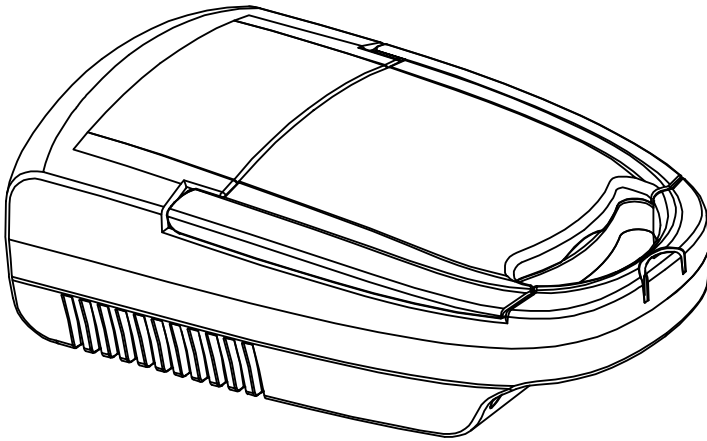


Air Compressed Nebulizer

User Manual



110V

Version: V1.0 Revision date: 2025-10

ENSMCN3202510103ZGZ/25110415.010/13.14.001.0363

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1 Product Introduction

1.1 Intended Purpose

The nebulizer is designed to aerosolize liquid medications for inhalation by the patient. The device may be used with pediatric, defined by the prescribed medication, and adult patients in medical facility, such as Hospital, clinic and doctors office, in a room of general household.

1.2 Contraindications

Patients who are unconscious or are not breathing spontaneously.

1.3 Structural composition

Air Compressed Nebulizer consists of a compression pump, casing, atomization device, and power plug. The atomization device includes an atomizing cup, a connecting tube, a mouthpiece, and a face mask.

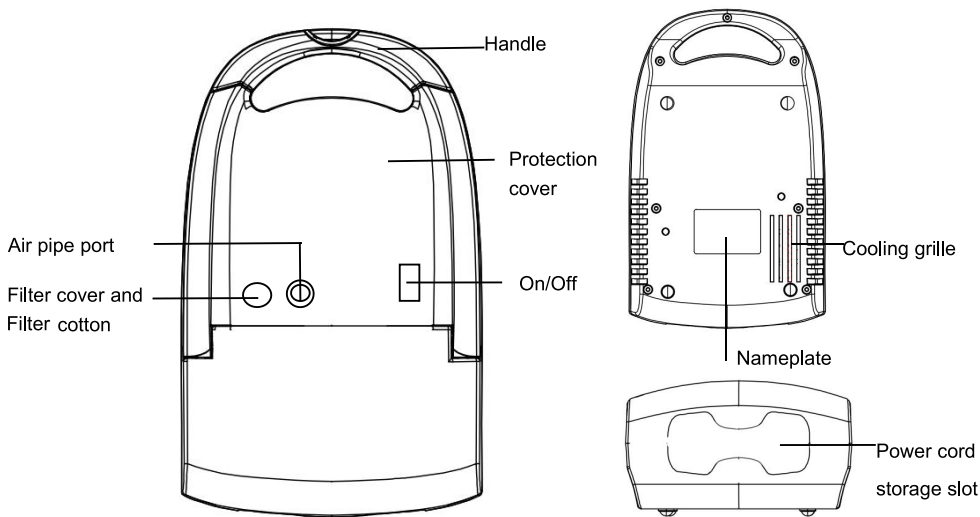


Figure1 Host

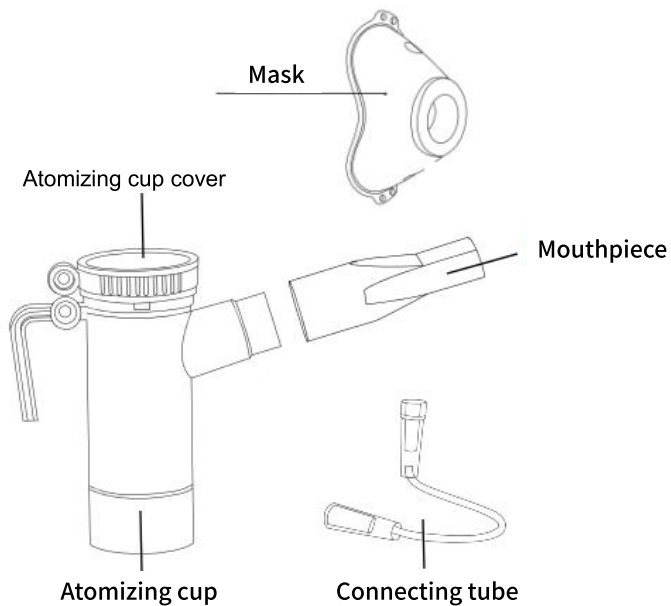
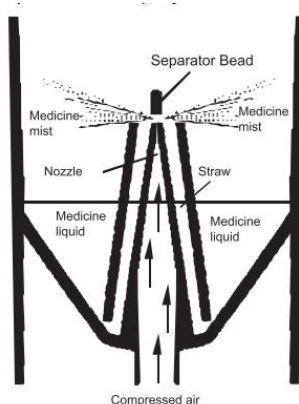


Figure2 Atomization device

1.4 Working principle

Schematic diagram of working principle: When the compressed air generated by the pump inside the device is ejected from the nozzle, the negative pressure generated between the mouthpiece and the suction pipe sucks up the liquid medicine. The sucked medicinal solution impacts the upper septum and is sprayed to the outside in a very fine mist.



1.5 Product Characteristics and Indicators

- 1.Power supply:Input: AC 110V, 60Hz
- 2.Maximum atomization rate:≥0.2mL/min
- 3.The residual amount of liquid medicine:≤1.0mL
- 4.Mistparticle size (MMD):4μm±25%
- 5.Output pressure:60-130kPa.
- 6.Fuse tube: F2A/250V
- 7.Free flow of compression pump:≥4.5L/min
- 8.Noise:≤60dB (A)
- 9.Net weight:about 1530g (device only)
- 10.Input power:≤100W
- 11.Safety classification:equipment that cannot be used in the presence of flammable anesthetic gas mixed with air or flammable anesthetic gas mixed with oxygen or nitrous oxide
- 12.Ingress protection level:IP22
- 13.Size:about 288*177*101 mm
- 14.Anti-shock type classification:Class II equipment
- 15.Classification of degree of protection against electric shock:Type BF application
- 16.Service life:3 years.

17.Normal working conditions:

Environmental range:+5℃~+40℃

Relative humidity range:15%~93%

Atmospheric pressure range:86kPa~106kPa

18.Storage and transportation environment conditions:

Environmental range:-20℃~+55℃

Relative humidity range:15%~93%

Atmospheric Pressure range:70kPa~106kPa

19.When the ambient temperature is 20℃, the time required for the equipment to be ready for its intended use from the minimum storage temperature after use is about 30min;



NOTE

- When the storage and transportation temperature is lower than 5℃,the equipment shall restore to normal working conditions before use.
- This product shall store in a well-ventilated room to avoid severe shock during transportation.

2 Installation Instruction

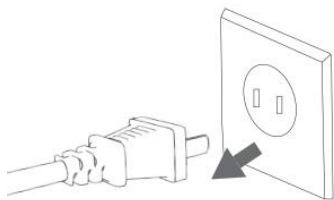
To ensure the correct use of this product by users,please read this manual carefully and strictly follow the instructions in the manual for operation.If in doubt,please contact the supplier or manufacturer.

2.1 Unpacking and Inspection

Before installing and debugging the product,the user shall first check the appearance of the product,the variety and quantity of accessories are consistent with the list of accessories in the manual.If there is any defect,please contact the supplier or manufacturer immediately.

2.2 Operating steps

- ①The power plug is plugged into the power socket.



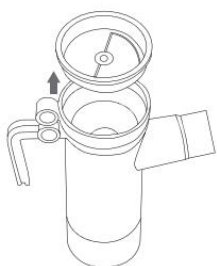
② Open the protection cover.



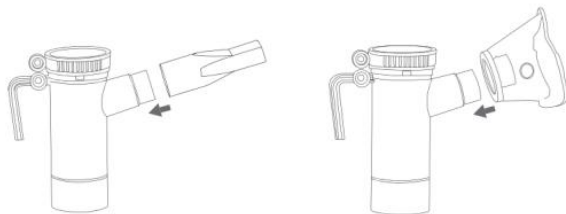
③ Take out the atomizing cup and connect it to the air pipe. Before the use, please clean and disinfect the Nebulizer.

④ Fill the cup with appropriate liquid medicine, Close the lid of the atomizing cup and connect the mouthpiece or mask.

Pour an appropriate amount of liquid medicine into the nebulizing cup, and do not exceed the maximum mark.



⑤ Close the lid of the atomizing cup and connect the mouthpiece or mask.

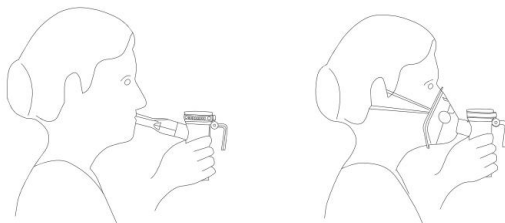


⑥ Connect the catheter to the device.



⑦ When ready, Press the [ON/OFF] button.

⑧ Hold the atomizing component with hand and perform atomizing treatment.



⑨ After the device usually works, use the connecting pipe to connect the air outlet of the device to the atomizing cup.

 Warning:

- Make sure that the connecting tube is correctly installed between the main unit and the atomizing cup without any looseness.
- The scale on the atomizing cup is only used as a reference target. When measuring the liquid medicine, use a syringe or a meter with higher accuracy.
- After pouring the liquid medicine into the atomizing cup, place the atomizing cup properly to prevent the liquid from flowing out when the atomizing cup is tipped over.
- It is forbidden to use suspended or high-concentration liquid medicine. Please follow the doctor's advice for the type of atomized liquid medicine.

 Attention

- Ensure that the power plug must be fully inserted into the power outlet during use. Do not plug or unplug the power plug with wet hands.
- During the atomization process, the mouthpiece should be included in the mouth cavity, and the lips should be closed slightly.
- Do not tilt the Nebulizer cup assembly at an angle exceeding 45 degrees. Otherwise may cause the medicine to flow into the mouth or may not be effectively sprayed.
- During use, if the user feels any abnormality, please stop using it immediately.
- During the atomization process, please check whether there is still clearly visible mist discharged from the atomization cup. Once the irregular spray appears, stop the treatment immediately.

 Note

- After using the mask, be sure to wipe the face clean, and do not leave any liquid on the skin.
- The amount of mist can be adjusted by rotating the atomizing cup lid.

3 Symbols and Definitions

	Type BF applied part		Serial number
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	Date of manufacture		Manufacturer
	Model number		Use-by date
	Caution		Batch code
	Humidity limitation		Temperature limit
	Keep dry		Keep away from sunlight
	Consult instructions for use		Refer to instruction manual
IP22	Protected against solid foreign objects greater than 12.5mm in diameter and dripping water when tilted up to 15°		To protect the environment, dispose of empty batteries at appropriate collection sites according to national or local regulations.

4 Cleaning and Disinfection

4.1 Cleaning

Cleaning the parts after each use can prevent the remaining liquid in the atomizing cup from being unable to spray effectively and to avoid infection.

First, disassemble the atomization device, empty the residual liquid in the atomization cup, and perform related cleaning or disinfection.

1) Atomization components, masks, mouthpieces

Rinse with pure water or immerse in warm water for 15 minutes. To clean more sanitarly, add the appropriate amount of vinegar to the water, and then put it in a clean place to dry naturally.

2) The device, connection tube

Please moisten the cloth with water and wipe, and then let it dry naturally.

Method for removing moisture in connecting pipe:

- 1.) Make sure that the connecting pipe is connected to the device.
- 2.) Remove the connecting tube from the spray cup assembly.
- 3.) After turning on the power of the device machine, use fingers to repeatedly

open and close the connection pipe port to eliminate water droplets.

 NOTE:

- After use,be sure to discard the remaining liquid medicine and use new liquid medicine every time.
- After cleaning,wait for all accessories to dry before storing it in a clean place.
- Do not store the connection tube with moisture or chemical liquid remaining inside.

4.2 Disinfection

Be sure to disinfect the parts after each use.If the components are heavily polluted, please replace them with new components in time.There are two ways to disinfect,as follows:

- 1)When using commercially available disinfectants,please follow the precautions described in the instructions for various disinfectants.
- 2)Immerse the parts in the disinfectant and ensure the time specified in the disinfectant manual.
- 3)Rinse with clean,warm water,then place in a clean place to dry naturally, and store in a clean place.

 NOTE:

- After taking the Nebulizer out of the disinfectant,wash it with clean water according to the instructions of the disinfectant.Avoid disinfectant residue;inhalation of disinfectant may cause worsening of symptoms.
- If using colored disinfectants (such as chlorhexidine,etc.),various parts may have color changes after a few uses,which is not a physical performance problem.If the color changes are becoming darker,please replace it with a new part.
- Add enough water to the container,place the parts that can be boiled and sterilized in the water,heat,and boil for 15 to 20 minutes.After boiling,carefully remove the parts,wipe off excess water,and naturally dry in a clean place.

 NOTE:

- Do not clean the attachments such as connecting pipe,face mask,filter

element, and filter cover in the boiling water or hot water to prevent deformation.

- During the disinfection process, please confirm that the medicine in the nebulizing cup has been emptied.
- After boiling and sterilization, please be careful not to boil without water.

Please select one disinfection method from the table below:

○=Appropriate ×=Not appropriate

Accessory Name		Material	Sterilized by Boiling	Disinfection ethyl
Mouthpiece		Polypropylene Resin (PP)	○	○
Face Mask		Polyurethane Resin (PVC)	×	○
Mist Cup		Polypropylene Resin (PP)	○	○
Connecting Pipe		Polyurethane Resin (PVC)	×	×
Filter Element		PE	×	×

5 Replacement of Filter Element and Fuse

5.1 Replacement of Filter Element

In general, the filter element shall replace every three months. The discolored filter element may affect the atomization effect, shall be replaced immediately.

NOTE:

- Before use, make sure that the filter element and filter cover are installed correctly.
- Before installation, please confirm that the filter element is clean and not dusty.
- To prevent clogging, please clean the filter cover regularly with running water and other methods (do not boil) and then dry it properly and install it correctly.
- Please use the filter element of this product, and do not use this product

without the filter element.

5.2 Fuse Replacement

Please contact with the supplier for replacement if the fuse of the device has been damaged. (fuse is inserted in the device)

6 Maintenance

- Do not use and store in a state where the connecting pipe is bent.
- Do not drop the device, Nebulizer, or power cord or receive a strong impact.
- Do not apply external pressure to the Nebulizer to avoid deformation.
- Do not poke the Nebulizer with needles or sharp objects.
- Do not use it continuously.
- Do not disassemble the main unit, power cord, or try to repair the device.
- Do not use and store in wet places such as bathrooms.
- Do not place the main unit or other parts at extremely high temperatures, low temperatures, or direct sunlight.
- Do not use volatile oil, thinner, etc. to wipe the main unit and connecting pipes.
- Keep out of the reach of children as it contains small parts that may be swallowed.
- Please unplug the power cord before maintenance.

7 After-sales and Others

This manual is also a technical manual.

7.1 After-Sales Service

1). This product has quality problems caused by non-human factors within one week from the date of sale. Our company is responsible for the return, replacement, and repair; Under regular use and storage, if the product has quality problems within one year from the date of sale, the company will provide free maintenance; If the product has a quality problem after one year from the date of purchase, the user can go to the company's after-sales service department, office or distributor according to the invoice and warranty card. The company provides parts for repair and reasonable charges. If the user is unable to provide an invoice, the company ID or factory date will be extended by one month.

2).The warranty doesnot cover the following conditions:

- ①Vulnerable and consumable items:filter element and Nebulizer;
- ②Failure caused by unauthorized disassembly,repair and modification of the product;
- ③Failure caused by accidental drop during use and handling;
- ④Damage caused by improper use;
- ⑤Liquids such as water and medicine entering the device due to users' action;
- ⑥Failure caused by not following the correct method of operation in the manual;
- ⑦Damage caused by unforeseen natural disasters (such as floods,earthquakes,fires,etc.)

3).If customers need to purchase accessories or consumable parts of this product,please purchase them in our after-sales service department and replace them under the guidance of professionals approved by the manufacturer.The company will not be responsible for the consequences of customers'own purchases and illegal operations.

4).Upon request,the company can provide circuit diagrams and necessary information for repairs.If you have any problems with the maintenance of electrical circuits,you can contact the manufacturer

8 Components list

Name	Quantity
Host	1
Atomization device	1
User manual	1

