SUNSET
HEALTHCARE SOLUTIONS

NEB200
Handheld Compressor Nebulizer

INSTRUCTIONS

Thank you for purchasing the Sunset NEB200 Handheld Compressor Nebulizer.

Before using this product, please read the following instructions thoroughly and carefully. Please keep for future reference. Please consult with your physician for specific information about your own nebulizer.

Caution: Federal law restricts this device to sale by or on the order of a physician
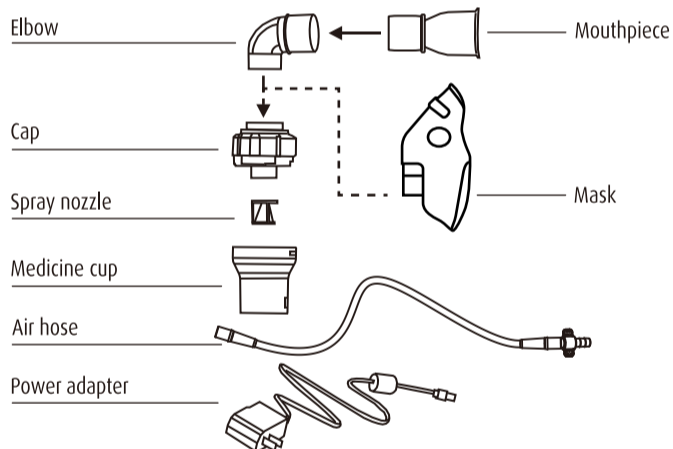
INTENDED USE

The NEB200 Handheld Compressor Nebulizer is designed to provide a compressed air source to aerosolize physician-prescribed liquid medication when used in combination with the packaged nebulizer kit, except for Pentamidine. The packaged nebulizer kit is intended for single patient use. The NEB200 Handheld Compressor Nebulizer is intended for use with child and adult patients in homecare settings.

ITEMS SUPPLIED AND PACKAGING

Before you start to use the Handheld Compressor Nebulizer, please check if the following items are included in the package:
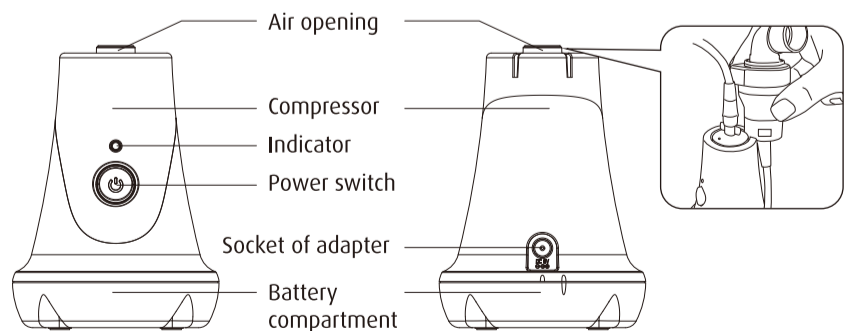
1 Compressor
1 Power adapter
1 Instruction manual
1 Mask
4 AA Batteries

1 Nebulizer kit*
- 1 Mouthpiece
- 1 Elbow
- 1 Cap
- 1 Spray nozzle
- 1 Medicine cup
- 1 Air hose

Elbow
Mouthpiece
Cap
Spray nozzle
Mask
Medicine cup
Air hose
Power adapter

* NOTE
- For good hygiene, please use the mouthpiece, mask and nebulizer kit for one specific individual only and do not exchange them.
- The lifetime of the reusable parts are as follows. Frequent use of the product may shorten the lifetime.
  Air hose: 1 year
  Compressor: 3 years

COMPRESSOR COMPONENTS

Air opening
Compressor
Indicator
Power switch
Socket of adapter
Battery compartment

FEATURES

- Does not use heat so the medicine does not incur heat damage
- Low power consumption
- Small nebulization particle size ~1-5 microns
- Convenient design – compact and lightweight, ideal for traveling
- Short treatment time with high nebulization rate

⚠ SAFETY PRECAUTIONS

- Use the equipment only for its intended use as described in these instructions. Use only attachments that are recommended by the manufacturer.
- Use the equipment only with medications under the instructions of your physician.
- Do not use the equipment if it has any damaged parts, or if it has fallen into water.
- Follow cleaning instructions before using equipment for the first time, after storing for an extended period, and after every use.
- Do not use while bathing.
- The unit should not be left unattended while plugged in or turned on.
- Keep the unit out of reach of small or unsupervised children.
- Keep the device's small, detached parts away from children to prevent choking, inhalation, or swallowing.
- Do not try to modify the device.
- Do not place the device in liquid, or put it where it could fall into liquid. If the device becomes wet, unplug the device before touching it.
- Do not use the device if it is not working properly, or if it has incurred any damage.
- Do not drop the nebulizer or subject it to impact.
- Do not expose the nebulizer to direct sunlight, high temperatures or humidity.
- The nebulizer is NOT suitable for use in anaesthetic breathing systems or lung ventilator breathing systems.

IMPORTANT INFORMATION ABOUT INHALATION THERAPY

This device is ideally suited for inhalation at home or when traveling. It offers highly effective, fast-acting inhalation treatment for patients of of all ages.
Carry out inhalation in a quiet and relaxed state, and inhale slowly and deeply, so that the medication can penetrate to the bronchial tubes. Exhale normally.
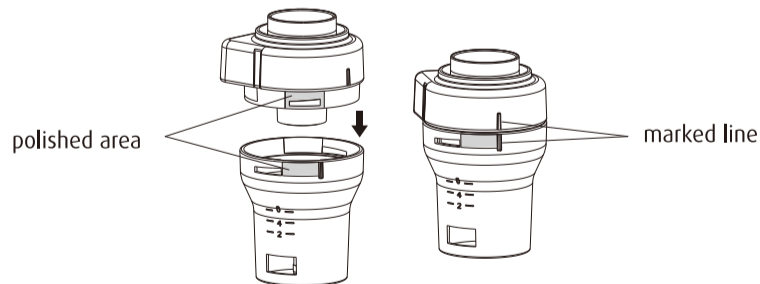
OPERATING INSTRUCTIONS

Important Information Before Use

⚠ Warning: For type, dose, and regimen or medication follow the instructions of your physician or licensed healthcare practitioner.

⚠ Caution: In consideration of the risk of cross-contamination, do not share the accessories with others.

⚠ Caution: Provide close supervision when this device is used by, on, or near infants, children or compromised individuals.

⚠ Warning: Do not plug or unplug the AC adapter into the electrical outlet with wet hands.

⚠ Warning: Do not overload power outlets. Plug the AC adapter into the appropriate voltage outlet.

- Ensure that all parts are clean and dry.
- The device is designed for intermittent use: 30 minutes ON / 30 minutes OFF.
- Do not remove the medication cup cover from the unit during nebulization.
- Test the nebulizer to make sure it is functioning correctly by pouring drinking water (2 to 5 ml) into the medicine container. Press the power switch to turn on the device and to check if it is working properly. Turn off the unit, and discard any remaining water. Then you may begin actual treatment by following medication instructions.

Unit Assembly and Usage

⚠ Caution: Provide close supervision when this device is used by, on, or near infants, children or compromised individuals.

⚠ Warning: Do not plug or unplug the AC adapter into the electrical outlet with wet hands.

⚠ Warning: Do not overload power outlets. Plug the AC adapter into the appropriate voltage outlet.

1. Correctly position the spray nozzle inside the medicine cup.

2. Slowly pour the prescribed medication into the medicine cup. The maximum capacity of the cup is 6 ml.
   Please note that the medication must not exceed this maximum level marking (6 ml).

3. Align the polished areas on cap and medicine cup, and close by turning clockwise until secure. Make sure both are closed well until the lines marked on the cap and medicine cup are in alignment. If you are using the mouthpiece, connect the mouthpiece to elbow, and then attach elbow to the top of the cap. If you are using the mask, attach the mask to top of the cap.

polished area
marked line

4. To use the nebulizer, you may put together the compressor and the medicine cup with the air hose or simply place the medicine cup on top.
5. Plug the power adapter into the wall outlet; plug the power cord of the adapter into the socket on the side of the compressor.
6. Press the power switch to turn on the device. Begin treatment according to your physician's instructions.
7. Inhale and exhale naturally. The mouthpiece should only be used for oral inhalation. Be sure to stop when the medication is exhausted.
8. When you have completed treatment, press the power switch to turn the device off before you disconnect the air hose. Unplug the power cord, remove the inhalation accessories used and proceed with cleaning operations as described in the "Cleaning and Maintenance" section.

Inhalation with Mouthpiece and Mask
How to use the mouthpiece
1. Insert the mouthpiece into the elbow.
2. Close your lips around the mouthpiece and start treatment as recommended by your doctor.
How to use the mask
1. Insert the mask into the elbow.
2. Place the mask onto your face and start treatment as recommended by your doctor.

CLEANING AND MAINTENANCE

Please clean your device after each use according to the instructions below.

Before Cleaning

Make sure that the nebulizer is turned off before disassembly.

Cleaning of Nebulizer Parts/Accessories

⚠ Caution: Always dispose of any remaining medication in the medication container after each use. Use fresh medication each time you use the device.
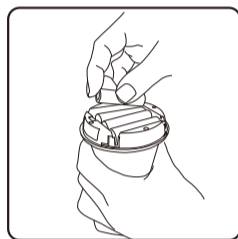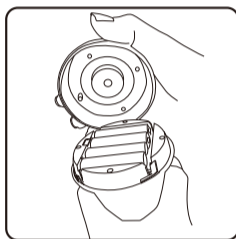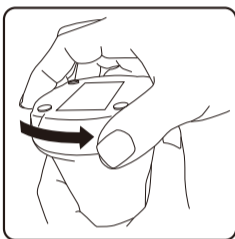
1. After you have disconnected the air hose, remove the mouthpiece or mask. Replace elbow, cap, spray nozzle and medicine container.
2. Discard any remaining medication.
3. Wash mouthpiece / mask, elbow, cap, spray nozzle and medicine container with running water or soak in warm water for 15 minutes.
4. Gently wipe off excess water with a clean dry cloth and allow to air dry on a clean paper towel.

Cleaning of Compressor

1. Use cotton swabs with alcohol to wipe the outer casing of the compressor.
2. Let it air dry on a clean paper towel.

Replacing the Battery

1. Battery capacity is low when indicator light turns red. Please change batteries immediately.
2. Turn off the meter, and then hold the unit upside down with the battery compartment on top.
3. Open the battery compartment by turning the top in counterclockwise direction. Put the lid aside for later use.
4. Replace the batteries with new ones and place them accordingly.
5. Place the lid back by screwing it down in a clockwise direction.

NOTE

- The above-named accessories can be regarded as consumable items, please replace with new ones if they become dirty and obstructed.
- Only use the aerosol nebulizer kit manufactured for Sunset Healthcare Solutions

REPLACEMENT PARTS

NEB200MP
Mouthpiece

NEB200RE
Elbow

NEB200CUP
Medicine Cup

NEB200CORD
Power Adapter

STORAGE AND MAINTENANCE

1. Always handle your nebulizer with care.
2. If using the power adapter, disconnect the power plug from the wall outlet when not in use.
3. Keep your nebulizer out of reach of children.
4. If you store your nebulizer, do not bend the air hose.
5. Keep within the following environmental ranges:
   a) Temperature: -13°F to 158°F (-25°C to 70°C),
   b) Relative humidity: 10% to 95%
6. If possible, store your nebulizer in a well-ventilated room.

WARRANTY

Sunset Healthcare Solutions offers a limited 1-year warranty on the NEB200 unit to be free from defects in material and workmanship under normal use and operation for a period of 1 year from date of original retail purchase. This warranty does not extend to failures resulting from accidental damage, misuse, negligence, abuse, alteration, or improper operation. This warranty does not extend to non-durable components which are subject to normal wear and need periodic replacement nor does this warranty extend to hospital or clinic use.
All items returned must be properly packaged and shipped in a manner to avoid shipping damage at the purchaser's expense. DO NOT return any product(s) or part(s) to Sunset Healthcare Solutions without prior consent. For replacement under warranty, please call: 1-877-578-6738 (Monday to Friday, 9 am to 5 pm CST).

DEVICE DISPOSAL

The compressor nebulizer should not be thrown out with regular household waste. It should be disposed in accordance with local regulations.

SYMBOL INFORMATION

Symbol	Referent	Symbol	Referent
📖i	Consult instructions for use	🧍	Type BF Equipment
⚠	Caution or Warning, consult accompanying documents	%⃠	Humidity limitation
🌡	Temperature limitation	IP22	Ingress protection rating

TROUBLESHOOTING

Symptom	Probable Cause	Solution
The device does not work or the device is on but nebulizes weakly.	The plug is improperly inserted into the device.	Re-plug and make sure that the plug is properly inserted into the device.
	Compressor switch is off.	Turn the switch on.
	Air hose is bent.	Remove any bend or kink in the air hose.
	The spray nozzle is loose or crooked.	Place the spray nozzle in its correct position.
	No medicine is left.	Add the appropriate amount of medicine prescribed by your physician to the medicine cup.
The device is on but does not nebulize.	The medicine cup and cap do not fit together well.	Carefully reassemble the medicine cup and cap and twist them together well.
	Medicine texture is too thick.	Shake the medicine

SPECIFICATIONS

Model Number: NEB200
Dimension & Weight: 115 x 85 x 207 mm; 205 g
Power Source: DC 6V or 4 AA batteries
Power Consumption: 6 W
Compressor Pressure Range: 90 to 138 kPa
Operating Pressure Range: 35 to 69 kPa
Maximum Flow Rate: ≧3 LPM(l/min)
Noise Level: 60 dBA
Input (AC adapter): 100-240V / 50/60Hz

IP Classification: IP22
Mode of Operation: 30 mins on/ 30 mins off
Nebulization Rate: ≥ 0.25 ml/min
Medication Capacity: 6 ml (maximum) / 2 ml (minimum)
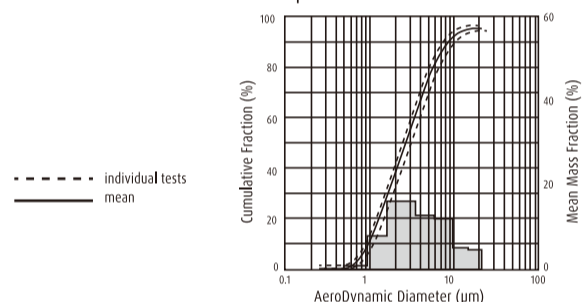MMAD: Approximately 3 microns
Aerosol Output: 1.8 ± 0.05 (ml)*
Aerosol Output Rate: 0.32 ± 0.003 (ml/min)**

Operating conditions: 41°F to 104°F (5°C to 40°C), 15% to 93% relative humidity, 700 hPa to 1060 hPa
Storage conditions: -13°F to 158°F (-25°C to 70°C), 10% to 95% relative humidity

Plot of cumulative size distribution of results for particle size

- - - - - individual tests
———— mean

* : Continue the treatment until the medicine cup is empty or the mist stops.
** : The treatment time for aerosol output rate is 1 min.

NOTE

- Please contact your place of purchase for assistance with any other difficulties.
- Particle size may vary with properties of medication such as suspensions or high viscosity. See medication supplier's data sheet for further details.

Reference to Standards:
- Electric Safety Standards IEC 60601-1, IEC 60601-1-11
- Electromagnetic Compatibility according to EN 60601-1-2
- Particle Size according to EN 13544-1