

CITIZEN™

INSTRUCTION MANUAL FOR ULTRASONIC NEBULIZER

MODEL CUN60



FEATURES

- ★ Handy design - with built-in detachable battery pack; compact and light-weight.
- ★ Easy to use - uses water as ultrasonic conducting medium, no gel required.
- ★ Silent operation - thanks to the ultrasonic vibration technology.
- ★ 3-speed nebulization rate control - provides optimal treatment for all kinds of medication with different density.
- ★ Built-in timer - automatically shuts off after 10-minute use.
- ★ Electromagnetic compatibility - complies with EN60601-1-2 requirement as specified in EC directive 89/336/EEC.

IMPORTANT SAFEGUARDS

READ ALL INSTRUCTIONS CAREFULLY BEFORE USE

PREPARATION

- ★ Use the equipment only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
- ★ Use the equipment with medications only under the instruction of your physician.
- ★ Do not use the equipment if it has any damaged parts, or it has fallen into water. Return the product to a service center for examination and repair.
- ★ Always unplug this product before filling and after use.
- ★ To use the equipment for the first time, or after storing it for an extended period, be sure to clean and sterilize all necessary parts as described on page 8.
- ★ Do not handle the power cord with wet hands or immerse the AC adapter. An electrical shock may result.
- ★ The medication cup, mouth nozzle and air filter should be checked before each use. Replace with a new one if they are dirty or worn out.

- ★ Do not fill medication cup over 8 ml or the nebulization will be very weak.

OPERATION

- ★ Close supervision is required when this equipment is used by children or invalids.
- ★ Stop using the equipment immediately if any abnormality occurs.
- ★ Keep your eyes away from the output of medication mist.
- ★ Do not use the equipment where flammable gas is being used.
- ★ Never operate the equipment with empty water tank or medication cup.
- ★ Do not use solutions other than water for the tank. It may damage the transducer. Change the water after each use.
- ★ Do not tilt or shake when operation.

- ★ Never open the clear cover during operation. It may cause a severe injury.
- ★ Do not use the equipment for more than 30 minutes. Do not reuse within 30 minutes.
- ★ Some medications may not have good atomization. Check with the physician or manufacturer of medication.

CLEANING

- ★ Never immerse the equipment in water. It may damage the unit.
- ★ Clean all necessary parts after each use, as described on page 8.

STORAGE

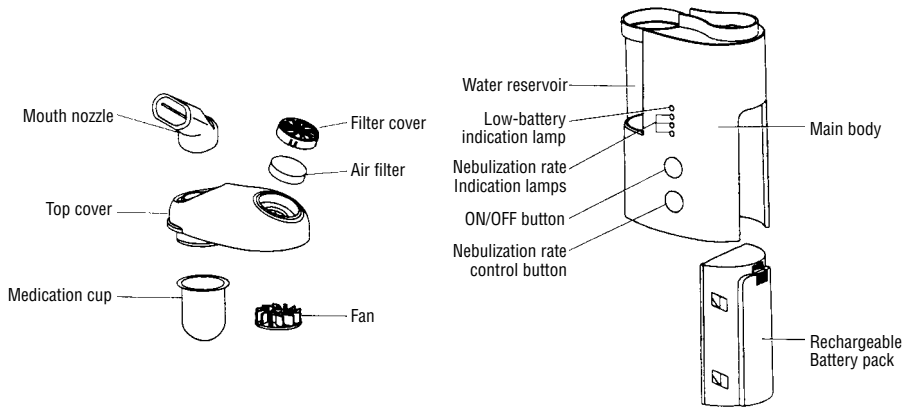
- ★ Do not store the unit under direct sunlight, high temperature or humidity.
- ★ Keep the unit out of reach of small children.
- ★ Always keep the unit unplugged while not in use.

Manufacturer:

Name: Vega Technologies Inc.
Address: 11F-13, 100 Chang-Chan Road,
Taipei, Taiwan



PARTS DESCRIPTION



OPERATION

- ★ To use the equipment for the first time, or after storing it for an extended period, be sure to clean and sterilize all necessary parts as described on page 8.
- ★ Always unplug this product and turn off the switch at bottom before filling and after use.

1. FILL WATER RESERVOIR

- a. Remove the top cover and medication cup.
- b. Fill water reservoir with tap water or distilled water to correct level (between 2 lines in water reservoir).

Note:

1. Use water at room temperature (20 - 30°C).
2. Use of cool water (below 20°C) will result lower nebulization rate.
3. For higher nebulization rate, use warm water (over 30°C).

Caution:

1. Do not use solutions other than water for the reservoir. It may damage the transducer.
2. Make sure the water level is between 2 lines in the reservoir.

2. FILL MEDICATION CUP

- a. Replace medication cup on water reservoir.
- b. Fill medication directly into medication cup.
- c. Replace top cover.

Caution:

1. Do not fill more than 8 ml, otherwise the nebulization rate will be very weak.
2. Use medications only under instructions of your physician.

3. PLUG IN THE POWER CORD

Follow the correct sequence below.

- a. First connect adapter's plug to the unit's power receptacle.
- b. Then plug the adapter into an AC outlet.

Note:

1. Unit can also be operated with battery pack only.
2. As soon as the AC adapter is connected to unit's receptacle, the power from battery pack will be cut off.

4. TURN ON THE POWER

- a. Make sure water reservoir and medication cup are properly filled, and the unit is placed on a flat and dry surface.
- b. Turn the switch at bottom of unit to "ON" position. The LED indicator should be lit.
- c. Press the On/Off button once. The unit will start working with "high" nebulization rate. The corresponding "nebulization rate indication lamp" will illuminate.

5. ADJUST NEBULIZATION RATE & BEGIN TREATMENT

- a. Press the "nebulization rate control button" to adjust the nebulization rate at high, medium or low speed, which will be illuminated by corresponding indication lamp.
- b. Begin treatment according to your physician's instructions.

Caution:

Stop operation immediately if any abnormality is noted.

6. FINISH OPERATION

- a. Press the On/Off button to stop operation.
- b. Turn the switch at bottom to "OFF/CHARGE" position.
- c. Unplug the adapter from AC outlet first and then from unit's receptacle.

Note:

1. Stop operation when the medication is finished.
2. Operation will stop automatically after 10-minute continuous use.
3. To reuse, wait for approx. 10 minutes for the unit to cool down.
4. The switch at bottom must be turned to "OFF/CHARGE" position to save battery power and avoid unwanted operation against accidental press of the on/off button.

CLEANING

- ★ Be sure to clean and sterilize all necessary parts after each use.
- ★ Always unplug this product before cleaning.
- ★ Never immerse the equipment in water. It may damage the unit.

1. DISPOSE EXCESS MEDICATION AND WATER

- a. Remove top cover.
- b. Pour remaining medication out of cup.
- c. Drain water from water reservoir.



Caution:

Do not touch water, it is hot after use.

2. CLEANING

- a. Nose piece, mouth nozzle, extension tube, mask, top cover, medication cup, air filter & filter cover: Clean with mild detergent or commercially available disinfectant. Rinse all parts thoroughly and let air dry.
- b. Main body: Clean with a soft cloth moistened with water and non-abrasive cleanser.

SPECIFICATIONS

Power:	220-240VAC 50/60Hz
Power consumption:	Approx. 10W
Ultrasonic frequency:	2.5MHz
Nebulization rate:	3-speed adjustable, 0.2 - 0.7 ml/min. depending on medication density
Particle size:	5 μ m MMAD
Medication cup capacity:	Approx. 8 ml max.
Transport & storage condition:	-10 ~ 50°C; 45 ~ 85%
Safety classification:	 Type B apparatus;  Class II insulation
Auto shut-off timer:	Approx. 10 min.
Dimensions (L x W x H):	88 x 53 x 143 mm
Weight:	Approx. 230g (350g with battery pack)
Accessories:	Nose piece Mouth nozzle Extension tube Adult & child masks AC adapter Medication cup (5 pieces) Soft carrying case

Specifications subject to change without notice.

TROUBLESHOOTING

★ Should any problem persist after you have made the following checks, return the product to a nearest service center for examination and repair.

Symptom	Cause and/or solution
Unit does not operate when ON/OFF button is depressed.	• Check that AC adapter is plugged in firmly.
	• Check that switch at bottom is turned ON.
	• Check that water reservoir is filled to the correct level.
	• If using with battery only, check that battery pack is firmly attached to the unit.
	• Check that battery is fully charged.
No atomization or low atomization rate	• Check that there's medication in the cup.
	• Check that the medication cup is not broken or transfigured.
	• Check medication level in medication cup.
	• Check that transducer is clean.
Fan is not working properly	• Check that the fan is firmly and properly mounted on the motor shaft.

RECHARGEABLE BATTERY

- ★ The RB60L rechargeable battery is used to provide power for NB-08L nebulizer while AC power is not available or not used.
- ★ Do not use the battery with equipment other than RB60L nebulizer, or attempt to modify it for other use.
- ★ Do not store the battery under direct sunlight, high temperature or humidity.
- ★ Do not put the battery on any metal or wet surface, or inside any metal box. It might short-circuit the battery positive & negative contacts and cause the battery to heat up or explode.
- ★ The life of the battery is approx. 2 years. However, battery life differs according to the usage and charging conditions.
- ★ To save battery power and avoid accidental operation, always turn the switch at bottom at “OFF/CHARGE” while not in use.

1. CHARGING THE BATTERY

- a. Install the battery pack by sliding it into the right-bottom of nebulizer.
- b. Make sure the switch at bottom is turned to “OFF/CHARGE” position.
- c. Connect adapter’s plug to nebulizer’s power receptacle.
- d. Plug the adapter into an AC outlet.
- e. The required charging time is 24 hours for the first time of use, and 4 to 12 hours thereafter depending on duration of usage. It is recommended that the battery is charged after each use, and let charged overnight. A fully charged battery will last for approx. 30 minutes of continuous use.

2. USING THE BATTERY

- a. Turn the switch at bottom of nebulizer to “ON” position. The LED indicator will be lit.
- b. Start using the nebulizer as described on page 6.
- c. After operation is finished, turn the switch at bottom to “OFF/CHARGE” position to save battery power.
- d. To remove battery pack, press the grooved area and release it from nebulizer by sliding down.

Note:

The switch at bottom of unit is designed to avoid unwanted operation against accidental press of on/off button while the unit is stored in carrying case and the battery is installed.

RECHARGEABLE BATTERY

Battery type:	Ni-MH
Battery voltage:	12VDC
Charging current:	40 ~ 100 mA
Charging time:	Minimum 24 hours first time; 4 ~ 12 hours thereafter depending on duration of usage
Capacity:	480 mAh/12VDC (approx. 30-minute continuous use)
Operating temperature:	0 ~ 45°C (32 ~ 112°F)
Storage temperature:	-18 ~ 45°C (0 ~ 112°F)
Dimensions (L × W × H):	47 × 28 × 84 mm
Weight:	Approx. 125 g

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