- Manufacturer
- ON
- OFF
- IP21 Protection against solid foreign objects and harmful effects due to the ingress of water
- Conformity mark

CE 0123 CE Marking of Conformity

2. Important Safety Instructions

- Follow instructions for use. This document provides important product operation and safety information regarding this device. Please read this document thoroughly before using the device and keep for future reference.
- 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.
- Do not operate the unit in presence of any anaesthetic mixture inflammable with oxygen or nitrogen protoxide.
- 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
- Comply with the safety regulations concerning the electrical devices and in particular:
 - Never touch the device with wet or moist hands.
 - Place the device on a stable and horizontal surface during its operation.
 - Do not pull the power cord or the device itself to unplug it from the power socket.
 - The power plug is a separate element from the grid power; keep the plug accessible when the device is in use.
- Before plugging in the device, make sure that the electrical rating, shown on the rating plate on the bottom of the unit, corresponds to the mains rating.
- In normal conditions of use, the air filter (12) must be replaced approximately after 500 working hours or after each year. We recommend to periodically check the air filter (10-12 treatments) and if the filter shows a grey or brown colour or is wet, replace it. Extract the filter and replace it with a new one.
- Do not try to clean the filter for reusing it.
- The air filter shall not be serviced or maintained while in use with a patient.
- Only use original filters! Do not use the device without filter!

7. Maintenance, Care, and Service

Order all spare parts from your dealer or pharmacist, or contact Microlife-Service (see foreword).

Replacement of the nebuliser

Replace the nebuliser (5) after a long period of inactivity, in cases where it shows deformities, breakage, or when the vapouriser head (13-A) is obstructed by dry medicine, dust, etc. We recommend to replace the nebuliser after a period between 6 months and 1 year depending on the usage.

Only use original nebulisers!

Replacement of the air filter

In normal conditions of use, the air filter (12) must be replaced approximately after 500 working hours or after each year. We recommend to periodically check the air filter (10-12 treatments) and if the filter shows a grey or brown colour or is wet, replace it. Extract the filter and replace it with a new one.

Do not try to clean the filter for reusing it.

The air filter shall not be serviced or maintained while in use with a patient.

Only use original filters! Do not use the device without filter!

8. 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 «».
- The nebuliser functions poorly or not at all

Ensure the air hose (7) 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 (13-A) is placed correctly and not obstructed.

Ensure the required medication has been added.

9. 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 (see back) confirming date of purchase or the receipt.

The guarantee covers only the compressor. The replaceable components like nebuliser, masks, mouthpiece, air hose, and filters are not included.

Opening or altering the device invalidates the guarantee.

The guarantee does not cover damage caused by improper handling, accidents or non-compliance with the operating instructions.

10. Technical Specifications

Nebulisation rate: 0.37 ml/min. (NaCl 0.9%)

Particle size: 57% < 5 µm

Max. free air flow: 15 l/min.

Operating air flow: 5.31 l/min.

Acoustic noise level: 52 dBA

Power source: 230V 50 Hz AC

Power lead length: 1.6 m

Nebuliser capacity: min. 2 ml; max. 8 ml

Residual volume: 0.8 ml

Operating limits: Continuous use

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

30 - 85 % relative maximum humidity

700 - 1060 hPa Atmospheric pressure

Storage and shipping conditions: 20 - 60 °C / -4 +140 °F

10 - 95 % relative maximum humidity

700 - 1060 hPa Atmospheric pressure

Weight: 1765 g

Dimensions: 289 x 180 x 127 mm

IP Class: IP21

Reference to standards: EN13544-1:EN60601-1;

EN60601-2;EN60601-6;

IEC 60601-1-1

Expected service life: 1000 hours

This device complies with the requirements of the Medical Device Directive 93/42/EEC.

Class I device as regards protection against electric shocks. Nebuliser, mouthpiece and masks are type BF applied parts.

The technical specifications may change without prior notice.

This device complies with first 8 digits of the LOT number of the device. First 4 digits: year / 5th and 6th digit: month / 7th and 8th digit: day of production.

Date of production: 1st digit: year / 2nd digit: month / 3rd digit: day / 4th digit: hour / 5th digit: minute / 6th digit: second

5. During inhalation, sit upright and relaxed at a table and not in an armchair, in order to avoid compressing your respiratory airways and impairing the treatment effectiveness. 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 «» 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».

The device requires no calibration.

No modification to the device is permitted.

4. NEB 2 in 1 - Aerosol therapy

The advanced «NEB 2 in 1» aerosol therapy allows effective treatments of the medium and lower respiratory tract (asthma, chronic bronchitis, cystic fibrosis etc.).

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, reducing medication loss during exhalation. Use the breath-enhanced valve system (synchronized with breathing) to optimize the therapeutic effects of the medication and to get the maximal benefit.

► Close the valve on the nebuliser top (5)-A (position A) and use the mouthpiece with expiratory valve (8).

► Fill with medication (13) and connect the nebuliser top to the nebuliser bottom by rotating it clockwise.

► Follow the usage steps as described in «Section 3».

To enable the synchronized with breathing function of the nebuliser, use only the mouthpiece with the expiratory valve (8). Do not use with masks or nose piece.

Short treatment

The therapeutic session will be reduced if the valve is open (position B).

A synchronized nebulisation is not possible using this treatment option.

5. Nasal washer

The nasal washer (6) is a medical device suitable for cleaning nasal cavities. The nasal washer helps to moisturize the nasal mucosa and creates a micronized jet for the treatment of respiratory problems of the upper airways (allergic and non-allergic rhinitis, rhinosinusitis, nasal polyps etc.).

1. Remove the nasal washer cover (14)-I by rotating counter clockwise.

2. Fill the container of the nasal washer with isotonic solution (14-2). Ensure that you do not exceed the maximum level.

3. Close the cover tightly by rotating clockwise (14-3).

4. Connect the nasal washer with the air hose (14-2) to the compressor (1) and plug the power lead (2) into the socket (230V 50 Hz AC).

5. Close the non-treated nostril with your finger.

6. Position the nasal washer cover on nostril and inhale through the nose (14-6).

7. Switch the ON/OFF switch (3) to position «» to turn on the device and place your finger over the aperture on the nasal washer to start the treatment (14-6).

We recommend changing from one nostril to the other every 10-20 seconds.

Children and people in need of care must be assisted for usage.

Only use with isotonic saline solution.

6. Cleaning and Disinfecting

Thoroughly clean all components to remove medication residuals and possible impurities after each treatment. Use a soft and dry cloth with non-abrasive cleaners to clean the compressor.

Make sure that the internal parts of the device are not in contact with liquids and that the power plug is disconnected.

Cleaning and disinfecting of the accessories

Follow carefully the cleaning and disinfecting instructions of the accessories as they are very important to the performance of the device and success of the therapy.

Before and after each treatment

Disassemble the nebuliser (5) by turning the top counter-clockwise and remove the medicine conduction cone. Wash the components of the disassembled nebuliser, the mouthpiece, nose piece and masks using tap water; dip in boiling water for 5 minutes. Reassemble the nebuliser components and connect it to the air hose connector, switch the device on and let it work for 10-15 minutes.

Wash the air tube with warm water.

Only use cold disinfecting liquids following the manufacturer's instructions.

Do not boil nor autoclave the air tube.

7. Maintenance, Care, and Service

Order all spare parts from your dealer or pharmacist, or contact Microlife-Service (see foreword).

Replacement of the nebuliser

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Only use original nebulisers!