

# *MABISMist™ II*

## *Ultrasonic Nebulizer*

### *Guidebook*

**Model 40-270-000**

**Please read this guidebook  
completely before operating this unit.**



**TOLL-FREE CUSTOMER CARE HELPLINE:  
1-800-622-4714**

The MABISMist™ II Ultrasonic Nebulizer is an ultrasonic nebulizer that is intended for use in the treatment of asthma, COPD and other respiratory ailments in which an aerosolized medication is required during therapy. The MABISMist™ II Ultrasonic Nebulizer is not intended for use with Pentamidine. It is intended for single patient use.

Federal (U.S.A.) law restricts this device to sale by, or on the order of, a licensed physician.



*English • Spanish*

## Limited Three Year Warranty

Your MABISmist II Ultrasonic Nebulizer is guaranteed to be free of manufacturing defects for a period of three years from the date of purchase under normal use. This limited warranty does not apply to use in any clinical or commercial applications. If the unit fails to operate during the warranty period, return it postage prepaid along with \$5.00 for return shipping and insurance to: MABIS Healthcare Inc., Attn: Repair Department, 28690 N. Ballard Drive, Lake Forest, IL 60045. If MABIS Healthcare determines that the unit failed to operate due to a manufacturing defect, the unit will be repaired or replaced at the option of MABIS Healthcare. Repair or replacement of the unit is the sole remedy under this limited warranty. This warranty gives you specific legal rights, which vary from state to state. As a condition of this warranty, the enclosed warranty registration card must be completed and sent to us within 10 days of the purchase date.

This Limited Warranty constitutes MABIS Healthcare's only responsibility and obligation to repair and/or replace materials or components. We make no other express or implied warranties, arising by operation of law or otherwise, or any warranty of merchantability or fitness for a particular use or purpose whether or not the use or purpose has been disclosed to MABIS Healthcare in specifications, drawings or otherwise, and whether or not MABIS Healthcare's products are specifically designed and/or manufactured by MABIS Healthcare for the buyer's use or purposes, except for the limited warranty stated above. MABIS will not be responsible for any indirect, incidental, special, consequential, or punitive damages or other loss, including, but not limited to, damage to or loss of other property or equipment and personal injuries, whether to purchaser or others. MABIS shall in no event be liable to the purchaser for any amount in excess of the cost of repair and/or replacement of the unit.

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## Introduction

*Your Ultrasonic Nebulizer should be used under the supervision of a licensed physician and/or a respiratory therapist.*

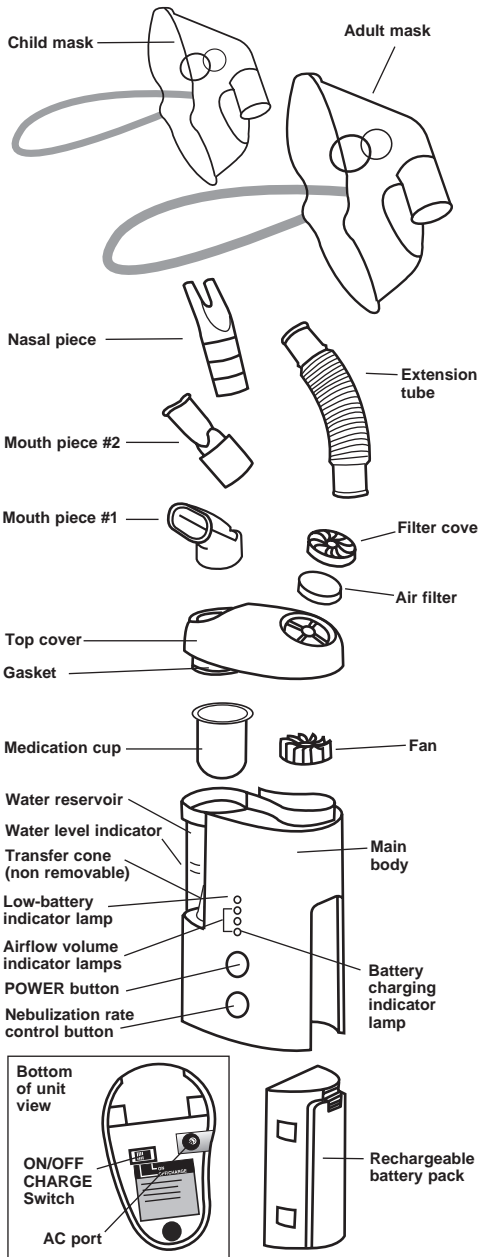
Thank you for purchasing an Ultrasonic Nebulizer. With proper care and use, your Nebulizer will provide you with many years of reliable treatments.

Your Ultrasonic Nebulizer has been designed to offer compact, portable and lightweight (under 1 lb.) convenience while receiving inhalation treatments. This unit requires ordinary tap or distilled water and your physician-prescribed medication to create an effective high frequency mist. Treatments can be administered discreetly thanks to advanced ultrasonic technology making your Nebulizer virtually silent during operation. An easy airflow volume control with triple settings allows full control of treatment levels as recommended by your physician and/or respiratory therapist.

This unit operates on standard AC power or battery pack. Treatments are delivered quickly, safely and conveniently making this unit ideal for all ages.

We encourage you to thoroughly read this guidebook to learn about the features of your Ultrasonic Nebulizer. Together with your physician and/or respiratory therapist, you can feel comfortable and confident knowing that you are obtaining the most effective inhalation treatments for your respiratory condition.

# Product Identification



This unit should be used only for (1) its intended purpose as described in this guidebook, and (2) with medications only under the supervision and instruction of your physician.

## READ THE FOLLOWING BEFORE USING

- To avoid electrical shock: Keep unit away from water • Do not handle the unit or power cord with wet hands • Do not immerse the AC adapter or unit in liquid • Do not use while bathing • Do not reach for a unit that has fallen into water—immediately unplug the unit.
- Do not use the unit if it has any damaged parts (including power cord or plug), if it has been submersed in water or dropped. Promptly send the unit for examination and repair.
- The unit should not be used where flammable gas, oxygen or aerosol spray products are being used.
- Keep the air vents open. Do not place the unit on a soft surface where the openings can be blocked.
- If the water reservoir or medicine cup is empty, do not attempt to operate the unit.
- Do not attempt to remove the transfer cone located in the base of the water reservoir.
- If any abnormality occurs, discontinue use until the unit has been examined and repaired.
- The unit should not be left unattended while plugged in.
- Do not use solutions other than water in the reservoir. It may damage the transducer.
- Do not tilt or shake the unit when in operation.
- Opening the cover during operation may cause a severe injury.
- Disconnect the unit from the electrical outlet before cleaning, filling and after each use.
- Do not use attachments unless recommended by the manufacturer.
- The unit should not be used for more than 30 minutes at a time.
- Wait 30 minutes before reusing the unit.

## Cautions

### Product Cautions

Please use general safety precautions when operating your Nebulizer.

### Operating Cautions

- Close adult supervision is highly recommended when this unit is used by children or invalids.

- Keep your eyes away from the output of medication mist.
- Change the water after each use.
- The maximum capacity of the medicine cup is 8 ml. and should not be overfilled.
- Dilute dense medications or medication volumes 2 ml. or less with distilled water or saline solution to obtain a volume of at least 4 ml.
- Do not use this unit while operating a vehicle.
- If any discomfort or abnormality occurs, stop using the unit immediately.

**Storage Cautions**

- Do not store the unit in direct sunlight, high temperature or humidity.
- Keep the unit out of reach of small children.
- Always keep the unit unplugged while not in use.

**Cleaning Cautions**

- Check the medication cup, air filter, masks, gasket, extension tube, mouth and nasal pieces and air filter before each use. Dirty or worn parts should be replaced.
- Do not immerse the unit in water. It may damage the unit.
- Disconnect the unit from the electrical outlet before cleaning.
- Clean all necessary parts after each use as instructed in this guidebook.

**Battery Cautions**

- Do not use the battery with equipment other than your MabisMist™ II Ultrasonic Nebulizer, or attempt to modify it for other use.
- Do not store the battery in direct sunlight, high temperature or high humidity.
- Avoid placing the battery on metal or wet surfaces or inside a metal box. This may short-circuit the battery's positive and negative contact causing the battery to heat up or explode.

**Cleaning Procedures**

It is important to clean your Nebulizer before the first time it is used and after each use. *Remember: Disconnect the unit from the electrical outlet and never immerse the unit in water.*

**Cleaning the parts:**

The mouth piece, nasal piece, gasket, masks, extension tube, cover, medicine cap, air filter cover, air filter, and fan should be cleaned

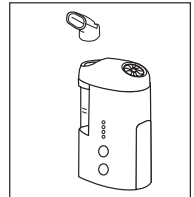
with a mild detergent or commercially available disinfectant. (Use a non-metal tool to carefully remove the air filter cover, air filter and fan.) Thoroughly rinse each part and allow to completely air dry before using.

**Cleaning the main body:**

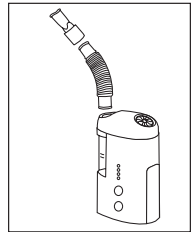
The main body should be cleaned with a soft cloth moistened with a non-abrasive cleanser and water.

**Five modes of medication delivery:**

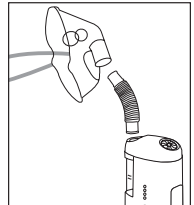
**Mouthpiece #1,**  
Connect mouthpiece to the cover.



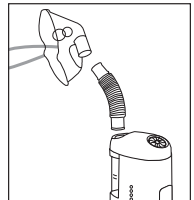
**Extension tube with mouthpiece #2,**  
Connect one end of the extension tube to mouthpiece #2. Connect the other end to the cover.



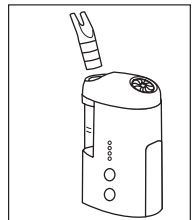
**Extension tube with adult mask,**  
Connect one end of the extension tube to the adult mask. Connect the other end to the cover.



**Extension tube with child mask,**  
Connect one end of the extension tube to the child mask. Connect the other end to the cover.



**Nasal piece,**  
Connect nasal piece to the cover.



## Operating Your Nebulizer

Follow the previous cleaning instructions prior to using your Nebulizer for the first time or after it has been stored for an extended period.

*Remember: Always unplug the Nebulizer and turn **off** the switch at the bottom before cleaning and filling and **after** each use.*

### To fill the water reservoir,

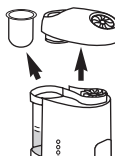


Fig. 1

1. Remove the cover by pulling straight up, Fig. 1. Remove the medicine cup if applicable.

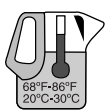


Fig. 2

2. Select either tap or distilled water\* that has a temperature range of 68°F - 86°F (20°C - 30°C), Fig. 2  
*\*Distilled water is preferred.*

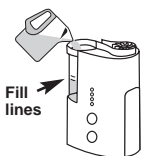


Fig. 3

3. Fill the water reservoir with tap or distilled water to the indicated level (between the 2 lines located inside the water reservoir), Fig. 3.

*Remember: Do not use solutions other than water in the reservoir. It may damage the transducer — Fill to the correct level.*

#### NOTE:

- The use of cool water (below 68°F or 20°C) will result in a lower rate of nebulization.
- The use of warm water (above 86°F or 30°C) will result in a higher rate of nebulization.

### To fill the medicine cup,

1. Place the medicine cup inside the water reservoir.
2. Pour the medicine directly into the medicine cup.
3. Replace the cover.

#### Remember:

- The maximum capacity of the medicine cup is 8 ml. and should not be overfilled.
- Dilute dense medications or medication volumes 2 ml. or less with distilled water or saline solution to obtain a volume of at least 4 ml.
- Only use medications under the instructions of your physician.

## Using the AC adapter or battery pack

Your Nebulizer operates by use of the AC adapter or battery pack, both included with your Nebulizer.

### Using the AC adapter,



Fig. 4

- 1) Insert the adapter plug into the unit's AC port, Fig. 4.
- 2) Plug the adapter into a standard AC outlet.

NOTE: It is not necessary to install the battery pack when using AC voltage. However, you may wish to install the battery pack for stability and storage purposes.

### Using the battery pack,

Your Ultrasonic Nebulizer can operate with the use of a rechargeable battery when AC power is not available. The life of the battery is approximately 2 years. However, battery life will vary depending on usage, storage and charging conditions.

- 1) Install the battery pack by sliding it into the bottom right side of the Nebulizer, Fig. 5.
- 2) Flip the switch at the bottom to the "OFF/CHARGE" position.
- 3) Connect the adapter plug to the unit as described above, "Using the AC adapter".

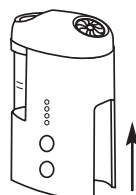


Fig. 5

- 4) To charge the battery, plug the adapter into a standard AC outlet, based on the following:

#### Charging Time

1st Time use:	24 hours
Thereafter:	4-12 hours

- 5) Unplug the adapter after the battery is fully charged.

#### IMPORTANT:

- For first time use or after storing the battery for a period of time, charge the battery at least 24 hours. Thereafter, it is only necessary to charge 4 to 12 hours depending on the length of usage.
- A fully charged battery will last for 20-30 minutes of continuous use.

- To prolong the life of the battery, only charge the battery when the low-battery light flashes.

**NOTE:**

Your Nebulizer is equipped with two battery lamps. Both are positioned on the front of the unit.

- 1) A flashing red battery light, Fig. 6, indicates proper AC connection and shows that the battery is being charged.

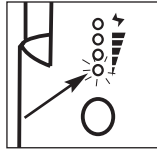


Fig. 6

**NOTE:** This lamp has a second function during operation. It indicates the lowest nebulization level, Fig. 10.

- 2) If this lamp, Fig. 7, changes from green to red during use, the rate of nebulization will decrease, then cease, indicating that the battery needs to be charged. If this occurs,

- (1) Press the POWER button to turn off.
- (2) Flip the switch at the bottom to the OFF/CHARGE position.
- (3) Replace with a fully charged battery or connect to the AC adapter.
- (4) Flip the switch at the bottom to the ON position.
- (5) Press the POWER button and continue treatment.

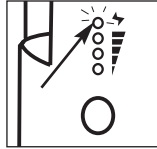


Fig. 7

**To start the unit,**

**IMPORTANT!** Your unit has two ‘POWER’ switches. One on the front of the unit, Fig. 8, and the other on the bottom, Fig. 9.

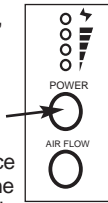


Fig. 8



Fig. 9

1. Place the unit on a solid, flat dry surface making sure that the water reservoir and medicine cup have been properly filled and the mouth nozzle or other attachments are properly connected to the cover.
2. Flip the switch at the bottom to the ‘ON’ position. The LED indicator on the front of the unit will illuminate.
3. Press the ‘POWER’ button.

**To adjust the airflow, and nebulizer rate,**

1. Your Ultrasonic Nebulizer has 3 airflow settings: High, Medium and Low.

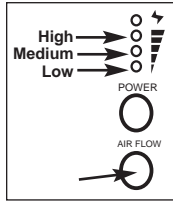


Fig. 10

2. Based on instructions from your physician and/or respiratory therapist, press the airflow button to adjust the airflow volume. The Airflow Volume Indicator Lights will show the level (high, medium or low) selected, Fig. 10.

**To begin a treatment,**

1. Follow the instructions provided by your physician and/or respiratory therapist.
2. Your Nebulizer is designed to start at a lower atomization rate in the beginning and will become stronger after a few minutes.

**NOTE:** Although many medications are delivered within six minutes, thicker medications will take longer to nebulize. The viscosity of the medication and airflow setting may result in longer treatment times and reduced battery life between recharges.

*Remember:*

- Keep your eyes away from the output of medication mist.
- If any discomfort or abnormality occurs, stop using the unit immediately.
- Do not tilt or shake the unit when in operation.
- Opening the cover during operation may cause a severe injury.

**To end a treatment,**

1. When the treatment has ended, press the POWER button. Position the switch at the bottom to the OFF/CHARGE position. Otherwise, your unit will automatically shut off after approximately 10 minutes of non-use.
2. Unplug the adapter from the outlet and detach the adapter plug from the unit’s AC port.
3. Dispose excess medication and water before disconnecting the battery.
4. Allow the unit to cool — approximately 20-30 minutes.

*Remember:*

- The unit should not be used for more than 30 minutes at a time.
- Wait 30 minutes before reusing the unit.

### After every use,

1. Allow the unit to completely cool.
2. Remove the cover.
3. Carefully remove the medicine cup and pour out remaining medication.
4. Empty the water reservoir.
5. Gently wipe the water reservoir and transfer cone with a soft, lint-free cloth. Remember, the transfer cone should not be removed.
6. Follow the cleaning procedures provided in this guidebook.

### Troubleshooting

If any abnormality occurs during use, please check and correct the following:

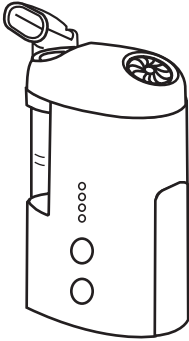
<b>Condition</b>	<b>Correction</b>
Unit does not operate when POWER button is pressed.	Check the AC adapter connection to the outlet and/or check the AC plug to the unit's AC port.  Make sure that the switch at the bottom of the unit is in the "ON" position.  Check that the water reservoir is filled to the correct level.  If using the optional battery pack, check that the battery is completely charged. Check that the battery is mounted correctly to the unit.
No misting or low rate of misting	Check that there is medication in the medicine cup.  Check the medication cup for damage.  Check that the transducer is clean.
Fan is not working properly	Check that the fan is firmly and properly mounted to the motor shaft.
A flashing red light on the bottom lamp when the AC adapter is connected.	This is normal (see Using the Battery Pack). The flashing light indicates proper AC connection and will change to green when the battery is fully charged.
The top light changed from green to red during nebulization.	The battery needs to be charged. Nebulization will decrease and then cease.

### Replacement Parts

Replacement parts are available through your local retailer or they can be ordered by mail. See separate replacement part list for details.

## Product Specifications

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### Unit Specifications

Name and model number	MABISMist™ II Ultrasonic Nebulizer, 40-270-000
Power	100-120 VAC or 220-240 VAC 50/60 Hz
Power Consumption	Approximately 10W
Ultrasonic Frequency	2.5 MHz
Nebulization:	3 speed adjustable
Partical Size	5 µm MMAD
Medicine Cup Capacity	Approximately 8 ml. maximum
Automatic Shut-off	Approximately 10 minutes
Dimensions	3-7/16" x 2-1/16" x 5-5/8"
Weight	Approximately 8.1 oz. (12.4 oz. with battery pack)
Accessories	AC adapter, Carrying Case, 5 Reusable Medicine cups, Adult and Child Masks, Extension tube, Nasal piece, Mouthpiece #1, Mouthpiece #2, Rechargeable battery



### Battery Specifications

Name and Model Number	MABISMist™ II Ultrasonic Nebulizer Rechargeable Battery, 40-277-012
Battery Type	Ni-MH
Battery Voltage	12 VDC
Output Voltage	12 VDC
Charging Voltage	12 VDC
Charging Current	40-100 mA
Charging Time	Minimum 24 hours first time; 4-12 hours thereafter depending on usage
Capacity	480 mAh/12 VDC (20-30 minutes continuous use)
Operating Temperature	32° F - 112° F (0°C - 45°C)
Storage Temperature	0° F - 112° F (-18°C - 45°C)
Dimensions	1-7/8" x 1-1/16" x 3-5/16"
Weight	Approximately 4.3 oz.

Specifications are subject to change without notice.



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