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www.microlife.com

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# microlife®



## NEB 420

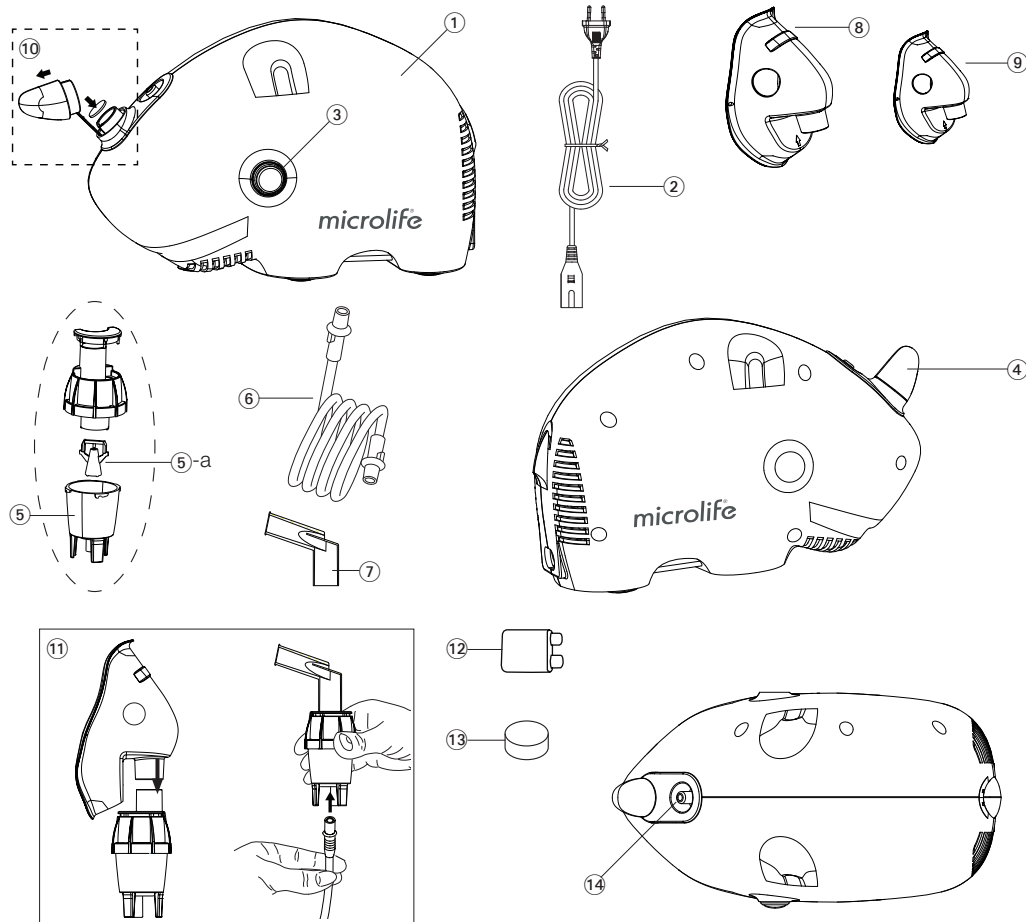
### Children's Nebuliser

EN



1

IB NEB 420 EN-Master 3325  
Revision Date: 2025-08-07



Name of Purchaser / Inköparens namn / Ostajan nimi / Kjøpers navn / Pirceja vārds un uzvārds / Pirkejo pavadē / Ostja nimi / Φ.Ι.Ο. покупателя / Nombre del comprador / Nom de l'acheteur / Nome del rivenditore / Name des Käufers / Alıcının adı / Nome do comprador / Naam koper / Ονοματεπώνυμο αγοραστή / نام خریدار / اسم المشتري

Serial Number / Sarjanumero / Seriennummer / Sērijas numurs  
/ Serijos numeris / Seerianumber / Серийный номер / Número de serie / Numéro de série / Numero di serie / Serien-Nr. / Seri  
numaras / Número de série / Seriennummer / Αριθμός σειράς  
/ مدل / رقم التسلسل

Date of Purchase / Inköpsdatum / Ostopäivämäärä / Kjøpsdato /  
Legjades datums / Pardavimo data / Ostukuu päev / Дата покупки  
/ Fecha de compra / Date d'achat / Data d'acquisto / Kaufdatum  
/ Satin alma tarihi / Data da compra / Datum van aankoop /  
Ημερομηνία αγοράς / تاريخ الشراء / شماره سريل

Specialist Dealer / Återförsäljare / Alan kauppias /  
 Special-forhandler / Spezialist forhandler / Specializētais pārstāvis /  
 Pardavusi įstaiga / Amelik müügiesindaja / Специализированный  
 дилер / Distribuidor especializado / Revendeur / Categoria  
 riven-ditore / Fachhändler / Uzman satıcı / Revendedor  
 autorizado / Specialist Dealer / Εξειδικευμένος αντιπρόσωπος  
 تاربخ خريد / التاجر المختص /

Please keep filled guarantee card and invoice; you'll need guarantee service as required, contact the dealer from where the product was purchased / Spira fillit garantii oohi faktura; vid behov av garantisevice, kontakta återförsäljaren där produkten köptes / Säilytä täytetty takuukortti ja lasku. Jos takuuhuoltota tarvitaan, ota yhteyttä tuotteen myyntipaikkaan / Öppbevis utfyllt garantiort och kvitningar. Vid det skede väres behov för garantitjänste, kontakta försäljaren hvor du köpte produkten / Saglabajit aşıldırdı garantias kartını u rəqin; ja bıs nıspedıesımea garantias apkalposıa, saznıetıe ar ızplattajıru, kur tegadıajıas ızstradıajıru / İssagucıde ızpıldırdı garantı nı talonı ar ızsaakat fıktura. İne prıerıktı garantıne aptarnavıno, kreıpkıetı / pardavetı, ız kurto prıektı preke / Hoıdte tıdetıed garantıne kartı ja arve alles, garantıneenuste vajaduse korral võtke ühendust edasimüıajaga, kelle käest toote ostsite / Сохраните заполненный гарантийный талон и квитанцию. 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***microlife®***

- ① Piston compressor
- ② Power lead
- ③ ON/OFF Switch
- ④ Air filter compartment
- ⑤ Nebuliser  
-a: Vaporiser head
- ⑥ Air tube
- ⑦ Mouthpiece
- ⑧ Adult face mask
- ⑨ Child face mask
- ⑩ Replacing air filter
- ⑪ Assembling nebuliser kit
- ⑫ Nose piece
- ⑬ Air filter
- ⑭ Air outlet



This product is subject to European Directive 2012/19/EU on waste electrical and electronic equipment and is marked accordingly. Never dispose of electronic devices with household waste. Please seek out information about the local regulations with regard to the correct disposal of electrical and electronic products. Correct disposal helps to protect the environment and human health.



Read the instructions carefully before using this device.



Type BF applied part



Class II equipment



Serial number



Reference number



Manufacturer



ON

OFF

Protection against solid foreign objects and harmful effects due to the ingress of water  
Authorized representative in the European Union



Medical device



Importer



Distributor



Caution



Single patient  
multiple use (for accessories only)



Humidity limitation for operating **and** storage



Temperature limitation for operating **or** storage



Ambient pressure limitation



Unique Device Identifier



CE Marking of Conformity

## Intended use:

The device is an aerosoltherapy system suitable for domestic use. The device is designed for the production of compressed air to operate a small volume nebuliser for the production of medical aerosol for lung respiratory disorders.

## Patient population:

The device is intended for use with children from 2 years old, adolescent and adult patients.

**Intended user:**

The use of the device does not require a specific knowledge or professional ability. The patient is the intended operator except in case of child and patient that required special assistance.

**Indications:**

Lung acute or chronic diseases of respiratory disorders organs, or inflammation of the upper respiratory system.

**Contra-indications:**

The device is not indicated to be used with quick-relief medications during life-threatening asthma attacks. No contraindications exist to the administration of aerosols by inhalation. Contraindications related to the medicine used must be checked on the medicine package leaflet. Consult your physician in case of doubts.

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](http://www.microlife.com) where you will find a wealth of invaluable information on our products.

Stay healthy – Microlife Corporation!

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**1. Important safety instructions**

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- 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.
- Retain instructions in a safe place for future reference.
- Do not operate the unit in presence of any anesthetic mixture inflammable with oxygen or nitrogen protoxide.
- This device is designed to nebulise solution and suspension liquids.
- This nebulizing system is not suitable for use in anaesthetic breathing system or a ventilator breathing system.
- 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 Guarantee Card (see Backcover)» 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 case the power plug provided with the device does not fit your wall socket, contact qualified personnel for a replacement plug with that of a suitable one. In general, the use of adapters, simple or multiple, and/or extension cables is not recommended. If their use is indispensable, it is necessary to use types complying with safety regulations, paying attention that they do not exceed the maximum power limits, indicated on adapters and extension cables.
- Do not leave the unit plugged in when not in use; unplug the device from the wall socket when it is not in operation.
- The installation must be carried out according to the instructions of the manufacturer. An improper installation can cause damage to persons, animals or objects, for which the manufacturer cannot be held responsible.
- Do not replace the power lead of this device. In case of a power lead damage, contact a technical service center authorized by the manufacturer for its replacement.
- The power supply cord should always be fully unwound in order to prevent dangerous overheating.
- Before performing any maintenance or cleaning operation, turn off the device and disconnect the plug from the main supply.
- 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.
- Depending on the pathology, only use the treatment that is recommended by your doctor.
- Only use the nose piece if expressly indicated by your doctor, paying special attention NEVER to introduce the bifurcations into the nose, but only positioning them as close as possible.
- Check in the medicine instruction leaflet for possible contraindications for use with common aerosol therapy systems.
- Do not position the equipment so that it is difficult to operate the disconnection device.
- Nebuliser and applied parts are single patient use. Device is multi-patient use.
- Never bend the nebuliser over 60°.
- Do not use this device close to strong electromagnetic fields such as mobile telephones or radio installations. Keep a minimum distance of 3.3 m from such devices when using this device.



Ensure that children do not use this device unsupervised; some parts are small enough to be swallowed. Be aware of the risk of strangulation in case this device is supplied with cables or tubes.



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

## 2. 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 (11). Ensure that all parts are complete.
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 tube (6) to the compressor (1) and plug the power lead (2) into the socket (230 V 50 Hz AC).
4. To start the treatment, set ON/OFF switch (3) into the «I» position.
  - The mouthpiece (7) 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 applied parts including the nose piece (12) as prescribed by your doctor.
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 «O» 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»



**This device was designed for intermittent use of 30 min. On / 30 min. Off.** Switch off the device after 30 min. use and wait for another 30 min. before you resume treatment.




The device requires no calibration.

 No modification to the device is permitted.

### 3. 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 counterclockwise and remove the medicine conduction cone. Wash the components of the disassembled nebuliser, the mouthpiece ⑦ and the nose piece ⑫ by using tap water; dip in boiling water for 5 minutes. Reassemble the nebuliser components and connect it to the air tube connector, switch the device on and let it work for 10 – 15 minutes.

 Cleaning of the nebuliser cup is recommended after each aerosol treatment. Disinfecting is recommended once a week.

 Wash the mask with warm water.

 There is no need to clean the air tube. If necessary, wipe the surface regularly.

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


 Do not boil nor autoclave the air tube and masks.

### 4. 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 vaporiser head ⑤-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 ⑬ must be replaced approximately after 200 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!

### 5. Malfunctions and actions to take

Use following table for solutions if any problem occur.

Description	Symptom/ Possible causes	Solutions
Nothing happens when the power switch is pressed.	Is the AC plug connected correctly to the electrical outlet and the compressor?	Check that the plug is inserted in an electrical outlet. Unplug then reinsert the plug if necessary.

Description	Symptom/ Possible causes	Solutions
No nebulisation or low nebulisation rate, when the power is on.	Is there medication in the medication tank?	Add the correct amount of medication to the medication tank.
	Is there too much/little medication in the medication tank?	
	Is the vaporiser head missing and not assembled correctly?	Attach the vaporiser head correctly.
	Is the nebuliser kit assembled correctly?	Assemble the nebuliser kit correctly.
	Is the nozzle blocked?	Make sure that the nozzle is free of blockages.
	Is the nebuliser kit tilted at a sharp angle?	Make sure that the nebuliser kit is not tilted at an angle of more than 45 degrees.
	Is the air tube connected correctly?	Make sure that the air tube is correctly connected to the compressor and nebuliser kit.
	Is the air tube folded or damaged?	Make sure that the air tube does not contain kinks.
The device is abnormally loud.	Is the air tube blocked?	Make sure that the air tube is free of blockages.
	Is the air filter dirty?	Replace the air filter with a new one.
	Is the air filter cover attached correctly?	Attach the air filter cover correctly.

Description	Symptom/ Possible causes	Solutions
The device is very hot.	Is the compressor covered?	Do not cover the compressor with any type of cover during use.

**Note:** If the suggested remedy does not solve the problem, do not try to repair the device – no parts of the unit are user serviceable. Return the unit to an authorized retail outlet or distributor.

## 6. Guarantee

This device is covered by a **5 year guarantee** from the date of purchase. During this guarantee period, at our discretion, Microlife will repair or replace the defective product free of charge. Opening or altering the device invalidates the guarantee. The following items are excluded from the guarantee:

- Transport costs and risks of transport.
- Damage caused by incorrect application or non-compliance with the instructions for use.
- Damage caused by accident or misuse.
- Packaging/storage material and instructions for use.
- Regular checks and maintenance (calibration).
- Applied and wearing parts: Nebuliser, masks, mouthpiece, nose piece, tube, filters, nasal washer (optional).

Should guarantee service be required, please contact the dealer from where the product was purchased, or your local Microlife service. You may contact your local Microlife service through our website: [www.microlife.com/support](http://www.microlife.com/support)

Compensation is limited to the value of the product. The guarantee will be granted if the complete product is returned with the original invoice. Repair or replacement within guarantee does not prolong or renew the guarantee period. The legal claims and rights of consumers are not limited by this guarantee.

## 7. Technical specifications Guarantee Card (see Backcover)

<b>Model:</b>	NEB 420
<b>Aerosol performances according to EN ISO 27427:2023 based on adult ventilatory pattern with Albuterol 0.1%(M/V) concentration in 0.9% sodium chloride solution:</b>	
<b>Nebulisation rate:</b>	0.30 ~ 0.60 ml/min. (NaCl 0.9%)
<b>Aerosol output:</b>	0.436mg
<b>Aerosol output rate:</b>	0.101 mg/min
<b>Residual Volume:</b>	≤ 0.5 ml
<b>Particle size (MMAD):</b>	~2.6 µm
<b>GSD (geometric standard deviation):</b>	3.051
<b>RF (respirable fraction):</b>	73.21% < 5 µm 40.14% < 2 µm
<b>Maximum air pressure:</b>	2.41 bar
<b>Working flow rate range:</b>	5 ~ 8 l/min.
<b>Sound noise level (average level):</b>	58 dBA
<b>Power source:</b>	230 V 50 Hz AC
<b>Current:</b>	≤ 700 mA
<b>Power lead length:</b>	1.5 m
<b>Nebuliser capacity:</b>	min. 2 ml; max. 6 ml
<b>Operating limits:</b>	30 min. On / 30 min. Off
<b>Operating conditions:</b>	5 – 40 °C / 41 – 104 °F 15 – 90 % relative maximum humidity 700 – 1060 hPa Atmospheric pressure
<b>Storage and shipping conditions:</b>	-25 – +70 °C / -13 – +158 °F up to 95 % relative maximum humidity 700 – 1060 hPa Atmospheric pressure
<b>Weight:</b>	approx. 1260 g
<b>Dimensions:</b>	224 x 125 x 139 mm
<b>IP Class:</b>	IP21
<b>Reference to standards:</b>	EN ISO 27427:2023; EN 60601-1; EN 60601-2; EN 60601-1-6; IEC 60601-1-11
<b>Expected service life:</b>	1000 hours

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



The technical specifications may change without prior notice.

Please report any serious incident that has occurred in relation to the device, injury or adverse event to the local competent authority and to the manufacturer or to the european authorised representative (EU REP).

### Important information regarding Electromagnetic

**Compatibility (EMC):** This product, manufactured by Shenzhen Bi-rich Medical Devices Co., Ltd, conforms to the Electromagnetic Compatibility (EMC) standard EN 60601-1-2:2015/A1:2021. Further documentation in compliance with this EMC standard is available from Microlife on [www.microlife.com/electro-magnetic-compatibility](http://www.microlife.com/electro-magnetic-compatibility).

