

# osmo

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## **MESH NEBULIZER USER MANUAL**



# Mesh<sup>YM-252</sup> Nebulizer



- No noise
- One key start
- No maintenance
- Fine atomization

# Mesh Nebulizer

**Thank you for purchasing this product. Please read the operating instructions carefully and keep them for future reference. Be sure to make the manual available to other users and follow the instructions it contains.**

## 1. Get to know your instrument

This nebulizer is a mesh nebulizer for treating the upper and lower respiratory tract. The nebulization and inhalation of medically prescribed or recommended medication can prevent respiratory diseases, treat the side effects of these diseases and accelerate healing.

Further information on possible applications can be obtained from your doctor or pharmacist. The device is suitable for inhalation at home. Medicines should only be inhaled as directed by a doctor. Inhalation should be carried out in a calm and relaxed atmosphere.

Breathe in slowly and deeply so that the medicine can reach the small bronchi deep in the lungs. Breathe out normally.

## 2. Signs and symbols

The following symbols appear in these instructions.

Warning: Warning that indicates a risk of injury or health.

Important: Safety notice indicates possible damage to the device/accessories.

### 3. Safety Information and Warnings

A warning

1. Before use, ensure that the device or accessories have no visible damage. If in doubt, do not use the device and contact your dealer or the customer service address provided.
2. Use of the device is not a substitute for consultation or treatment by a doctor. If you experience pain or discomfort, always contact your doctor first.
3. If you have any health concerns, contact your doctor.
4. Only use medicines that have been prescribed or recommended for you by your doctor or pharmacist.
5. If the unit dose does not work properly or you feel discomfort or pain, stop using the device immediately.
6. Keep the device away from the eyes during use as some medications in the nebulizer may harm the eyes.
7. Do not operate the device near flammable gases.
8. Do not use the device near electromagnetic transmitters.
9. This device is not intended to be used by children or persons with reduced physical, sensory (e.g. insensitivity to pain) or mental capabilities or persons who lack the necessary experience or knowledge to operate the device safely, unless they are supervised or instructed by a person responsible for their safety.
10. Do not immerse the device in water or use it in damp rooms. Do not allow any liquid to enter the device.
11. Remove the batteries from the device if you are not going to use it for a long time. Leaking batteries can damage the device.

## **& Important**

1. Store the device in a place protected from environmental influences. The device must be stored under the specified environmental conditions.
2. Do not use liquids with a viscosity (thickness) greater than 3, as they may cause irreparable damage to the mesh.
3. Do not use medicines in powder form (even in dissolved form).
4. Do not shake the atomizer, otherwise liquid may leak and damage the device.
5. Unplug the device after using the adapter.
6. Turn off the device immediately if it is defective or malfunctioning.
7. The manufacturer assumes no liability for any damage or injury resulting from improper or improper use.

## **4. Useful information about the device**

### **Accessories**

The safe functioning of the device can only be guaranteed when using the accessories recommended by the manufacturer.

## **& Important**

Protection against leaks When filling the medication container with medication, ensure that you do not exceed the maximum mark (8 ml). The recommended filling quantity is between 2ml and 8ml.

During use, you can tilt the device up to a maximum angle of 45° in any direction without affecting the nebulization function or the success of the treatment. However, please try to keep the device upright as much as possible.

### **Automatic shutdown**

The device has an automatic switch-off function. To avoid damage to the network, the device switches off automatically when the medication/liquid is almost completely used up.

Do not use the device if the medication container or water tank is empty. The device switches off automatically when the material to be sprayed no longer has contact with the network.

## **5. Description of device and accessories**

For convenience, the following “1.Medicine Container” and “2.Mesh Nebulizer” are referred to by a common name: Medicine Cup Module (12)

Medicine Container Mesh Atomizer Power Button/Power LEDs: Blue: Device Ready  
Red: Change Batteries Device Body Battery Compartment Adapter Plug

## **6. First time use**

Before using the device for the first time:

The atomizer and accessories must be cleaned and disinfected before first use. For information on this, see "Cleaning and Disinfection".

## **7. Assembly**

1. Take the device out of the packaging.
2. Attach the medicine cup to the device body
3. When removing the medication cup, please press the PUSH button and pull up the medication cup.

## **8. Inserting the batteries**

1. Open the battery compartment at the bottom of the device. Apply light pressure and pull the battery compartment cover in the direction of the arrow, then fold the cover up.
2. Inserts ALKALINE or rechargeable (AA) batteries.
3. Make sure the terminals of the batteries touch their respective terminals. Insert the batteries Figure 3 into the device.
4. Fold the battery compartment cover down again and push it back in the opposite direction of the arrow.

Note:

When changing the battery, make sure that the medication container is completely empty, otherwise there is a risk of leakage.

If the red LEDs (3) light up red, replace the batteries. If the batteries are weak, spraying becomes significantly less effective.

With new alkaline batteries you can operate the device for approximately 60-70 minutes.

If the device is not used for a long time, please take out the battery.

## **9. Operating the device with the AC adapter**

1. Remove the batteries before using the adapter.
2. Plug the USB cable into the connection socket.
3. Plug the adapter into the NC socket.

Note:

1. Remove the batteries when operating the device with the adapter.

## **10. Operation**

### **Preparing the nebulizer**

- For hygiene reasons, it is imperative that the nebulizer and associated accessories are cleaned and disinfected after each use.
- If therapy requires inhalation of different medications sequentially, ensure that the medication cup module is flushed after each use.

### **Filling the atomizer**

- Open the medication container by opening the clip and fill the medication container with an isotonic saline solution or medication. Don't overfill!
- Use medication only on the advice of a doctor and check the inhalation time and amount that is appropriate for your needs
- If the recommended dose of the drug is less than 2 ml, add this amount to at least 4 ml and use only isotonic saline. Viscous medications may also need to be diluted. Always follow your doctor's instructions.
- Close the medication container lid and lock the clip



## 11. Matching accessories

Securely attach the accessories (mouthpiece, adult IT mask, or pediatric mask) to the assembled medication container

1. Place the device on your mouth and close your lips tightly around the mouthpiece. If you are using one of the masks, place it over your nose and mouth.
2. Start the device with the on/off button
3. The spray mist coming out of the device and the glowing blue LEDs indicate that the device is working properly.

## 12. Breathe in properly

### Breathing technique

1. The correct breathing technique is important so that the particles are distributed as widely as possible throughout the respiratory tract. In order for them to enter the airways and lungs, you must breathe in slowly and deeply, hold your breath briefly (5 to 10 seconds), and then breathe out quickly.
2. You should only use nebulizers to treat respiratory diseases as directed by your doctor.
3. Certain medicines are only available with a prescription.

### Remarks

You should keep the device upright if possible. However, tilting it slightly has no effect on its function as the container is leak-proof. To ensure that the device functions properly, ensure that you do not tilt the device more than 45° in any direction and do not come into contact with the medicine during use.

## **& Important**

Essential oils, cough medicines, solutions for gargling and drops for application to the skin or for use in the steam bath are completely unsuitable for inhalation with the nebulizer.

### **13. End of inhalation**

1. After treatment, switch the device off using the on/off button
2. The LEDs go out.
3. As soon as the inhalant is completely sprayed out, the device switches off automatically. For technical reasons, a small amount may remain in the medication container.
4. If applicable, disconnect the adapter from the NC socket.

### **14. Cleaning and disinfection**

Please note the following hygiene instructions to avoid health risks. The nebulizer and accessories are intended for multiple use. Please note that the requirements for cleaning and hygienic preparation vary depending on the area of application.

#### **Remarks**

1. Do not apply pressure to the net with brushes or similar as this can easily puncture the net and cause irreparable damage and will void the warranty. The metal is very thin and can be easily punctured.
2. Before cleaning the case or medication chamber, always remove the battery or adapter first, otherwise liquid may get into the electronic components. Liquid entering the device can damage the electrical parts and impair the function of the device.

1. Remove the mouthpiece and all accessories from the atomizer.
2. Add 6 ml of clean water to the medication container (1) and switch on the device to first remove any medication residue from the network. (Please use up all the liquid).
3. Remove the batteries.
4. If there are still traces of medical solutions or contamination on the gold-colored contacts of the device and atomizer, remove them with cotton swabs.

## **Disinfection**

Follow the steps below carefully to disinfect your atomizer and accessories.

1. It is recommended to disinfect the individual components after their last daily use at the latest.
2. First clean the atomizer and accessories as described under "Cleaning". You can then continue disinfecting

## **Disinfection with hot water**

1. Add 5ml of hot water to the medicine cup module.
2. Spray until the water in the medication module runs out.

## **Cleaning**

1. Dry all components carefully with a soft cloth.
2. Gently shake the mesh atomizer back and forth (5 to 10 times) to remove the water inside.
3. Place the individual components on a dry, clean and absorbent surface and allow to dry completely (at least 4 hours).

## **Remarks**

- Make sure all parts are thoroughly dried after cleaning, otherwise there is an increased risk of bacterial growth.
- Once all components are completely dry, reassemble the nebulizer and place the components in a dry, sealed container.
- Shake to ensure the medicine container is completely dry. Otherwise, the misting may not work properly after assembling the device. If this occurs, disassemble the medication container again and shake it to allow the water to escape. After reassembly, the nebulizer should work as usual again.

## 14. Technical specification

Power consumption: 2.0W. Input: 5V/1A;

Oscillation frequency: 110 kHz  $\pm$  10%

Condensation rate:  $\approx$ 0.2 ml/min.

Atomized particles:  $\mu$ s;  $\mu$ m

Volume: max. 8 ml

Product weight: 115 g  $\pm$  10%

Size (L x W x H): 45 x 45 x 100 mm

Housing material: ABS

### **Operating conditions:**

Temperature: +5 °C to +40 °C;

Relative Humidity: <93% RH, non-condensing.

Storage and transport conditions:

**Operating conditions:** Temperature: -20°C to +50°C.

Relative humidity: <93%, non-condensing

*Please follow your doctor's prescription.*

*Specifications are subject to change without notice.*