

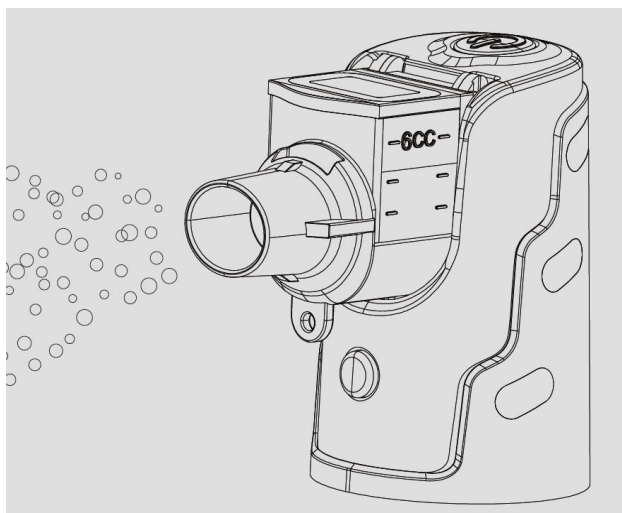
User Manual

Mesh Nebulizer

Model: JLN-MBxxx series

Revision: V1.5

Date: 19.08.26



Read the instructions carefully before using the device

Table of Contents

1. Introduction	3
2. Product identification	3
3. Important safeguards	4
3.1 Product cautions	4
3.2 Operating Cautions	5
3.3 Storage Cautions	6
3.4 Cleaning Cautions	6
4. Operating your mesh nebulizer	6
4.1 How to operate with batteries	6
4.2 How to operate with Adapter	8
5. Cleaning and Disinfection	10
5.1 Cleaning	10
5.2 Disinfection	11
5.3 Judgement of product reuse	11
6. Maintenance	12
6.1 Storage	12
6.2 Maintenance of the main unit	12
7. Troubleshooting	12
8. EMC information	13
9. Specifications	17
10. Particulate distribution data	18

1. Introduction

Thank you for purchasing the HOMED Mesh Nebulizer. It is a compact medical device designed to efficiently deliver physician prescribed medicine to the bronchial lung passages. With proper care and use, it will provide you with many years of reliable treatment.

Intended use/Indication for use

Intended purpose: The device is intended for use in the treatment of asthma, COPD and other respiratory ailments in which an aerosolized medicine is required during therapy. It is used for single one and can reusable. The device is for pediatric and adult population.

Indications for use: The device is intended to aerosolize medicine liquids for inhalation to treat patient with asthma, COPD and other respiratory ailments.

Intended user: Child and adult population

-The device should be used under the supervision of a licensed physician and/or a respiratory therapist.

-Use of drugs according to the prescription or the doctor's advice.

Intended patients: Adult & Child with asthma, COPD and other respiratory ailments.

Contraindication: none.

Side-effect: no known side-effect.

Clinical benefit: Medication aerosol particles are delivered into patient's respiratory tract by mesh nebulizer to achieve the purpose of treating the respiratory diseases.

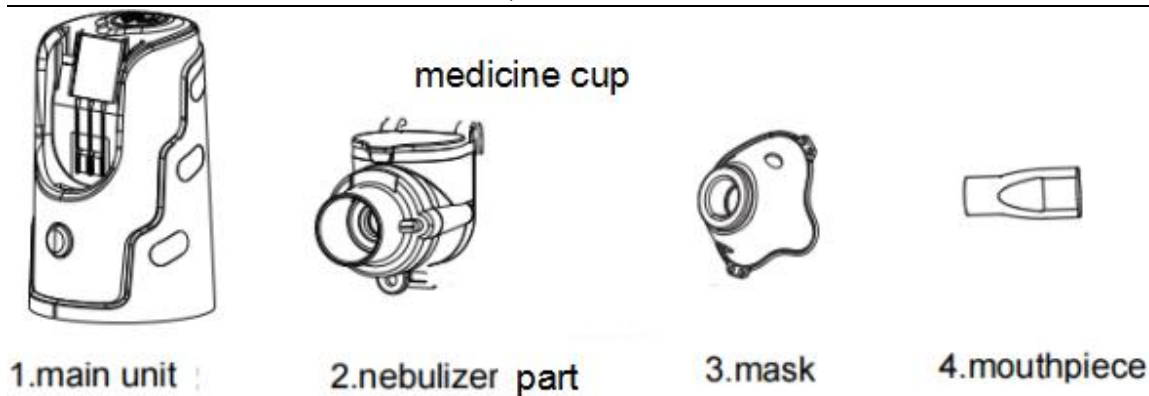
Note:

As the Mesh Nebulizers, models No.: JLN-MB002, JLN-MB003, JLN-MB004, JLN-MB008, JLN-MB009, JLN-MB010, JLN-MB011, JLN-MB012 have the same intended use, basic technique principle and basic technical specification, just different in color, so they can share the JLN-MB001's user manual.

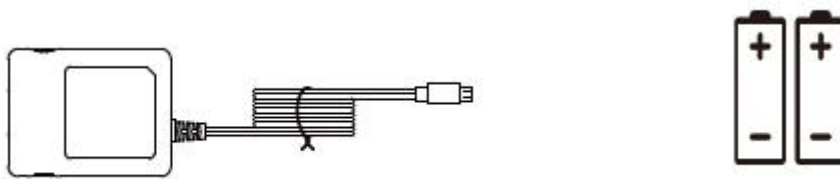
2. Product identification

Mesh Nebulize mainly consists of main unit, medicine cup, mask (big or small), mouthpiece, and AC adapter, batteries (optional).

As power, you can also choose to use two AA 1.5V batteries



Adapter DC5V/1A, 100-240V,50Hz, use micro-USB as connecting line.



5. Or batteries (two AA alkaline 1.5V*2), people can by them by himself on the market.

3. Important safeguards

Note: Read all instructions carefully before use.

The following basic precautions are needed when using an electrical product:

Caution: Failure to read and observe all precautions could result in personal injury or equipment damage.

3.1 Product cautions

This device, like any other device, may not work because of power failure, battery depletion or other failures. We recommend that you have spare batteries or other spare devices available.

When using electrical products, always follow the basic electrical safety precautions. Such as any electrical equipment has a special care for children.

1. To avoid electrical shock:
 - Keep the unit away from water.
 - Do not immerse the power cord or the unit in liquid.
 - Do not use while bathing.
 - Do not reach for a unit that has fallen into water – immediately unplug the unit.
2. Never operate the unit if it has any damaged parts (including power cord), if it has been dropped or submersed in water, discontinue use it immediately and promptly send it to the manufacturer or the agencies authorized by the manufacturer for examination and repair.

3. The unit should not be used where flammable gas, oxygen or aerosol spray products are being used.
4. Disconnect the unit from the electrical outlet before cleaning, filling and after each use.
5. Avoiding dropping the device otherwise it may not function normally.
6. The device can be used by many people, but the accessories are disposable and single-patient-use.
7. Do not attempt to disassemble the main unit, and do not repair or modify the device, these are the jobs that only the manufacturer or the agencies authorized by the manufacturer can do.
8. Follow local laws and recycling plans regarding disposal or recycling of components, batteries and packaging.
9. The power adapter cable may be necked. During charging, tighten the adapter cable or place it away from the human body.
10. Do not use other accessories unless recommended by manufacturer. All accessories meet the requirements of ISO10993.
11. Not to put the device on the place where it is difficult to power off.

3.2 Operating Cautions

1. Connect this product to an appropriate voltage outlet for your model.
2. Do not run this product unattended.
3. Never operate the device if it has a damaged part, or dropped on the floor or into water, or else it will not work properly, discontinue use it immediately and return it to the manufacturer or the agencies authorized by the manufacturer for examination and repair.
4. Always unplug the product immediately after use.
5. The children should use the device under the supervision by adult.
6. Do not drop any liquid on the main device or adapter, if the liquid splashes on it, please wipe it off immediately.
7. Non oily drugs that are soluble in water should be used.
8. Do not use the device when it is closed to the inflammable and explosive materials.
9. Do not use a cellular phone near the device. It may result in an operational failure.
10. Do not use extension cords. Plug the power cord directly into the electrical outlet.
11. For type, dose, and regime of medicine follow the instructions of your licensed physician and/or respiratory therapist.
12. Do not add more medicine exceeding the maximum line of volume limit on the medicine cup.
13. Do not plug in or unplug the Adapter from the electrical outlet with wet hands.
14. Using a solution, suspension, or emulsion different from that recommended by the manufacturer, in particular, a suspension and/or high-viscosity solution, can alter the particle size distribution curve, the mass median aerodynamic

diameter (MMAD), aerosol output, and/or aerosol output rate, which can then be different from those disclosed by the manufacturer.

15. The mesh nebulizer and the accessories are designed for single-patient reuse, do not reuse them among different people to avoid cross-contamination.
16. The mesh nebulizer is not suitable for use in an aesthetic breathing system or a ventilator breathing system.
17. Patients with known allergies to PVC or silicone should exercise caution and consult a physician before use.
18. Electrode aging may cause poor contact between the host and the cup, thereby affecting the normal use of the product. Please avoid using this product in high temperature and high humidity environments, or storing it in places outside the specified environmental conditions mentioned in the user manual.
19. Any serious incident that has occurred in relation to the Mesh Nebulizer should be report to the manufacturer (HOMED) and the authority having jurisdiction in your location.

3.3 Storage Cautions

1. Keep the device away from director sunlight, excessive heat or cold to avoid damaging the batteries.
2. Keep the unit out of reach of small children, infants, or individuals with mental illnesses.
3. Always keep the unit unplugged while not in use.
4. Nebulizers must not be placed in areas with pollutants or smoke.
5. Do not leave the device in a place where pollutants or smoke are present.

3.4 Cleaning Cautions

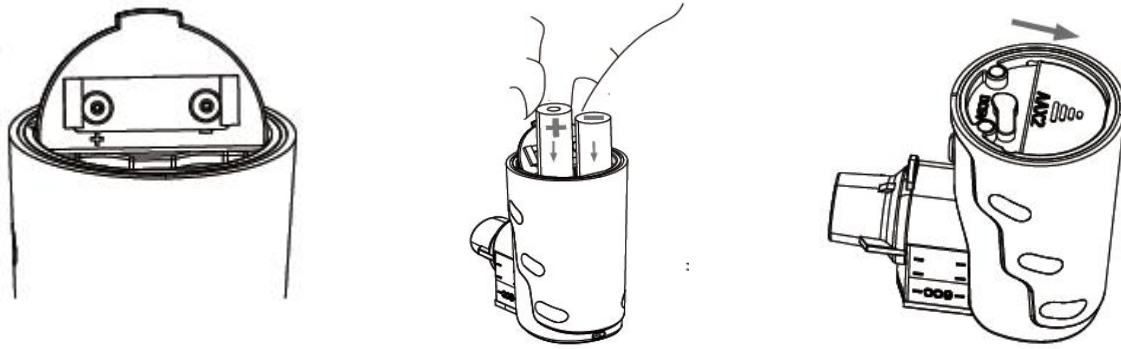
1. Do not immerse the unit in water. It may damage the unit.
2. Disconnect the unit from the electrical outlet before cleaning.
3. Clean all necessary parts after each use as instructed in this guidebook.
4. Don't try to clean the grid with any object, it will damage the grid.

4. Operating your mesh nebulizer

Note: Prior to initial operation, the nebulizer should be thoroughly cleaned.

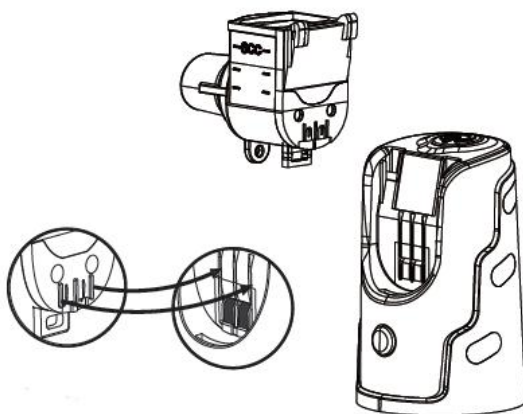
4.1 How to operate with batteries

1. Insert the batteries.
 - Turn the device upside down.
 - Push back and pull up the battery cover to open it.
 - Insert two AA alkaline (1.5 V*2) according to the battery polarity indicated inside the battery compartment.
 - Push down and push forward the battery cover to lock it.

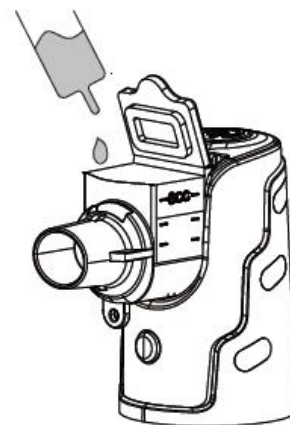


2. Set up medicine cup.

- Align the three ribs on the back of the medicine cup with three trenches of the main unit to insert the medicine cup into the main unit.



Set up medicine cup



Fill the liquid

Important:

- Do not insert a battery with the positive (+) and negative (-) poles reversed;
- Do not use old and new batteries together or mixing batteries with different brands.

3. Fill the liquids.

Make sure that indicator light is off before adding the liquid.

- Open the cap of medicine cup.
- Fill the medicine cup with liquids, do not exceed the maximum volume limit.
- Close the cap properly.

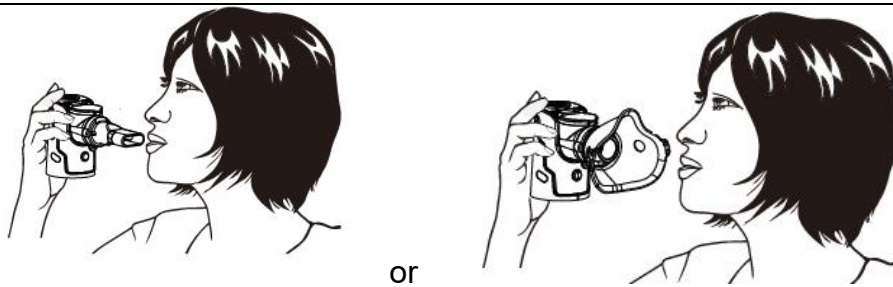
4. Inhalation

- Select mouthpiece or adult/child mask based on patient's actual situation, and assemble it onto the nozzle of the medicine cup.
- Put mouthpiece into your mouth with your lips firmly sealed around the mouthpiece, or put mask on your mouth closely.
- Press the top switch button to turn on the device (light indicator turn on in green).
- Breathe in and out slowly through your mouth until aerosol particulates stop.

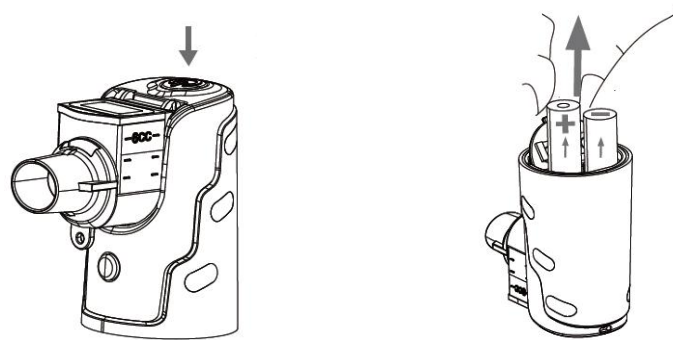
5. End of inhalation

- Press the top switch button to turn it off.
- Remove the batteries from the main unit.

Inhalation:



End of inhalation:



Important:

- Tilt the device slightly towards to the nozzle, while the solution is almost exhausted to make sure that the residual solutions contact the mesh and is nebulized completely.
- If the use of high-viscosity solution, nebulization may be reduced.
- If excessive solutions are accumulated on the mesh, nebulization may stop. In this case, turn off the device and absorb the solutions by gauze or lint-free towel.

Battery life and change

- Battery life is usually depending on the capacity and condition of the batteries. In general, this device can operate about 4 days with two new AA alkaline batteries based on usage of 20 minutes a day.
- When the power indicator turns into red (means low power), please replace the batteries at once.
- Discarded batteries must not be disposed by following local laws and recycling plans regarding disposal or recycling of components, batteries and packaging.

4.2 How to operate with Adapter

Important:

- The power adapter is optional accessories.
- Please use a.c. 100-240V,50Hz adapter, and the connection jack should match a plug with outer diameter of 3.5mm, interior diameter of 1.35mm, 9.5mm in length and positive polarity.
- Adapter cannot charge battery, please remove the batteries before using the adapter.

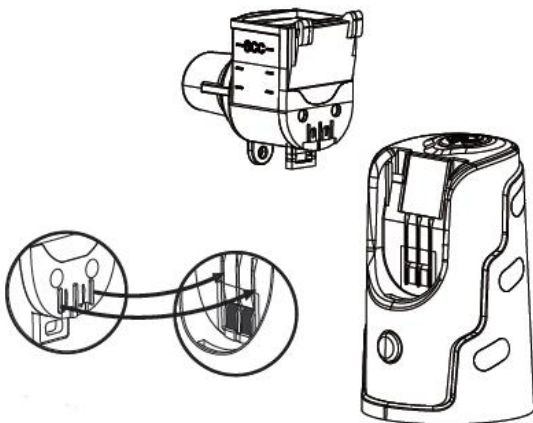
D. As with all electrical devices, it is recommended that keep the device unplugged when not in use.

1. Set up medicine cup

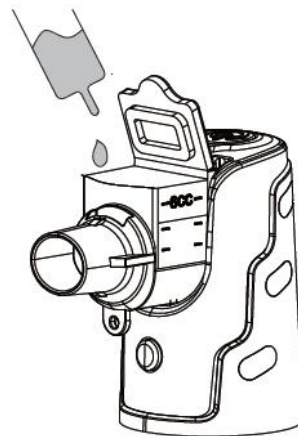
- Align the three ribs on the back of the medicine cup with three trenches of the main unit to insert the medicine cup into the main unit.

2. Fill the liquids

- Open the cap of medicine cup.
- Fill the medicine cup with liquids, do not exceed the maximum volume limit.
- Close the cap properly.



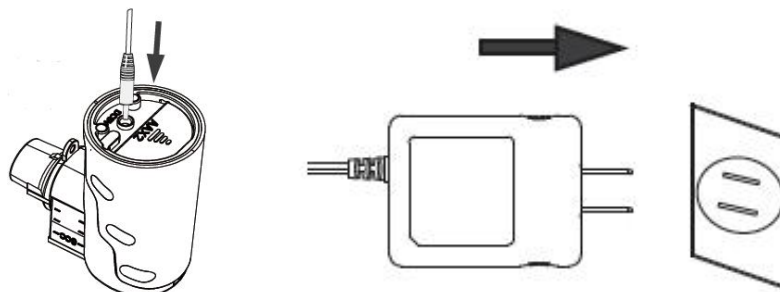
Set up medicine cup



Fill the saline

3. Connect with adapter

- Plug the cable into the power adapter jack on the main unit.
- Plug the adapter into a standard electrical outlet.



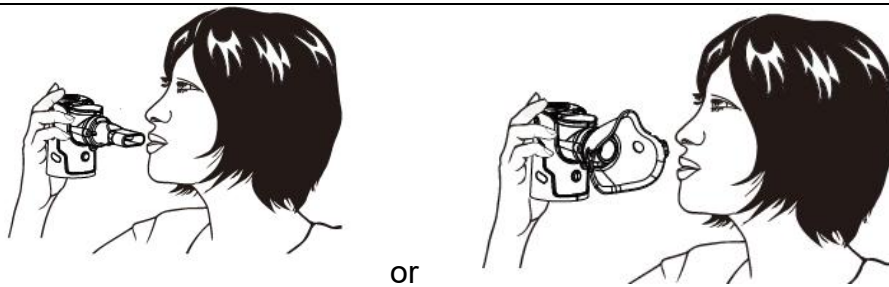
4. Inhalation

- Select mouthpiece or adult/child mask based on patient's actual situation, and assemble it onto the nozzle of the medicine cup.
- Put mouthpiece into your mouth with your lips firmly sealed around the mouthpiece, or put mask on your mouth closely.
- Press the top switch button to turn on the device (light Indicator turns on in green).
- Breathe in and out slowly through your mouth until aerosol particulates stop.

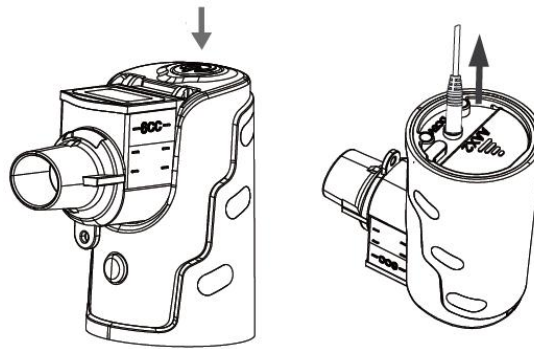
5. End of inhalation

- Press the top switch button to turn it off.
- Remove the adapter from main unit and electrical outlet.

Inhalation:



End of inhalation:



5. Cleaning and Disinfection

Important: If the device is not cleaned and disinfected correctly and frequently as indicated, microorganisms may remain in the unit and cause risk of infection.

All the accessories are for disposable and single-patient-use. After every use:

5.1 Cleaning

1. Disassembly

After use, disassemble the medicine cup, mask or mouthpiece.

2. Pre-cleaning: At room temperature

a) Medicine cup:

- Pour out the residual solutions in the medicine cup.
- Pour some tap water into the medicine cup.
- Turn on the device to nebulize the tap water for 1 to 2 minutes to clean the mesh.

b) Mask and mouthpiece:

- Pre-rinse the parts under running tap water for 1 minute to remove residual medication and mucus.

3. Cleaning

Use a soft-bristled brush to clean the parts, under running tap water, focusing on the medicine cup, mouthpiece, mask groove, and other hardest-to-clean areas for 1 minute.

4. Rinsing

Rinse the device under running drinking water for about 1 minute. Use a soft-bristled brush and sterile cloth to scrub the device.

5. After rinsing, place all components upright and allow to air dry for 1 hour.

6. Remove batteries or disconnect the adapter from the main unit.
7. Use gauze or a clean towel to wipe off stains on the main unit if necessary.
8. Make sure that all cleaned parts are completely dry before you store them or use them next time.

Important:

- a. Keep the battery compartment stay in dry all the time.
- b. Do not use your fingers, cotton swab, or any object to poke the mesh.
- c. Do not use dishwasher to clean parts.
- d. Do not use microwave to dry any accessories.
- e. After the device is thoroughly dried, reassemble all components and store in a cool, dry place away from direct sunlight.

5.2 Disinfection

1. Disinfect the nebulizer parts (medicine cup, mask and mouthpiece) after cleaning them.
2. Soak the nebulizer parts in 70%-75% medical alcohol (ethanol or isopropanol) for 5-10 minutes.
3. Rinse thoroughly again with drinking water, shake off excess water, and then place them in a well-ventilated area to air dry, or dry them with a dry towel.
4. Please ensure that all cleaned parts are completely dry before storing or using them next time.

Important: Alcohol is highly flammable. Do not use alcohol in the vicinity of a fire or smoking.

5.3 Judgement of product reuse**5.3.1 Cleaning and disinfection tolerance**

-The mask or mouthpiece is single-patient, and multiple-use, which can withstand at least 30 times of cleaning and disinfection procedures.

-The medicine cup is designed for 365 applications and 52 disinfections.

-If the treatment of a disease necessitates more intensive use and/or more frequent disinfections, the life cycle of the device is shortened.

-The individual components must be replaced as soon as the expected life cycles indicated above have elapsed, if not sooner.

5.3.2 Mask or Mouthpiece

Do not use the mask or mouthpiece, if any of the following situations occur:

- Exceed the shelf-life printed on the package labeling.
- Due to aging, the edges of the mask or mouthpiece have cracked.
- Large areas of the mask turn light brown/tawny.

5.3.3 Medication cup

Do not use the medication cup, if any of the following situations occur:

- There is corrosion, discoloration or pitting on the mesh sheet.

- Liquid leakage from the medication cup.

5.3.4 Main unit

Do not use the main unit, if any of the following situations occur:

- Obvious crack(s) on the main unit.
- Exceed the service-life of 3 years.

6. Maintenance

6.1 Storage

Put on the mouthpiece cover, store the device and medicine cup in a dry and clean environment.

1. Do NOT leave or carry the device containing residual liquid in the medicine cup.
2. Remove the batteries if device is not in use for long periods. Failure to do so could result in damage due to battery leakage.
3. Do NOT leave the device under direct sunlight, in high humidity, extreme heat or cold environment.
4. Keep this device away from fire, high electromagnetic fields and out of the reach of children.

6.2 Maintenance of the main unit

Wipe the shell with a soft, clean cloth dampened with 70%-75% medical alcohol (ethanol or isopropanol) to remove stains for 2-3 times.

7. Troubleshooting

If any trouble occurs while you are using the device, please check the following list first.

Problem	Possible Cause	Action
Low atomization	Low battery power	Replace the batteries or use the adapter
	The stains on the electrode cause a fault connection	Use rubbing alcohol to clean electrodes
	The mesh holes have been clogged	Refer to Cleaning and Disinfection procedure to clean the medicine cup
	The mesh is broken	Replace the medicine cup
After turn on the power, power indicator is not on and no mist comes out.	The batteries are inserted in the wrong direction	Follow (+) and (-) mark on the battery cover to re-insert the batteries in correct direction
	Batteries are dead	Replace the batteries or use the adapter
	Fault connection between adapter and	Check and reconnect the adapter to main unit

	main unit	
After turn on the power, the power indicator is on but no atomization.	The medicine cup is not installed properly	Refer to Set up the medicine cup procedure to re-install the medicine cup
	The mesh holes have been clogged	Refer to Cleaning and Disinfection procedure to clean the medicine cup
	The mesh is broken	Replace the medicine cup
Power indicator turns into orange light constantly	Low battery power	Replace the batteries or use the adapter
Power indicator turns into orange light and flashing.	Fault connection of electrode and main unit	Use rubbing alcohol to clean electrodes and re-stall the medicine cup
	The mesh is broken	Replace the medicine cup

8. EMC information

The device needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided, and the device can be affected by portable and mobile RF communications equipment.

EMC Warning:

- 1) The portable (ultrasonic) nebulizer is intended to be used in the hospital and family setting except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of EM DISTURBANCES is high.
- 2) Do not use a mobile phone or other devices that emit electromagnetic fields near the unit. This may result in incorrect operation of the unit.
- 3) Caution: This unit has been thoroughly tested and inspected to assure proper performance and operation.
- 4) Caution: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this device and the other equipment should be observed to verify that they are operating normally.
- 5) Use of accessories other than those specified or provided by the manufacturer of this the nebulizer could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- 6) Do not expose the device to RFID systems.

Essential performance of the mesh nebulizer:

Model Number	JLN-MBxxx
--------------	-----------

Full battery indication	Green light
Low battery indication	Red light
Average Nebulization Rate	≥0.25mL/min

Guidance and manufacturer's declaration – electromagnetic emissions

The JLN-MBxxx Mesh Nebulizer is intended for use in the electromagnetic environment specified below. The customer or the user of the JLN-MBxxx Mesh Nebulizer should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The JLN-MBxxx Mesh Nebulizer uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The JLN-MBxxx Mesh Nebulizer is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Compliance	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Compliance	

Guidance and manufacturer's declaration – electromagnetic immunity

The JLN-MBxxx Mesh Nebulizer is intended for use in the electromagnetic environment specified below. The customer or the user of the JLN-MBxxx Mesh Nebulizer should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment –guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8kV direct & indirect contact ±15kV air discharge	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %. If ESD interfere with the operation of equipment, counter measurements such as wrist strap, grounding shall be considered.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for Power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV differential mode ±2 kV common	±1kV differential mode ±2kV common mode	Mains power quality should be that of a typical commercial or hospital environment.

	mode		
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<0 % UT for 0.5 cycles (0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°); 0% for 1 cycle; 70 % UT for 25/30 cycles (0); <0 % UT for 5 s (250/300 cycles)	<0 % UT for 0.5 cycles (0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°); 0% for 1 cycle; 70 % UT for 25/30 cycles (0); <0 % UT for 5 s (250/300 cycles)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the JLN-MBxxx requires continued operation during power mains interruptions, it is recommended that the JLN-MBxxx be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30A/m 50Hz/60Hz	30A/m 50Hz/60Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity

Guidance and manufacturer's declaration – electromagnetic immunity

The JLN-MBxxx Mesh Nebulizer is intended for use in the electromagnetic environment specified below. The customer or the user of the JLN-MBxxx Mesh Nebulizer should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6	3 Vrms, 150kHz to 80 MHz, 6 Vrms in ISM bands 150 kHz to 80MHz, 80% AM at 1kHz	N/A	Portable and mobile RF communications equipment should be used no closer to any part of the JLN-MBxxx, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2 \sqrt{P}$ $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 800 MHz to 2,5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be
Radiated RF IEC 61000-4-3	10V/m, 80MHz to 2.7 GHz	10V/m, 80MHz to 2.7 GHz	

			less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: 
--	--	--	---

Recommended separation distances between portable and mobile RF communications equipment and the EQUIPMENT or SYSTEM

Recommended separation distances between Portable and mobile RF communications equipment and the JLN-MBxxx Mesh nebulizer

The JLN-MBxxx Mesh Nebulizer is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the JLN-MBXXX Mesh Nebulizer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the JLN-MBxxx Mesh Nebulizer as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter (m)		
	150 kHz to 80 MHz $d = 1.2\sqrt{P}$	80 MHz to 800 MHz $d = 1.2\sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3\sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380-390	TETRA 400	Pulse modulation 18Hz	1.8	0.3	27
450	430-470	GMRS 460, FRS 450	FM ± 5 kHz deviation 1KHz sine	2	0.3	28

710	704-787	LTE Band 13,17	Pulse modulation 217Hz	0.2	0.3	9
745						
780						
810	800-960	GSM 800/900, TETRA 800, IDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3	28
870						
930						
1720	1700-1990	GSM 1800, CDMA 1900, GSM 1900, DECT, LTE Band 1, 3, 4, 25, UMTS	Pulse modulation 217Hz	2	0.3	28
1845						
1970						
2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n RFID 2450, LTE Band 7	Pulse modulation 217Hz	2	0.3	28
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation 217Hz	0.2	0.3	9
5500						
5785						

NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

- a) For some services, only the uplink frequencies are included.
b) The carrier shall be modulated using a 50 % duty cycle square wave signal.
c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

9. Specifications

Power	Power Adapter: input :100-240V a.c., 50/60Hz, 0.2 A Max. Output 5V/1.0A; For main unit: 5.0V d.c., 1.0 A or internal batteries: 1.5Vd.c. x 2 AA
Ultrasonic vibration frequency	110Kz±10%
Power consumption	5W
Medicine Capacity	≤8ml
Particle Size	1 to 5 um
MMAD	<5µm
Sound Level	≤50dB
Average Nebulization Rate	≥0.25ml/min
Working conditions	Temperature range: 10℃-40℃ Humidity range: 30%-75%RH Atmosphere pressure: 70kPa to 106 kPa
Storage/ Transportation conditions	Temperature range: -20℃-55℃ Humidity range: 10%-93%RH Atmosphere pressure: 50kPa to 106 kPa
Dimension (L x W x H)	JLN-MB001, JLN-MB003, JLN-MB004: 84*77*48mm JLN-MB008, JLN-MB009: 64*41*114mm JLN-MB002: 85*76*52mm JLN-MB010: 64*48*114mm

	JLN-MB011: 61*47*125mm JLN-MB012: 60*45*115mm
Weight	JLN-MB001, JLN-MB003, JLN-MB004: 80g JLN-MB002: 78g JLN-MB008, JLN-MB009: 61g JLN-MB010: 70g JLN-MB011: 74g JLN-MB012: 85g
Transportation conditions	-20℃-50℃, 10%-93%RH
Standard Accessories	Mask; Mouthpiece
Service life	3 years

10. Particulate distribution data

Test drug: Albuterol 0.1% (M/V) concentration in 0.9% sodium chloride solution.

Item		Big mask	Mouthpiece
Percentage of particulate distribution	>5 µm	12.90%	13.27%
	>2 µm and <5 µm	71.80%	65.40%
	<2 µm	15.30%	21.33%
MMAD		3.35µm	3.41µm
GSD		1.34	1.38
Respirable fraction		88.70%	86.30%
Residual volume		<0.60ml	<0.60ml

Protection against electric shock



- Type BF applied parts

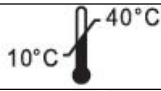
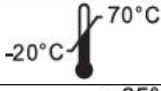
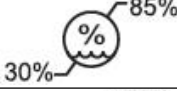
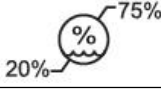


- Class II

Protection against harmful ingress of water: -IP22

Degree of safety in the presence of flammable anesthetics or oxygen: -No AP/APG (Not suitable for use in the presence of flammable anesthetic gas or oxygen)

Symbol	Explanation
	Manufacturer
	Authorised representative in the European Community
	Lot Number
	Serial Number
	Date of Manufacture
	Caution

	Batteries or electronic instruments must be disposed of in accordance with the locally applicable regulations, not with domestic waste
	Refer to instruction manual/ booklet
	Power button
	DC
	Operating Temperature Range
	Storage Temperature Range
	Operating Humidity Range
	Storage Humidity Range
	serial number
	Keep dry
	Environmental protection cycle mark
	Recycling symbol
	<i>Intertek Medical Notified Body AB</i>



Shenzhen Homed Medical Device Co., Ltd.

Address: Room 1601-1614, A Building, Jinxiu III, No. 85 Hudi Pai
Songxuan Community, Guanhu Street, Longhua District,
Shenzhen, 518109, P.R. China.

Tel: 0755-29821675

E-mail: info@homedgroup.com

Fax: 0755-29821953

Website: www.homedgroup.com



Shanghai International Holding Corp. GmbH (Europe)
Address: Eiffestrasse 80, 20537 Hamburg, Germany