

Air Compressed Nebulizer

Product Usage



CN2

110V

1.0 Product Features

1. Overview

The CN2 Air compressed Nebulizer is used for the inhalation treatment of medicinal liquid atomization.

2. Product Characteristics and Indicators

1. Power supply: Input: AC 110V, 60Hz
2. Maximum atomization rate: $\geq 0.2\text{mL} / \text{min}$
3. The residual amount of liquid medicine: $\leq 1.0\text{mL}$
4. Mist particle size (MMD): $4\mu\text{m} \pm 25\%$
5. Output pressure: 60-130kPa.
6. Fuse tube T2A / 250V $\Phi 2 \times 10$
7. Free flow of compression pump: $\geq 4.5\text{L} / \text{min}$
8. Noise: $\leq 60\text{dB (A)}$
9. Net weight: about 1250g (device only)
10. Input power: $\leq 100\text{W}$
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: IPX0
13. Size: length 15 x width 15 x height 9cm
14. Contraindications: None
15. Anti-shock type classification: Class II equipment
16. Classification of degree of protection against electric shock: Type B application
17. Working system: intermittent operation - open for 20 minutes and stop for 40 minutes
18. Service life: 3 years.

19. Normal working conditions: Environmental range: $+5^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Relative humidity range: 30% ~ 80%

Atmospheric pressure range: 86KPa ~ 106KPa

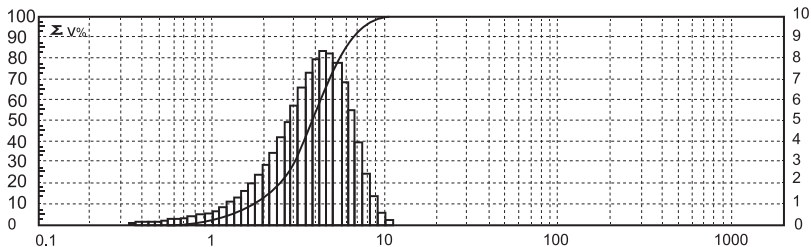
20.Storage and transportation environment conditions:

Environmental range: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$

Relative humidity range: 10% ~ 93%

Atmospheric pressure range: 70KPa ~ 106KPa

21. Particle equivalent volume particle size distribution curve (Ambient temperature is $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$, humidity 50%RH ~ 75%RH):



NOTE:

⚠ When the storage and transportation temperature is lower than 5°C , 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.

3.Structural Characteristics and Working Principle

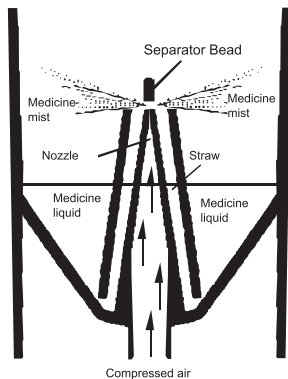
1.Compressed Air Nebulizer consists of a compression pump, casing, atomization device,

and power plug. The Nebulizer includes an atomizing cup, a connecting tube, a mouthpiece, and a face mask.

2. A DC compression pump is used as a source of air pressure.

3. Novel appearance design, easy to use, compact, easy to store, and carry.

4. 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.



2.0 Product Features

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.

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.Schematic Diagram of the Structure and Name of Each Part of the Whole Machine

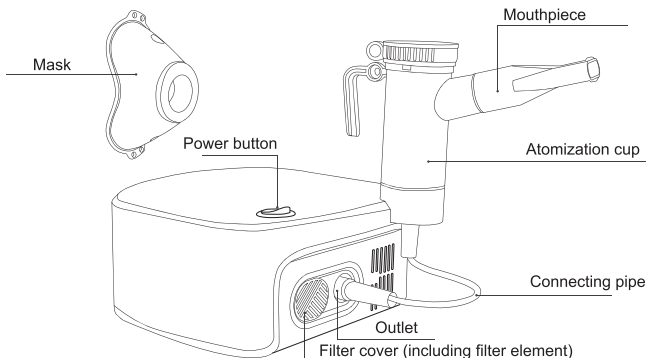
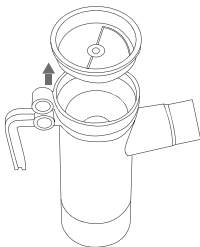


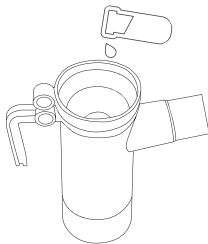
Figure 3: Schematic Diagram of Components

3.0 Open the lid of the atomizing cup.

1. Open the lid of the atomizing cup



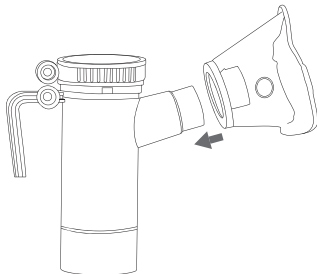
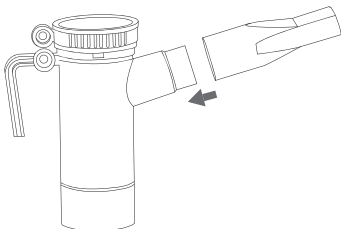
2. Fill the nebulizer cup with the prescribed amount of liquid medicine



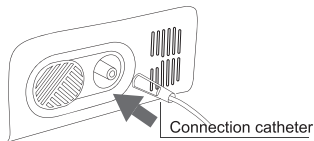
NOTE:

- ⚠ Before the first use, please clean and disinfect the Nebulizer.
- ⚠ Pour an appropriate amount of liquid medicine into the nebulizing cup, and do not exceed the maximum mark.
- ⚠ 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.

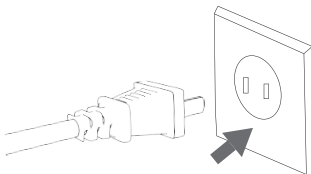
3. Close the lid of the atomizing cup and connect the mouthpiece or mask.



4. Connect the catheter to the device



5. The power plug is plugged into the power socket

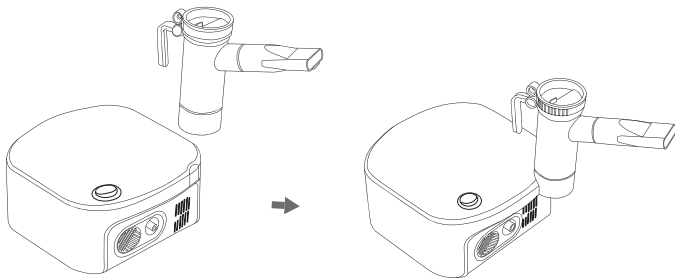


NOTE:

- ⚠ 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.

Use of brackets

Use the bracket when temporarily placing the Nebulizer cup.



The device is ready to use

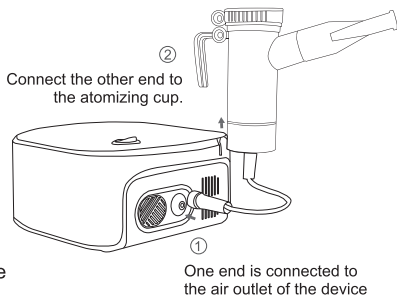
The Nebulizer is not attached to this machine. Do not use other parts except the accessories and separately sold products of this product.

4.0 Operation Steps

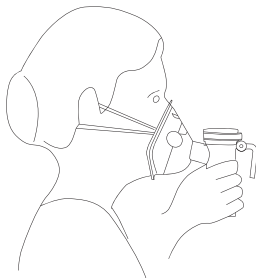
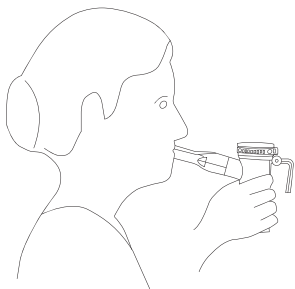
1. Press the [Start / Stop] button
2. After the device usually works, use the connecting pipe to connect the air outlet of the device to the atomizing cup.

NOTE:

⚠ Make sure that the connecting tube is correctly installed between the main unit and the atomizing cup without any looseness.

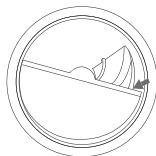


4. Hold the atomizing component with hand and perform atomizing treatment.

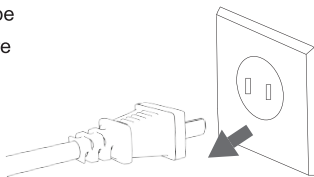


NOTE:

- ⚠ 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.
- ⚠ 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.



5. Press the [Start / Stop] button after completing the treatment
6. Unplug the atomizing cup from the connecting tube
7. Confirm whether there are water drops or moisture in the connecting tube
8. Remove the connecting tube
9. Unplug the plug from the power socket



5.0 Maintenance

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:

- ① After use, be sure to discard the remaining liquid medicine and use new liquid medicine every time.
- ① 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

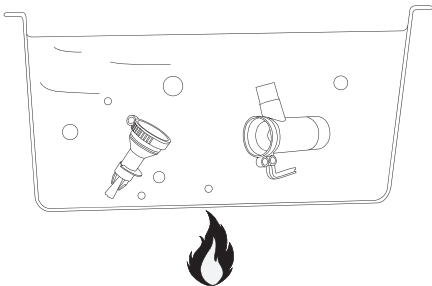
2.Disinfection

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		Materia	Sterilized by Boiling	Sterilized by Boiling
Mouthpiece		Polypropylene Resin (PP)	○	○
Face Mask		Polyurethane Resin (PVC)	✕	○
Mist Cup		Polypropylene Resin (PP)	○	○
Connecting Pipe		Polyurethane Resin (PVC)	✕	✕
Filter Element		PE	✕	✕

6.0 Replacement of Filter Element and Fuse

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.

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)

7.0 Maintenance

- ⚠ Do not use and store in a state where the connecting pipe is bent.
- ⚠ Do not drop the device, Nebulizer, or power adapter 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 adapter, 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 line before maintenance.

8.0 After-sales and Others

This manual is also a technical manual.

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

9.0 Packing List

Host: 1set

Atomization accessories: 1

Fuse: 1

Filter element: 5

Manual: 1

Certificate of Conformity: 1