

Instruction for Use

Portable Mesh Nebulizer

NEB-01-C

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1. Safety Notes

Before using the appliance for the first time, read the Instructions for Use carefully and ensure you comply with the safety instructions!

- The appliance must only be used as described in these instructions. The manufacturer is not liable for damages arising from any use contrary to the intended purpose.
- Keep these instructions for future reference.
- If you pass the appliance on to someone else, please include these instructions.

- ⚠ Do not use health products or medicines containing essential oils for nebulization.
- ⚠ For the type, dose, and regimen of the medication, be sure to follow the instructions of a doctor.
- ⚠ Children may not play with the appliance.
- ⚠ This appliance may be used by persons with reduced physical, sensory or mental capabilities, or by persons with little or no knowledge of the appliance, as long as they are under proper supervision and have received instructions as to the safe use of the appliance, and as long as they understand the implicit risks.
- ⚠ This unit is only used for specified purposes, only for nebulization. Do not use the device for any other purpose.
- ⚠ Clean and disinfect the medication cup and accessories before using or if you will not use the unit for a long time.
- ⚠ Stop using the device if the components are damaged or fall into water accidentally.
- ⚠ **Intended User**
The device is a mesh nebulizer designed to aerosolize liquid for inhalation therapy in professional healthcare and in home healthcare environment.
Suitable for pediatric and adult patient. Infants, children and compromised individuals should use it under adult supervision.

-  Do not expose the nebulizer and accessories to corrosive liquids and gases.
-  Do not wrap the power cord around the unit.
-  Do not use nebulizer near a heating device or open flame.
-  Do not use a microwave oven, fan or hair dryer to dry or disinfect the nebulizer or accessories.
-  Do not immerse the main unit in water or wash under running water.
-  Do not use the device in shower!
-  Do not spill liquid on the device to avoid leakage, the possibility of electric shock or malfunction.
-  Do not touch the center of spray mesh by hand or other sharp objects. It may cause damage, so you will not be able to use it.
-  The nebulizer has no moisture and dust function, and the product should not be stored in a wet or dusty environment.
-  Volatile oils are not allowed, as they may cause damage to the module.
-  Oily medications are not allowed.

2. Disposal



At the end of the nebulizer lifetime, we recommend not to dispose of the appliance as ordinary waste, but to leave it with personnel qualified to collect such material. In this way, it will be properly disposed of and recycled. This is a valuable aid for safeguarding our environment!

This product contains batteries. The symbol indicates that the battery should not be disposed of with normal household waste. Instead, they should be handed over to appropriate collection point to be recycled.

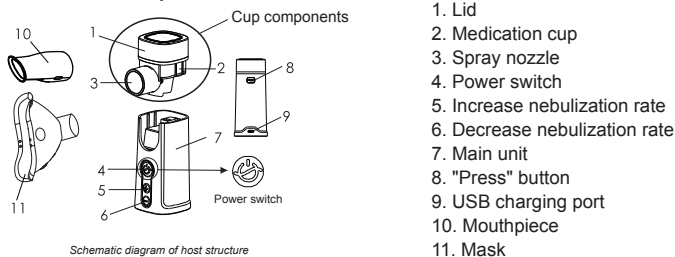
⚠ Warning: Do not dump batteries into fire. Never incinerate or dispose of batteries in fire as they may explode. This is very dangerous and prohibited.
For your own safety, don't remove the battery from the product and please contact only authorized Zepher Service Centre.

3. Item Description

3.1 Content of Packaging

- a) Portable mesh nebulizer
- b) Medication cup
- c) Spray nozzle
- d) USB micro cable

3.2 Device description



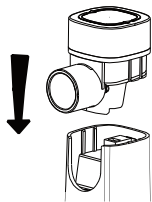
Schematic diagram of host structure

4. Instruction for Use

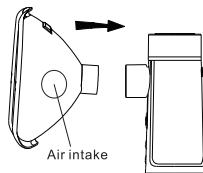
4.1 Before First Use

1. Remove all packaging from the main device and accessories.
2. Verify if all content is intact.
3. Charge the appliance minimum for 30 min before first use.

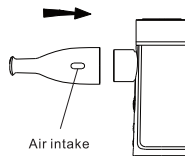
4.2 Installation



Connect the medication cup



Connect the mask



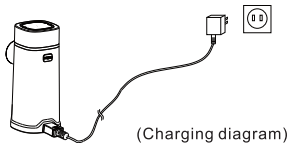
Connect the mouthpiece



Note: Clean, disinfect and dry all parts before installation

4.3 Charging

1. When the low battery is detected, the blue indicator flashes for 5 times and turns off.
2. Plug the USB cable to mini connector, connect the other terminal to power adapter and charge the device. Use the power adapter with rated output DC 5.0 V, 1A.
3. While the device is charging, the green indicator flashes continually.
4. The LED indicator is lit steadily when the battery is fully charged.
5. The appliance can be used during charging process.



- ⚠ Note! Before charging, make sure it is normally charged through the connected socket.
- ⚠ Note! This device is independent charging, do not use any other electronic equipment for charging.

4.4 Instruction for Use

Description of indicators

| | |
|--|---|
| Blue light keeps on (uniform nebulization mode) | Working |
| Blue light flashes (microwave mode) | |
| Blue light flashes 3 times | Long press for 3 seconds to switch the atomization mode |
| Blue light flashes 5 times | Battery low, shut down |
| Orange light flashes 10 times | Without medication and shut down |
| Green light flashes | Charging |
| Green light keeps on | Fully charged |
| Blue light flashes 10 times | 10 minutes set time |

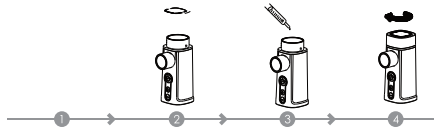


Note: There is enough liquid, but the orange light flashes ten times. While the orange light is flashing, press switch key once to continue work.

1. Clean and disinfect the component and spray nozzle medication cup before each use.
2. Inject the liquid: Open the cap by turning it counterclockwise, inject the solution and return the cap by turning it clockwise.



Note! Add the liquid before turning on the device.

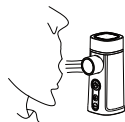


- ⚠ Note:** Do not exceed the maximum capacity of 10 ml of the liquid. After injecting the liquid, do not open the liquid cup lid, so as not to spill liquid.

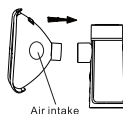
The nozzle is a disposable accessory, max. reusable time is up to 3 times. It is only for single person use and can't be shared, to avoid cross-infection.

4.5 Nebulization

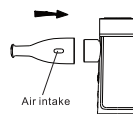
- 1) Connect mask or mouthpiece, click "⊗" to switch power on, start nebulization.
- 2) It starts with a medium spray rate, and spray rate can be adjusted by pressing "+" & "-" as needed.
- 3) This device also has a microwave mode in which the spray rate is changed automatically with the breathing. After the device is started, long press "⊗" button for 3s (when the blue light flashes 3 times) to switch to the microwave mode.
- 4) After switching to the surge mode, press and hold the "⊗" button for 3s, or press "+" or "-" to switch back to uniform mode.
- 5) Breathe before atomization, shake slightly for full contact of the solution with atomizer. Use the following three ways of inhalation according to individual needs.



a. Direct inhalation



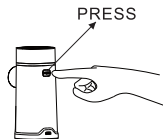
b. By mask



c. By mouthpiece

- 6) Slowly take a deep breath and then breathe in the medication.
- 7) The nebulizer can set the working time to 10 minutes, and it will shut down automatically after 10 minutes. If you need to continue to use, press the power switch "⊗". Please make sure there is enough liquid in the medication cup.
- 8) After nebulization, press the power switch "⊗" to turn off and stop the nebulization. Pour out the traces of residual liquid in the medication cup and do not reuse.

a. Press the button



b. Pull up the medication cup

- 9) Use clean water to clean the medication cup, spray nozzle, lid, threaded assemblies and accessories, and then follow the recommended method of disinfection.

⚠ Note:

- 1) Hold nebulizer to keep the liquid and nebulization mesh disc in full contact. Slight swing does not affect the use, but do not lean back.
- 2) Liquid can be coagulated around the spray connector and mesh disc, which will affect the nebulization. You should stop nebulization, remove the nozzle and other accessories. Then use a clean medical gauze to wipe the residue. Do not touch the mesh disc center spray area to prevent damage to the mesh disc.

5. Cleaning and Disinfection Method

After each use, it is necessary to clean and disinfect the cup components (including spray nozzle, medication cover), mask and mouthpiece. The specific methods of cleaning and disinfection are recommended as follows:

1. Cleaning

Please turn off the power when cleaning the device. Do not connect the device with power supply.

- 1) Remove the components from the main unit: the medication cup components (including the spray nozzle, medication cover), the inhalation mask or the mouthpiece, and soak them in clean warm water (which is no more than 40 degrees centigrade) for about 5 minutes.
- 2) After cleaning, wipe all the components with clean and sterile medical gauze, and let them dry sufficiently.
- 3) Wipe the outer shell of main unit. If there is medication residue at the electrode contact, please clean it with wet sterile medical gauze. After cleaning, keep the main unit dry.
- 4) Store all the parts in a dry and clean place to avoid contamination.

▲ Notes: The main unit cannot be washed with water to prevent water from entering the main unit. Use clean sterile gauze to wipe the moisture on the main unit and components and keep them dry to ensure safe use next time.

2. Disinfection

After each use, it is necessary to disinfect the components of the cup, including spray nozzle, medication cover, mask, mouthpiece, etc., as follows:

1) Disinfection with hydrogen peroxide

Disinfect all the components by placing them in 2% hydrogen peroxide for 10 minutes, including medication cup components (such as spray nozzle and medication cover), mask and mouthpiece, or wipe and disinfect the medication cup components (including spray nozzle, medication cover), mask and mouthpiece. After disinfection, rinse all the parts with distilled water, then wipe with clean and sterile medical gauze or air-dry naturally to keep all parts dry.

- A. Please study the user guidance of hydrogen peroxide and do not immerse in solution for a long time.
- B. Do not use strong oxidizing agents such as perchlorate or disinfectants that are corrosive to metals, polymer compounds or polymers.

2) Ethanol disinfection

Place the liquid cup components (including spray nozzle, medication cover), mask and mouthpiece in 75% medical ethanol for 5~10 minutes for disinfection, or wipe and disinfect the medication cup component (including spray nozzle, medication cover), mask and mouthpiece. After disinfection, rinse all the parts with distilled water, then wipe with clean and sterile medical gauze or air-dry naturally to keep all parts dry.

▲ Notes: Disinfectants remaining on components need to be wiped with sterile medical gauze to ensure safe use next time. Do not touch the central area of the mesh diaphragm when washing or cleaning the spray nozzle, so as to avoid damaging the mesh diaphragm.

5. Technical Data

| | |
|-------------------------------|--|
| Product name | Portable Mesh Nebulizer |
| Product Item code | NEB-01-C |
| Type of battery | Li-ion battery, DC2.4V, 2x500mAh, 1.2 Wh |
| Charging time | Approx. 2 hrs |
| Usage time | 60 minutes continual use after full charge |
| Charger/Adaptor input | 100-240V~, 50/60Hz, 0.5 A |
| Charger/Adaptor output | 5V 1.5 A |
| Country of origin | China |

7. Trouble Shooting Guideline

| Trouble shooting for nebulizer | | |
|--------------------------------|--|---|
| Item | Trouble | Possible cause/solution |
| 1 | Does not work when turned on | <ol style="list-style-type: none"> 1) Check whether the nebulizer is charged. If the blue and green indicators are always on, recharge the device. 2) Check if the medication cup has been fully filled. |
| 2 | Low nebulization | <ol style="list-style-type: none"> 1) Check if the medication cup has been filled with the right medication, which should be water soluble and non-corrosive. 2) Check whether there is enough liquid. 3) Tilt the unit so that the medication is in contact with the spray mesh. 4) The spray mesh may be blocked, you can drop 2 or 3 drops of white vinegar into the medication cup with 3-6 ml of water. Clean the medication cup to disinfect for next nebulization. |
| 3 | Which medication is more suitable for nebulization | <ol style="list-style-type: none"> 1) Please refer to and follow doctor's advice. 2) Only doctors can advise the users which medication should be used for treatment. 3) Don't use a medication that is too sticky. |
| 4 | Medication residue | <ol style="list-style-type: none"> 1) It is normal, but if there is some strange noise or the unit shuts off due to insufficient medication, stop the nebulization. |
| 5 | Special care for babies and children | <ol style="list-style-type: none"> 1) Please use the babies mask to cover mouth and nose for better effect. 2) Please use kids mask to cover mouth and nose for better effect. <p>⚠ Note: Children and babies should be helped and watched by an adult when using the device. Keep it away from children when not in use.</p> |
| 6 | Each user needs individual consumable item | <ol style="list-style-type: none"> 1) Each user should use individual consumable items, including mask, mouthpiece. |

8. Declaration of Conformity

Portable mesh nebulizer complies with European directives:

- a) Directive 2006/95/EC of the European Parliament and of the Council relating to electrical equipment designed for use within certain voltage limits
- b) Directive 2014/30/EU of the European Parliament and of the Council on the harmonization of the laws of the Member States relating to electromagnetic compatibility (recast)
- c) Directive 2011/65/EU of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment

9. Warranty

This device can only be assigned to the functions it has been designed for, i.e. nebulization. The manufacturer cannot be held responsible for any damage deriving from improper, incorrect or unreasonable use.

All our appliances have undergone strict inspection test and are guaranteed against manufacturing defects. The guarantee starts from the date of purchase. The date of purchase is the date shown on the invoice issued by the dealer upon the delivery of the appliance. **Evidence of original purchase is required for warranty services, so it is important to keep your sales receipt.** The warranty period is applicable according to local country law and regulation in force.

The manufacturer undertakes to repair or replace cost-free within the warranty period those parts that prove to have manufacturing defects. Those defects that are not clearly attributable to either material or the manufacturing will be examined at one of ZEPTER Service Centres or at our headquarters and charged according to the outcome.

The warranty is only valid if:

- The device shows material or manufacturing defects
- No signs of breaking by the customer or the presence of no original pieces fit by other people had been found.

The warranty does not include:

- the parts which can normally wear out
- the damages caused by transport, inadequate use, negligence and/or incorrect use
- any damages due to nebulizer being used for unintended purposes
- any damages due to non-observance of safety regulations or the instructions in the User Manual
- any damages to the product resulting from repairs and/or maintenance done by unauthorized repair centre

This guarantee does not affect the consumer's statutory rights under applicable national legislation in force, nor the customer's rights against the retailer arising from the sales/purchase agreement.

In the absence of applicable national legislation, this guarantee will be consumer's sole and exclusive legal remedy, and the manufacturer shall not be liable for any incidental or consequential damages for breach of any express or implied guarantee of this product. The liability of manufacturer is limited to and shall not exceed the purchase price of the product actually paid by the consumer.

⚠ Attention! If, after the purchase of the product, its label with serial number has been removed or is not recognizable, the manufacturer reserves the right to refuse the warranty service. If you have any comments or questions concerning the functioning of the device or warranty, please contact your ZEPTEK Sales Representative.