INSTRUCTION MANUAL

Compressor Nebulizer

Model WNE208

Attention:
No SMOKE will come out if the liquid level exceeds the maximum scale of 8ML of the orange medicine cup

READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE USE

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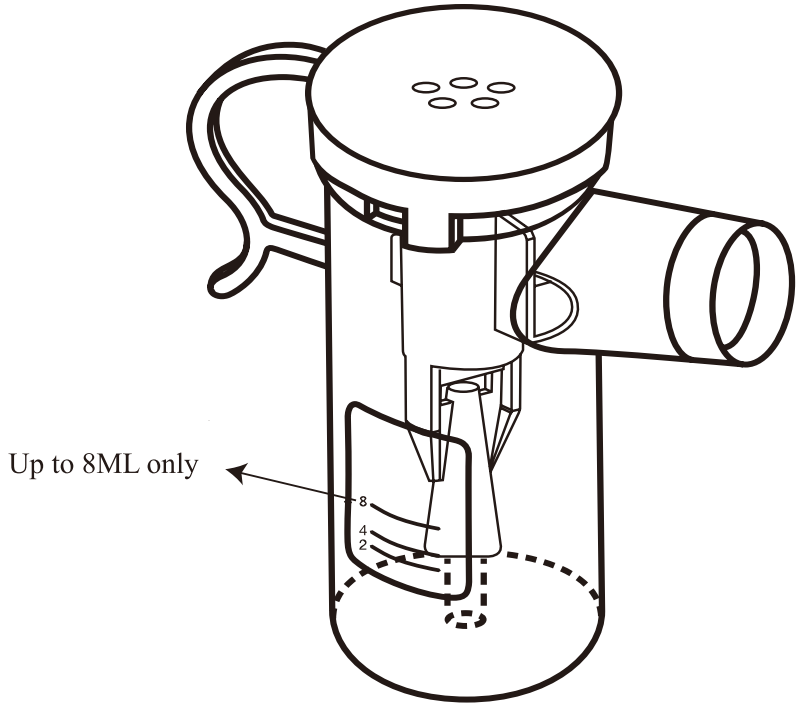
Issue Version: V1.2

No smoke coming out?

1. Make sure the liquid level does not exceed the maximum scale of 8ML of the orange medicine cup!



2. Make sure that the orange medicine cup is cleaned after each use, and not blocked by liquid particles. For cleaning method, please refer to Chapter 8, Pages 11.

1. GETTING TO KNOW YOUR INSTRUMENT

Thank you for choosing one of our products. Our name stands for high-quality and thoroughly tested products for applications in the areas of atomization therapy and body temperature. Please read these instructions carefully and keep them well for later use. Make sure they are accessible and readable to other users.

1.1 What is the Nebulizer?

Thank you for purchasing the compressor nebulizer from Aidisy as a professional company for nebulizers. The compressor nebulizer is a kind of therapy device to deliver compressed air to aerosolized drugs based on Venturi principle. Compressed air is driven through a converging nozzle where it is accelerated to a high velocity stream, creating a vacuum (Venturi effect). The vacuum sucks the liquid from a reservoir through a cylindrical channel and delivers it into the emerging airstream formed by the nozzle, thereby mixing it with an impact on a rigid surface. This process uses energy from the airstream to convert liquid into small droplets called aerosol. When reaching the user, aerosol is suitably refined to enter the lungs effectively.

According to medical research, when the size of the atomized particle of a drug is within 1~5μm, the drug can best reach the peripheral bronchioles and lung periphery. Besides, the absorption rate in the gastric, nasal and pharyngeal areas is lower than that in peripheral bronchioles and lung. Therefore, the drug should be oral drug. (Copy from A GUIDE TO AEROSOL DELIVERY DEVICES FOR RESPIRATORY THERAPISTS– 3rd Edition)

1.2 How the Nebulizer kit works

The medication that is pumped up through the medication channel is mixed with compressed air generated by a compressor pump. The compressed air mixed with medication is then turned into fine particles and sprayed when it is in contact with the baffle.

2. INTENDED TO USE

The compressor nebulizer is intended to aerosolize physician-prescribed solutions for inhalation that are approved for nebulization, which is designed for adult and pediatric patients suitable for the aerosol medication. In addition, the compressor nebulizer is not used for life support nor does it provide any patient monitoring capabilities.

2.1 Area of application

The device is suitable for inhalation at home. Medicines should only be inhaled following the doctor’s advice. Besides, inhalation should be

performed in a calm and relaxed environment, which should be slow and deep to enable the medicine to reach the small bronchi deep in the lungs. And exhalation should be normal. Once prepared, the nebulizer is available for reuse, but accessories are not reusable and should be disposed. The preparation includes the replacement of all accessory parts, such as nebulizer kit and air filter. Use the wet cloth to wipe the surfaces of the nebulizer.

2.2 Intended user

2.2.1 Caregiver or patient under the guidance of qualified medical experts for home treatment.

2.2.2 The user should understand the general operation of the nebulizer and the content of instruction manual.

2.3 Intended patients and environment

This device is only for the use by awake patients in a home environment. It can be used for children, adult and elderly patients.

2.4 Contraindications

This device is only for the use by awake patients in a home environment, which must not be used by pregnant patients.

2.5 Side effects

2.5.1 Some sensitive patients may feel chest tightness and suffer anoxia during aerosol treating.

2.5.2 Respiratory or digestive tract infections.

2.5.3 Hypoxia and discomfort

2.5.4 Cough

2.5.5 Circumoral paleness

2.5.6 Tachycardia

3. SAFETY INFORMATION AND WARNING

3.1Warning

3.1.1 For type, dose, and regime of medication, please follow the advice of your doctor or respiratory therapist.

Note: if other drugs are used for atomization without authorization, life may be seriously endangered!

3.1.2 Before use, ensure that there is no visible damage to the unit or nebulizer kits. If there is any doubt, do not use the unit, please contact your dealer or visit the customer service address provided.

3.1.3 The utilization of the unit cannot substitute the consultation or treatment by a physician. Whenever you feel pain or illness, contact your physician first.

3.1.4 If you have health concerns of any kind, please contact your physician.

3.1.5 When using the atomizer, always follow the basic hygiene procedures.

3.1.6 Always follow your doctor's instructions regarding the type of medicine to be used and the dose, frequency, and duration of inhalation.

3.1.7 Do not use the device together with ventilation systems.

3.1.8 Only use medicines prescribed or recommended by your doctor or pharmacist.

3.1.9 If the unit does not function correctly, or if you feel uncomfortable or pain, stop using the unit immediately.

3.1.10 During use, keep the unit away from the eyes, because some atomized drugs may cause damage to the eyes.

3.1.11 Do not operate the device in the presence of flammable gases or at high oxygen concentration.

3.1.12 This device is not intended to be used by the persons with restricted physical, sensory (e.g. insensitivity to pain) or mental abilities or persons lacking in the required experience or knowledge for safe operation of the device, unless they are supervised or instructed by a person responsible for their safety.

3.1.13 Store the device and its accessories out of the reach of children to prevent the risk of accidents and choking by swallowing small parts or packaging material!

3.1.14 Do not use attachments that are not recommended by the manufacturer.

3.1.15 Connect the unit only to the correct voltage marked on the name plate.

3.1.16 Do not dip the unit into water, do not use it in wet rooms, and do not allow any liquid to penetrate the unit.

3.1.17 Protect the unit from strong impacts.

3.1.18 Never touch the power cord with wet hands, this may cause an electric shock.

3.1.19 Do not pull the plug from the socket by the cord.

3.1.20 Do not pinch or bend the power cord, pull it over sharp objects, or allow it to hang freely, and keep it away from sources of heat.

3.1.21 If the power cord or housing is damaged, contact our customer service department or your local dealer.

3.1.22 Opening the unit may result in electric shock. Disconnect the power supply by removing the plug from the socket.

3.1.23 Do not use the unit if it has been dropped on the floor, exposed to extreme humidity or otherwise damaged. If anything is not clear, please contact our customer service department or your local dealer.

--The device is applicable and should not be used in the following situations:

--Patients with severe hypoxia or respiratory failure.

--It is forbidden to be used in the place with flammable gas or oxygen.

-- It is not used for life support.

--When using the unit, children or disabled people should be supervised by adult.

3.1.24 It is expected to be used only for conscious patients.

--Children under age 5 should use the mask instead of the mouthpiece.

--The nebulizer must be used with suitable nebulizers and appropriate accessories only. The use of other nebulizers and accessories may impair therapeutic efficiency and damage the device.

3.2 Important issues

3.2.1 Power cuts, sudden faults or other unfavorable conditions may make the unit unusable. It is therefore recommended to keep a spare device or replacement medicine (as approved by the doctor).

3.2.2 If adapters or extensions are required, they must comply with the applicable safety regulations. The electrical capacity and the maximum capacity of the adapter must not be exceeded.

3.2.3 The unit and the power cord must be stored away from sources of heat.

3.2.4 Do not use the unit in a room where a spray has previously been used. If it has been sprayed, ventilate the room before commencing treatment.

3.2.5 Do not allow any objects to enter or obstruct the ventilation openings.

3.2.6 Do not use the device if you hear an unusual noise.

3.2.7 For hygiene reasons, each user must use his own nebulizer kit. Nebulizer kits are for private use only.

3.2.8 Always disconnect the unit from the outlet after use.

3.2.9 Please use the nebulizer accessories approved by CE certificate. Please contact the manufacturer or agent if you need to replace the nebulizer kits. Do not use any other type of nebulizer kits.

3.2.10 Store the device in a location without environmental influences. The device must be stored in the specified ambient conditions.

3.2.11 Fuse

--The device contains an overload protection fuse which must only be changed by authorized specialist.

--The device also features a thermal fuse that switches off the nebulizer in the event of overheating. Should this occur, proceed as follows:

■Switch off the device

■Disconnect from the outlet

■Then switch on the device again, and pay attention to whether it makers any abnormal noises. If not, you can use the device again. Otherwise, contact your customer service team.

3.3 Important issues

3.3.1 Only use the unit for humans and its intended purpose (aerosol inhalation) in the manner described in these instructions.

3.3.2 Any improper use can be dangerous!

3.3.2.1 Under non-emergency situations, first aid takes priority.

3.3.2.2 Apart from the medication, use only distilled water or a saline solution in the unit. Other liquids may cause defects to the nebulizer or atomizer.

3.3.2.3 This unit is not intended for commercial or clinical use, but individual, private household use only.

3.3.3 Before using the unit for the first time:

3.3.3.1 Before you use the unit for the first time, remove all packaging materials.

3.3.3.2 Protect the unit against dust, dirt and moisture. Never cover the unit during operation.

3.3.3.3 Do not use the unit in highly dusty environments.

3.3.3.4 Switch the unit off immediately at the time of defect or malfunctioning.

3.3.4 Repairs note

3.3.4.1 Never open or try to repair the unit yourself, as proper function will be no longer guaranteed. Failure to observe this regulation shall void the warranty.

3.3.4.2 To repair the unit, please contact customer service or an authorized dealer.

3.3.5 Durable period

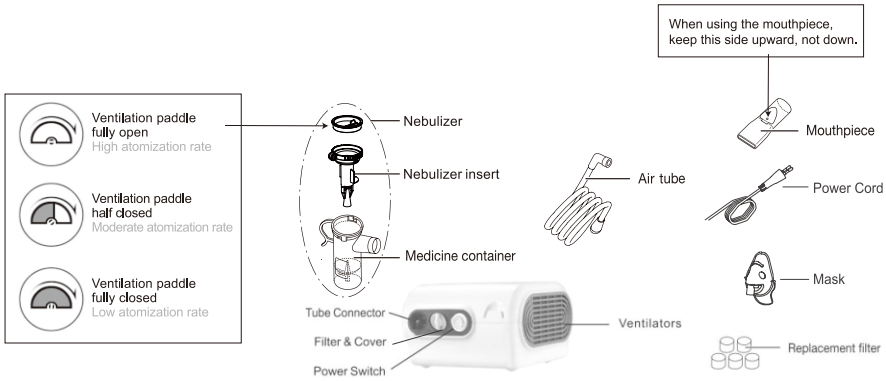
Durable periods are as follows; durable period varies depending on the operation environment.

Part name	Durable period
Compressor (Main unit)	3 years
Air filter	30 days

3.3.6 Precaution for use

Warnings and caution specified in the instruction manual should be followed.

4. PRODUCT IDENTIFICATION



Ventilation paddle fully open
High atomization rate
Ventilation paddle half closed
Moderate atomization rate
Ventilation paddle fully closed
Low atomization rate
When using the mouthpiece, keep this side upward instead of downward.

Free control of atomization rate

By adjusting the ventilation volume, different mist volumes can be selected to generate different atomization speed to suit the population needs.

NOTE: Always use the original nebulizer kits provided by manufacturer. Changing or replacing the nebulizer kits may reduce the safety and effectiveness of the device.

5. INITIAL USE

5.1 Set up

Remove the packaging from the unit, and then place the unit on a flat surface. Ensure that the ventilation slits are free. Fold and open the lid to access the nebulizer kit.

5.2 Before using the unit for the first time

Note

- The nebulizer and kits must be cleaned and disinfected before being used for the first time. For more information, please refer to "Cleaning and disinfection" in Section 8.
- Attach the air tube at the bottom of the nebulizer cup.

■ Connect the other end of the tube to the tube connector of the product by turning it slightly.

5.3 Power connection

Connect the unit only to the voltage marked on the name plate.

5.3.1 Insert the power plug into a power outlet.

5.3.2 Push the plug tightly into the power outlet.

Note

■ Ensure that there is a power outlet near the unit.

■ Lay the power cable in such a way that no one can trip over it.

■After use, switch off the device first and then remove the plug from the outlet.

6. OPERATION

Caution ⚠

■ For hygiene reasons, the used nebulizer kit should be replaced with a new kit.

■ If different medicines are to be inhaled in succession during therapeutic use, use a new nebulizer kit whenever switching to a different medicine.

■ The device must be operated with the nebulizer kit approved by CE certificate.

■ Follow the instructions for changing the filter, as specified in the instructions.

■ Before each use, check and make sure that the tube connector of the product and the nebulizer cup are tight.

■ Before use, check and make sure that the device is functioning correctly. Specifically, switch on the device (with the connected nebulizer cup, but without any medication) for a short time. If the nebulizer cup expels air, it indicates that the device is functioning correctly.

6.1 Assembling the nebulizer cup

Insert the nebulizer into the medication container, and turn clockwise.

6.2 Fill the nebulizer cup

6.2.1 Open the lid of the nebulizer cup.

6.2.2 Fill it with isotonic saline solution, or pour the medication directly into the nebulizer cup. Do not overfill! The recommended maximum filling level is 8mL.

6.2.3 Use medication on the advice of a physician only, and check the appropriate inhalation duration and quantity for your own needs.

6.2.4 If the required volume of medication is less than 2mL, dilute

this volume to at least 4mL using an isotonic saline solution. Viscous medicines should also be diluted. Always follow the instructions of your doctor.

6.3 Close the nebulizer cup

Close the lid of the nebulizer cup, twist the upper section clockwise against the medicine container. Ensure the parts are connected correctly.

6.4 Connect the nebulizer kit

Note

The most effective method of nebulization is to use the mouthpiece. Nebulization using a mask is only recommended if it is not possible to use a mouthpiece (e.g. for children who are not yet able to inhale medication using a mouthpiece).

- Connect the required nebulizer kit (mouthpiece, adult mask or child mask) to the nebulizer cup).
- Before commencing treatment, pull the nebulizer cup upwards out of its holder.
- Start the nebulizer using the ON/OFF switch.
- A flow of spray from the nebulizer cup indicates that the device is functioning properly.

6.5 Treatment

Inhale the nebulized medicine deeply.

Note

During treatment, the nebulizer cup should be held straight (vertical), otherwise it will not work, and the correct function cannot be guaranteed.

Important

- All essential oils, cough medicines, solutions designed for gargling, and drops for application to the skin or for use in steam baths are unsuitable for inhalation using a nebulizer. These substances are often highly viscous, and can impair the correct function of the device, thereby affecting the effectiveness of its application in the long term.
- In the case of oversensitivity of the bronchial system, medicines containing essential oils can sometimes cause acute bronchospasm (a sudden, cramp-like tightening of the bronchi accompanied by breathlessness). Therefore, always ask your doctor or pharmacist for advice!

6.6 End of inhalation

If the spray is only output sporadically or if the noise changes during inhalation, you can end the treatment.

- After treatment, tum off the device using the switch, and disconnect it

from the power cord

■ After treatment, please remove the air tube from the device.

■ After treatment, please clean the device. For more information, please refer to "Cleaning" in Section 8.

7. CHANGE THE FILTER

Check the filter regularly (e.g. every ten uses). Replace the used filter if it is very dirty or blocked, but not more than 30 days. If the filter is wet, it must also be replaced with a new one.

Caution ⚠

☐ Do not try to clean and re-use the used filter!

☐ Only use original filters supplied by the manufacturer. Otherwise, your nebulizer may be damaged, or effective therapy can no longer be guaranteed.

To replace the filter, proceed as follows:

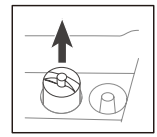
Caution ⚠

■First switch off the unit, and unplug it.

■Allow the unit to cool down.

Note ⓘ

If the filter remains in the unit when the cap is removed, remove the filter from the unit using tweezers or similar tools.



■Remove filter cap from the top.

■Replace the filter cap containing the new filter.

■Check that the filter cap is firmly in place.

8. CLEANING

Warning ⚠

Read the following hygiene instructions to avoid any health risks.

Notes: ⓘ

■For additional requirements regarding the necessary hygienic preparations (hand washing, handling of medicines or inhalation solutions) in high-risk groups (e.g. cystic fibrosis patients), contact your doctor.

■Ensure that the device is properly dried after cleaning. Residual moisture or water droplets can result in an increased risk of bacterial growth.

Important issues ⓘ

■For the cleaning & disinfection of the nebulizer's kits (including nebulizer cup, mouthpiece), use distilled water.

■After each use of the nebulizer kits (child mask, adult mask, air tube,

mouthpiece, filter, nose piece, air tube)

- Clean the nebulizer's kits with the distilled water.
- Completely immerse the nebulizer's kits into approximately 75% medicinal alcohol.
- Soak for approximately 30 minutes.
- Wash and rinse the nebulizer's kits with warm distilled water at about 50°C.
- Shake out water, and dry them with a clean, soft towel or leave them for air-dry in a clean place.
- Make sure that the nebulizer's kits and other cleaned parts are completely dry, then put all these parts in a dry and sealed container.

Important issues

- Ensure that no water penetrates into the unit!
- Do not put the device or kits in a dishwasher.
- Do not touch the unit with wet hands while it is plugged in the power outlet; do not allow any water to be sprayed onto the unit. The unit must be operated only when it is completely dry.
- Do not spray any liquids into the ventilation slots. Any liquid that penetrates into the unit can damage the electrical parts or other components of the device, and impair the function of the device.

Condensation, care of the air tube

Depending on the environmental conditions, condensation may be collected in the tube. To prevent bacterial growth and ensure effective therapeutic use, if condensation is observed in the tube, please replace the tube with a new one approved by CE certificate.

Note

Please ensure that the parts are completely dried after cleaning, otherwise the risk of bacterial growth will be increased.

Drying

Place the individual components on a dry, clean and absorbent surface, and allow them to dry completely (for at least 4 hours).

Warehousing

- Do not store the device in a damp atmosphere (e.g. in the bathroom) or transport it together with damp objects.
- Store and transport the device away from direct sunlight.
- Store the device in a dry place, if possible, in its original packaging.

9. DISPOSAL

9.1 For environmental protection, do not dispose of the device as household waste.

9.2 Please dispose of the device in accordance with EU directive 2002/96/EC – WEEE (Waste Electrical and Electronic Equipment).

9.3 If you have any question, please contact the local authorities responsible for waste disposal.

10. TROUBLESHOOTING

Problem/question	Possible Cause/ Remedy
The nebulizer produces little or no aerosol.	1 .Too much or too little medicine in the nebulizer cup. Minimum: 0.5Ml, Maximum: 8mL
	2.Check and ensure that the nozzles inside the nebulizer cup are not blocked. If necessary, clean the nozzle (e.g. by rinsing). Use the nebulizer cup again. CAUTION: Only poke through the fine holes from the underside of the nozzle.
	3 .The nebulizer cup is not held in an upright position.
	4.The medicine solution is unsuitable from nebulizing (e.g. too thick).The medicine solution should be specified by the doctor.
Output is too low	Tube kinked, filter blocked, too much inhalation solution.
Which medicines are suitable for inhalation?	Consult your doctor! Essentially all medicines that are suitable and approved for device-based inhalation can be inhaled.
Some inhalation solution remains in the nebulizer.	This is normal, and occurs for technical reasons. Stop inhalation if you hear a notable difference in the noise of the nebulizer.

What special steps should be taken for babies and children?	1.For babies, use the child mask. The mask should cover the mouth and nose to guarantee effective inhalation. 2.For babies, use the child mask. The mask should also cover the mouth and nose. Nebulizing is not appropriate for sleeping people because there is not enough medicine reaching the lungs. Note: Children and babied should only use the device under the help and supervision of an adult. Never leave a child alone with the nebulizer.
Inhalation with the mask takes longer time.	This is for technical reasons. Less medicine is inhaled per breath through the mask holes than using the mouthpiece. The aerosol is mixed with ambient air through the holes in the mask.
Does each person need their own nebulizer?	This is absolutely necessary for hygiene reasons.

11. TECHNICAL SPECIFICATIONS

Name:	Compressor nebulizer
Model No.:	WNE208
Power:	AC 120V 60Hz
Power Consumption:	1.3A
Nebulizer medication Capacity:	8ml
Particle Size:	Approx.(75.74 ± 0.02)% within 0.5 to 5um range
MMAD:	2.81 ± 0.14μm
Average Nebulization Rate:	≥0.2ml/min
Noise Level:	Below 65dBA (DIN EN 13544-1)
Compressor Pressure Range:	30 ～ 50 Psi / 206Kpa ～ 345Kpa

Operation Pressure Range:	9.5 ～ 20 Psi /65.5Kpa ～ 137Kpa
Liter Flow Range:	6 ～ 10 1pm
Operation Temperature Range:	10°C ～ 40°C (50°F ～ 104°F)
Operation Humidity Range:	10% ～ 90% RH
Storage Temperature Range:	-20°C ～ 70°C(-4°F ～ 158°F)
Storage Humidity Range:	10% ~ 95% RH
Atmospheric pressure	500 ～ 1060 hPa
Device life	For unit: 3 years (Follow the frequency of 3 times a day for 10 minutes per use, that is, 1,095 times a year, and the device can be used for 3 years)
Housing material	ABS
Dimension	145x145x85mm (Lx W x H)
Weight	1.2kg
Standard accessories	Nebulizer Cup, Air Tube, Adult Mask, Child Mask, Mouth Piece, Filters(5pcs)
Type of protection against electric shock	Class II
Degree of protection against electric shock	Type BF applied part

Particle size diagram

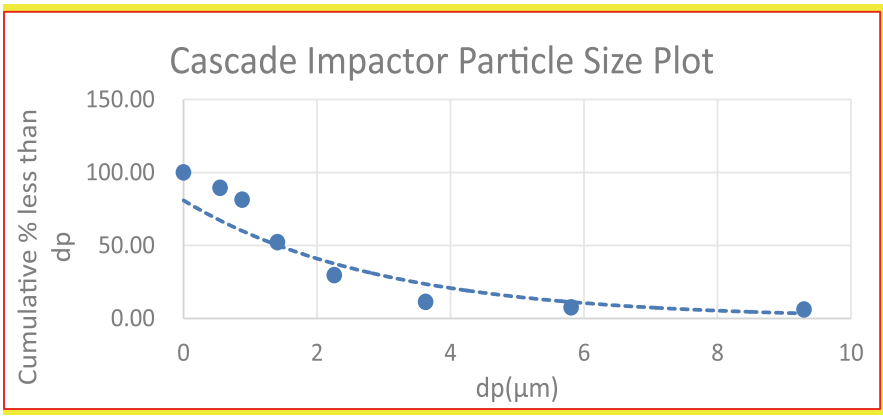


Fig. 1 The distribution of atomized particles (Albuterol sulfate)

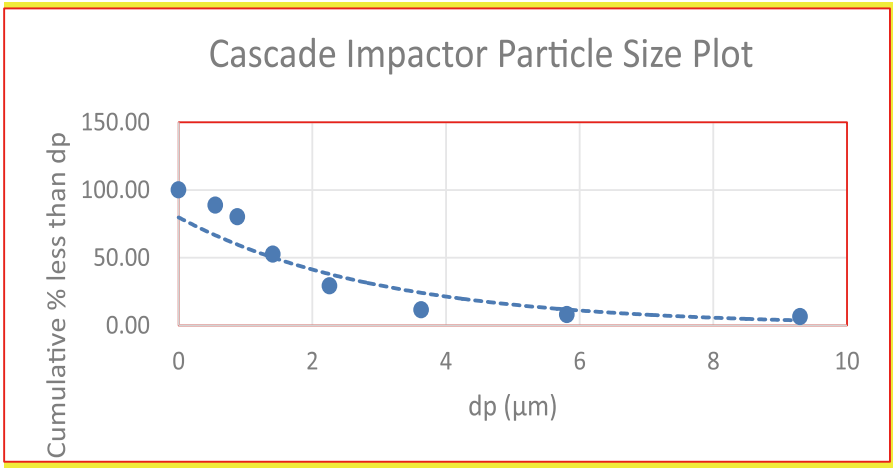


Fig.2 The distribution of atomized particles (Ipratropium bromide)

All measurements are obtained with a sodium chloride solution by using a laser diffraction method. This diagram may not be applicable for suspensions or highly viscous medicines. More information is available from the relevant medicine manufacturer.

Note

If the unit is used not according to the specification, proper function is no longer guaranteed! We reserve the right to make technical changes to improve and further develop the product. This device and its accessories comply with European standards and International standards EN/IEC 60601-1 and EN/IEC 60601-1-2, as well as EN 12544-1, and are subject to special safety measures in terms of electromagnetic tolerance. Please be noted that portable and mobile RF communication equipment can affect this unit. More details can be requested from the stated customer service address or found at the end of the instruction for use.

12. ELECTROMANGNETIC COMPATIBILITY

- The device complies with current specification with regard to electromagnetic compatibility, and is suitable for use in all premises, including those designated for private residential purposes. The radio frequency emissions of the device are extremely low and, in all probability, do not cause any interference with other devices in the proximity.
- It is recommended that you do not place the device on top of or close to other electrical devices, move the unit or connect it to a different socket.
- Radio equipment may affect the operation of this device.

13. NORMALIZED SYMBOLS

	Warning/ Danger: Improper use might cause serious injuries.		The notices should always be followed.
	Follow operating instructions		Applied part of type BF
	Manufacturer information: see the cover page		Type of protection against electric shock: Class II equipment
SN	Serial number	LOT	Batch code
IP21	IP code of the device: the grade of this device against ingress of solid foreign objects --≥12.5mm diameter (and against access to hazardous parts with finger); the grade of waterproof is protected against vertically falling water drops.		
CE 1639	Complies with the European Medical Device Directive (93/42/EEC and amended Directive 2007/47/EC. Notified Body is SGS Belgium NV.		
	Disposal in accordance with Directive 2002/96/EC (WEEE)		

14. WARRANTY

For warranty service or any other issue related to product, please contact our customer care.