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I n s t r u c t i o n s   f o r   u s e

**MESH NEBULIZER**  
**MODEL: TH-134**  
**MODEL: TH-135**



READ THIS INSTRUCTION  
MANUAL CAREFULLY  
BEFORE USE

**MESH NEBULIZER MODEL: TH-134 • TH-135**

# MESH NEBULIZER

MODEL NO.: TH-134

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## INSTRUCTION MANUAL

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## 1. INTRODUCTION

### Dear Customer,

This manual contains important information you must know about the product. Please read it thoroughly before use. Please keep this manual with you.

The Nebulizer's quality will be different by different medicine characteristic; the flow rate may be varied. Besides, when medicine is in low temperature that flow rate will be decrease.

## 2. INTENDED PURPOSE

Medical purpose	This product is intended to be used for inhaling medication for respiratory disorders.
Intended user	Legally certified medical experts, such as doctor, nurse and therapist, or healthcare personnel or patient under the guidance of qualified medical experts.
Environment	This product is intended for use in a medical facility, such as Hospital, clinic and doctor's office, in a room of general household, and in open-air environment with a roof.
Durable period	Durable periods are as follows. Durable period may vary depending on usage environment. <b>Main body</b> – 2 years <b>Medical cup, Mouth piece, Mask</b> – 6 months

## 3. PRECAUTIONS

When using an electronic appliance, basic precautions should always be followed, including the following:

1. Close supervision is necessary when this appliance is used by, on or near children, handicapped persons or invalids. Besides, the dosage and frequency of the use also has to be specified by the prescribing physician.
2. Do not operate under the blanket or pillow. Excessive heating can occur and cause fire, electric shock, or injury to persons.

3. Use this appliance only for its intended use as described in this manual.
4. Do not use cotton swabs or other objects to touch the mesh; otherwise, product will not operate.
5. Do not use different type batteries in the same time.
6. Do not carry or store the product which is still remaining medicine in medical cup.
7. For the type, dose, and regimen of the medication, be sure to follow the instructions of a doctor.
8. Do not immerse them in water.
9. Do not use disinfection solution containing sodium hypochlorite.
10. Do not inhale by using water in the medication bottle.
11. Do not drop or apply strong shock to the Main unit.
12. Do not use any attachments or accessories not recommended by the manufacturer.
13. Discard the waste batteries and device according to local law.
14. When environment temperature raised to 40°C the product shelf temperature will raise up to 50°C.
15. Do not use nebulizer on top of or close to other electronic device.
16. Do not drop the nebulizer. Do not apply strong shocks to the nebulizer.

**FEATURE:**

1. This product utilizes ultrasonic vibration to turn liquid drug into fine mist which is then sent to the respiratory tract and oral cavity by a venting system so that therapeutic result can be achieved.
2. Compact and easily to carry.
3. Ultrasonic vibration which produces 100,000 ~ 120,000 vibrations per second.
4. After 20-minutes continuously operation or when the medical cup is no medicine, the appliance will automatic shutdown. However, the no-medication detector has the possibility not function if that mesh blocked by medication.
5. Built-in low-battery indicator.
6. No matter use the product in different angle, that still can operate normally in short term. When put the product upside down, medicine cannot contact to mesh, the product still can operate normally in few seconds (it can be different if different medicine is in using).

## 4. NOTICE FOR SAFETY OPERATION

To ensure safety, please do follow all rules below:

### 1. Before using

- Use this appliance in the correct manners outlined in this manual.
- This appliance had to operate under nominal temperature (10°C ~ 40°C), outside the nominal temperature range was not suitable to operate the product.
- Before Using, please proceed with cleaning procedure described in the cleaning and maintenance procedure.
- The medicine treatment should according to doctor's advice.
- If the product operates improperly, please discontinue use it and send it for repairing immediately or consult your dealer.
- If the medical cup is not functioning very well (such as very weak spray volume etc.), before using, please replace it.
- When this appliance has not been used for a while, if any part (such as medical cup, mouth piece or mask) seems dirty, please proceed with cleaning procedure described in the cleaning and maintenance procedure.
- Do not add medicine over the indicated line marked on medical cup (8c.c marking).
- Do not disassemble or make any modification on this appliance.

### 2. Under using

- Children or disable patients should be assisted by adults or medical personnel when using this appliance.
- Do not use this appliance under a high humid environment (>85% RH)
- Do not use this product if the medical cup without any medicine.
- Keep the appliance in flat position and steady during operation to avoid spillage.
- Do not open the cover of medical cup during operation.
- Keep eyes away from the mist output.
- Treatment period please follow the doctor's advice.

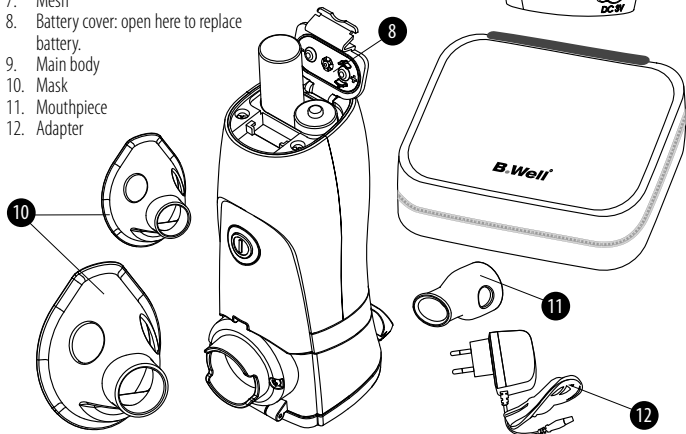
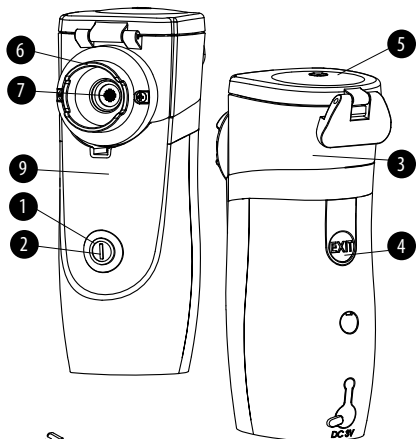
- Different patients should use individual clean medical cups and mouth pieces to avoid cross infection.
- Some medicine dose not nebulizes well, please consult with your doctor.
- This appliance has a low-battery indicator. When the indicator light is green, the power is good for working. When the power light turns to orange, the battery is become weak, but you still can use product, however you may need to replace battery soon. If the power light is turns red it means voltage is too low to operate, please replace the battery immediately.
- During using this appliance, if any irregularity or discomfort is observed, please discontinue use this appliance.
- This product has built-in a 20-minute shutoff timer. If it cannot be shutoff automatically, discontinue using and consult your dealer for help.
- If product detects no medicine in the medical cup, the LED indicator will turn red and flash three times then shutoff automatically
- When under using, you can use the product in any angles. But, make sure medicine has good contact with mesh.

### 3. After using

- Please clean all parts after each usage and do follow instruction in the manual.
- Do not immerse this appliance in water when cleaning to avoid damaging any electrical parts.
- Do not store this appliance in direct sunlight, outside our suggestion storage temperature and humidity environment.
- Keep this product from the reach of children.

## 5. NAME OF COMPONENT

1. Power button: press to turn on or off the appliance.
2. Indicator Light: Indicate the power condition.  
(Green for normal/Orange for battery weak/Red for exhausted battery) and also showing is there still have medicine inside the medical cup. If there is no medicine inside, indicator light will turn red and flash three times before turn off automatically. However, the no-medication detector has the possibility not function if that mesh blocked by medication.
3. Medical Cup: Contain the medicine.  
(Suggestion: Replace a new medical cup per year)
4. Push button: push here to release the medical cup from the main body.
5. Medical cup cover: open here to pour the medicine.
6. For Mouthpiece or Mask
7. Mesh
8. Battery cover: open here to replace battery.
9. Main body
10. Mask
11. Mouthpiece
12. Adapter



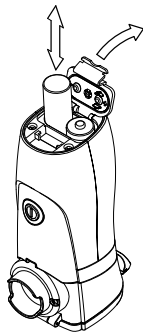
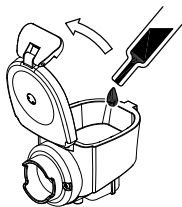
## 6. HOW TO USE

1. Make sure that all parts such as mouthpiece or mask, medical cup are clean, or clean the above three parts before using.
2. Open the battery cover and put in batteries.  
(The battery life varied by using different brands of battery)  
Suggestion: Use Alkaline batteries or Ni-MH rechargeable Batteries (option).

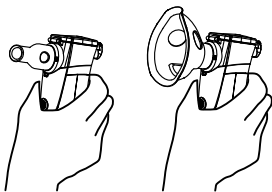


1. Remove batteries if the unit is not in use for long periods. Failure to do so could result in damage due to battery leakage.
2. Discard the waste batteries according to local law.

3. Open the medical cup cover and pour the medicine into the medical cup and close the cover completely.



4. Install mask or mouthpiece properly and start using the appliance.
  - When the power button is pressed and the appliance starts working the green light will on (sometimes, in orange and which depend on battery power remained) and the build in timer will start to countdown.
  - If the indicator turns orange, it shows the battery is weak. If the appliance is activated and the power indicator turns to red, it





means the batteries are exhausted and the appliance cannot operate properly. Please replace with new battery immediately.

- If there is no medicine inside the medical cup, indicator light will turn red and flash three times before appliance turning off automatically.

## 7. CLEAN AND MAINTENANCE NOTICE

Before and after each using, please clean the following parts:

### 1. Remove the medical cup and mouthpiece or mask. Discard all remaining medicine in the cup.

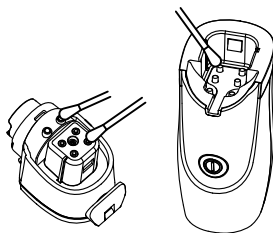
- Open the medical cap and discard all remaining medicine.
- Pour in some hot water and close the cover completely.
- Press the power button and operate 1~2 minutes to discard all remaining medicine completely.

⚠ Ensure medicine be cleaned completely after each using, otherwise, it could cause mesh blocked.

### 2. Clean the surface of main body of appliance with cotton swabs or a piece of fine cotton fabrics.

Please clean the electrode in the main body and medical cup, ensure normally electrical conduction.

⚠ Please do not use easily volatility liquid to clean the electrode, ex. Benzene, thinner.



### 3. Clean the medical cup, mouthpiece and mask with clean water and store at a safety place after cleaning the surface with ethanol.

**Suggestion:** Use a new medical cup for different illness or patients to avoid cross infection.


## 8. DISINFECTION

Medical cup can be disinfected by boiling in hot water. After 3-4 minutes of boiling, shake off excessive water from the cup and let them dry on a clean, lint free (paper) towel.

 Main unit, mask, mouth piece can Not be boiled.

## 9. TROUBLE SHOOTING:

After checking the followings, if any problem still persists, please return the appliance to your dealer for servicing.

Cause of failure	Causes and reaction measures
Push power button, but no operation	<ol style="list-style-type: none"> <li>1. Check if the battery voltage is sufficient? When the appliance's red indicator light is on, the battery power is too low. Please replace the battery immediately.</li> <li>2. Discard the waste batteries according to local law.</li> </ol>  <ol style="list-style-type: none"> <li>3. Check the battery is installed correctly? Open battery cover and check if the battery electrode is rusted or not.</li> </ol>
Cannot nebulize or not enough mist output	<ol style="list-style-type: none"> <li>1. Check if the medical cup is filled with appropriate amount of medicine?</li> <li>2. The mesh in medical cup blocked by remaining medicine. Cleaning medical cup, if still can't solve problem, please replace a new medical cup.</li> <li>3. The mesh surface (mesh output) has covered by water or medication. Remove water or medication from mesh surface.</li> <li>4. Medical cup is not installing properly. Release the medical cup from main body and push it back again.</li> </ol> <p><b>Suggestion:</b> Replace a new medical cup per year.</p>

## 10. THE ACCESSORIES

	Model No.	Size
Child Mask	PY-001-MS	87.22 × 64.35 × 57 mm
Adult Mask	PY-001-ML	124 × 77 × 68.5 mm
Mouth Piece	PY-001-MP	43 × 27.5 mm
Medical Cup (Gray)	PY-001-MC	54 × 43.99 × 38.50 mm
Medical Cup (Blue)	PY-001-B-MC	54 × 43.99 × 38.50 mm
AC Adaptor	PY-AE/AU	95 × 44 × 65 mm

## ELECTROMAGNETIC COMPATIBILITY

Many electronic devices are used in our near environment. Your nebulizer is susceptible to electromagnetic interference from these electronic devices. These interferences may cause incorrect functioning of the nebulizer and can generate unsafe situations. In order to prevent such unsafe situations, your nebulizer is designed and tested according to EN60601-1-2 standards. These standards define the levels of immunity to a device from electromagnetic interference as well as maximum levels of electromagnetic emissions from the medical device. The electromagnetic emissions of your nebulizer are extremely low, however, special precautions should be observed:

- It is recommended that you do not place the device on top of or close to other devices (such as mobile phone). Should you notice any interference with other electrical devices, keep the device away from those electronic devices.

## EMC DECLARATION SHEET

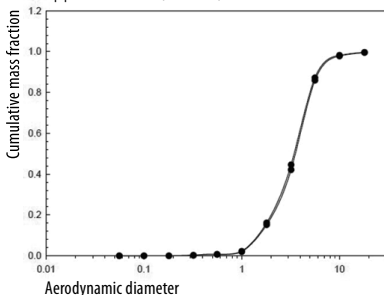
Guidance and manufacturer's declaration-electromagnetic immunity			
This device is intended for use in the electromagnetic environment specified below. The user of this device should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge(ESD) IEC 61000-4-2	± 6kV contact ± 8kV air	± 6kV contact ± 8kV air	Floors should be wood,concrete or ceramic tile.If floors are covered with synthetic material, the relative humidity should be least 30%.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of typical location in a typical commercial or hospital environment.
<b>NOTE</b> UT is the a.c. mains voltage prior to application of the test level.			

## 11. SPECIFICATIONS

Model Number	TH-134 • TH-135
Power Supply	1.5V × 2 AA Size Alkaline battery or AC adaptor (optional). Input: 100~240 VAC, 0.3-0.15A, 50~60 Hz Output: 3VDC, 1.33A
Power Consumption	< 2W
Active current consumption	< 650 mA
Standby current consumption	< 0.35mA
Battery life	Continue operation: 1 hour (min) for brand new 1.5V × 2, AA, Alkaline battery or Ni-MH rechargeable Batteries (option).
Full battery indication	> 2.2V, green light
Weak battery indication	2.0V ~ 2.2V, orange light
Low battery indication	< 2.0V, red light
Operation environment	10~40°C, 30%~80% RH
Storage/ Transportation environment	-20~70°C, ≤85% RH
Nebulization rate	0.2mL/min, ~1.0mL/min(Max)
Time AUTO-OFF	Power on, operate 20 min. Then auto-off
Nebulizer auto-off	No medication
Medication bottle volume	2~8 mL (Max.)
Mesh oscillation frequency	103kHz - 123kHz ± 1kHz
Particle Size	appr. 5μm (MMAD)

*The method of measuring particle size is according to EN 13544-1:2007 Annex CC*








- **Particle size:** about 5μm
- **Nebulization rate:**  
within 0.2~1.0 ml/min  
(by weight loss)
- **Aerosol output:**  
0.866 ml (2ml, 1% (M/V). NaF)
- **Aerosol output rate:**  
0.102 ml/min (2ml, 1% (M/V). NaF)
- **Sound:** Less than 30dB



Reusable parts life	Medical cup, Mask, Mouthpiece: 6 months According as reliability test result – One time per day
Dimension (L × W × H):	45 × 54 × 122 mm

*The specifications may be changed without prior notice.*

## 12. SYMBOL INFORMATION

symbol	referent
	Read instructions before use
	Manufacturer's Name
	Article number
	Serial number
	Class II Equipment
	Type BF equipment
	Disposal for separate collection



CE mark

**IP22** Protection degree against ingress of water and solid material

*Manufacturing date decoded in SN number:  
the first two numbers is week  
the second two numbers is year*

## 13. LATEST REVISION

Date of issue: 27 February 2012

Latest revision: 2016/05/16



**B. Well Swiss AG**

Bahnhofstrasse 24, CH-9443 Widnau, Switzerland

**ISO9001 & ISO13485 Certified**

**This device complies with European Council Directive 93/42/EEC on Medical Devices**

# B.Well<sup>®</sup>

**B.Well Swiss AG**

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Switzerland