

evo

# Aeroneb<sup>®</sup>Go

Micropump Nebulizer



*Instruction  
Manual*

## **INTRODUCTION**

Be sure to read these instructions fully before use.

Thank you for purchasing the Aeroneb® Go Micropump Nebulizer. Certain conditions such as asthma, COPD (chronic obstructive pulmonary disease) and cystic fibrosis require that prescribed liquid medication be turned into a fine mist, called an aerosol, and then inhaled into the lungs. The Aeroneb Go turns liquid medication into an aerosol, which you can then inhale through a mouthpiece or an aerosol mask into your lungs.

The Aeroneb Go uses Aerogen's unique OnQ® Aerosol Generator, which is unlike any other nebulizer technology available. When you turn on your nebulizer, OnQ pumps liquid through tiny holes in a wafer-thin metal plate to create a soft mist aerosol.

The Aeroneb Go, for use by pediatric and adult patients, is intended to aerosolize physician-prescribed solutions for inhalation that are approved for use with a general-purpose nebulizer. Designed with your needs in mind, the Aeroneb Go is lightweight, compact and silent. You can power the device with the AC Powered Controller or with the Battery Powered Controller that uses three (3) "AA" name brand disposable alkaline or lithium batteries.

**CAUTION:** Federal law restricts this device to sale by or on the order of a physician.

Operate this unit only as instructed by the Aeroneb Go Instruction Manual. Thoroughly read and understand the information contained in these instructions for future reference.

**SAVE AND REFER TO THESE INSTRUCTIONS.**

## **IMPORTANT SAFEGUARDS**

When you use electrical products, especially around children, always follow basic safety precautions.

**READ ALL INSTRUCTIONS BEFORE YOU USE YOUR NEBULIZER**

**WARNINGS -**

Do not share your Aeroneb Go Nebulizer with others. It is intended for use by a single user. If more than one person uses it, there is a risk of spreading infectious illness.

Always unplug this product immediately when not in use.

Adult supervision is required when this product is used by individuals who require special assistance, such as children.

## WARNINGS (cont.)-

Use this product only for inhalation treatments as described in this manual.

Do not use components or attachments that are not recommended by EVO Medical Solutions. Refer to the Accessories section in this manual.

Never operate this product if any of the parts are not working properly or have been damaged.

Do not operate the Aeroneb Go Nebulizer in the presence of anesthetic gases which might be flammable when they come in contact with air, oxygen or nitrous oxide.

Do not use the Aeroneb Go Nebulizer with anesthetic breathing systems or lung ventilator breathing systems.

Do not use this product while you are taking a bath or shower.

Do not place or store this product where it can fall or be pulled into a tub or sink.

Do not place or drop this product into water or any liquid when it is plugged into a power source.

Keep this product and cords away from heated surfaces.

Be sure the device has been properly cleaned before each use to avoid possible contamination.

Failure to clean device according to instructions may compromise performance or result in the device not working properly.

Keep power cord tidy so that it cannot become disconnected and no one can trip over it.















Do not use rechargeable batteries. The green light that flashes to indicate a low battery may not turn on properly, and the Aeroneb Go may stop working without warning.

After proper cleaning, if it takes longer than 12 minutes to deliver 3mL of medication, the Medication Cup with OnQ Aerosol Generator should be replaced.

The user should ensure that exhaled medication is directed away from bystanders.

## CLASSIFICATIONS AND MARKINGS

The symbols that appear on the Aeroneb Go Nebulizer and its accessories are described in the table below:

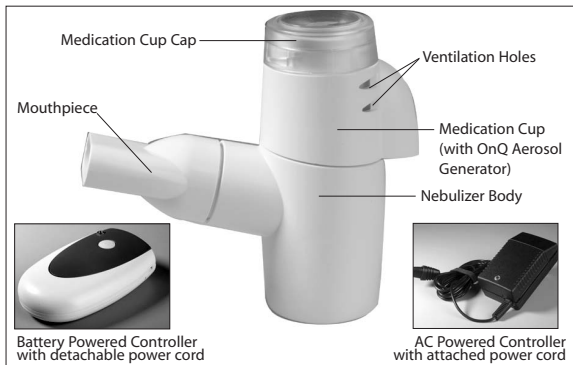
Symbol	Meaning
	Attention, consult accompanying documents
	Class II equipment per IEC 60601-1
	Type BF equipment per IEC 60601-1
	Classified with respect to electric shock, fire, mechanical and other specified hazards in accordance with UL 2601-1 and CAN/CSA C22.2 No 601.1. Medical Equipment Certified for Canada.
<b>SN</b>	Serial number
<b>REF</b>	Model Number
	Manufacturer
	Input
	Output
	DC Voltage
	AC Voltage
	Power On/Off
	Fragile – Handle with Care
	Keep Dry
	Storage temperature limits; -20°C to 60°C
<b>IPX1</b>	Drip Proof as per IEC 529
	This device complies with the requirements of the Medical Devices Directive (93/42/EEC).
Rx Only	Federal law restricts this device to sale by or on the order of a physician

## IMPORTANT CAUTION

As with any mechanical device, this product may become unusable due to an electrical outage, battery depletion, or mechanical failure. We recommend that you have spare batteries and have a backup device available to you.

If this product is being used to treat a life threatening condition, a backup device is necessary.

## IMPORTANT PARTS



## UNIT ASSEMBLY AND USAGE

Before you use your Aeroneb Go for the first time, after each use, or after extended storage, clean all parts as described on page 7.

### ASSEMBLY

#### PRIOR TO ASSEMBLY:

Check all parts for visible damage. Replace any damaged parts before you use the Aeroneb Go Nebulizer. In case of missing parts, malfunction or damage, contact your local Aeroneb Go representative or EVO Medical Solutions.



1. Connect the Medication Cup (containing the OnQ Aerosol Generator) to the Nebulizer Body.

**NOTE:** Make sure the Aeroneb Go is unplugged before you add medication to the Medication Cup.



2. Fill the Medication Cup with the prescribed nebulizer medication. Never pour more than 6 mL into the cup. The continuous line on the inside surface of the cup indicates the maximum filling level.

**CAUTION:** To avoid damage to the nebulizer unit, do not use a syringe with needle.



3. Securely place Cap on Medication Cup.



4. Attach Mouthpiece to Nebulizer Body. If an optional Mask is used, then first attach the Mask Connector Elbow to Nebulizer Body before attaching the Mask.

NOTE: Masks are an optional accessory and may be purchased through your Aeroneb Go Dealer.

## TO OPERATE WITH AC POWERED CONTROLLER



1. Insert the power cord connector into the back of the Nebulizer Unit.



2. Plug the AC Powered Controller into a standard AC electrical outlet using the appropriate outlet adapter. **Visually verify that aerosol is coming out of the mouthpiece or mask to indicate that the device is functioning properly.**



3. Place the mouthpiece between your teeth, with your lips firmly sealed around the mouthpiece. If you use an aerosol mask, place the mask over your mouth and nose. Breathe in and out slowly through your mouth until aerosol formation stops. Do not cover the ventilation holes during use.





4. Unplug the AC Powered Controller from the wall to turn it off.

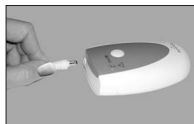
## TO OPERATE WITH BATTERY POWERED CONTROLLER



1. Turn the Battery Powered Controller upside down. Slide the battery cover in the direction of the arrow to remove the lid. Put in three (3) "AA" name brand disposable alkaline or lithium batteries, matching them to the plus (+) and minus (-) markings inside the Battery Powered Controller. Replace the cover on the Battery Powered Controller and slide the cover until it locks in place. You can expect approximately two (2) hours of operation from name brand batteries and up to six (6) hours with standard (not rechargeable) lithium batteries.



2. Insert the power cord connector into the back of the Nebulizer Unit.



3. Connect the power cord to the Battery Powered Controller.



4. Turn on the nebulizer by pressing the "on/off" button on the Battery Powered Controller. You will see a green light on the Battery Powered Controller light up. **Visually verify that aerosol is coming out of the mouthpiece or mask to indicate that the device is functioning properly.**

NOTE: (1) If you are using batteries and the green light is flashing, your batteries are low. You may finish your treatment, and then replace the three "AA" batteries immediately. (2) If the green light only comes on while depressing the button, immediately replace the three "AA" batteries.



5. Place the mouthpiece between your teeth, with your lips firmly sealed around the mouthpiece. If you use an aerosol mask, place the mask over your mouth and nose. Breathe in and out slowly through your mouth until aerosol formation stops. Do not cover the ventilation holes during use.



NOTE: (1) The battery controller is designed to shut off after 20 minutes. If medication still remains in the cup, then simply press the "on/off" button on the Battery Powered Controller to continue with your treatment. (2) Battery life is dependent upon not only the number of treatments per day but also the length of each treatment. We recommend that you always have a spare set of new, unused batteries available to you.



6. Press the "on/off" button on the Battery Powered Controller again to turn the nebulizer off.

## CLEANING AND STORING YOUR AERONEB GO

To optimize the performance and life expectancy of your Aeroneb Go device, we recommend you follow these cleaning instructions carefully.

### AFTER EVERY USE:

Disconnect the power source before you take the nebulizer apart to rinse it.

1. **Rinse the Nebulizer Unit** (Medication Cup and Cap, Nebulizer Body, and Mouthpiece or Mask Connector Elbow and Mask) **under running hot tap water after every use.**
2. Shake off excess water, and allow parts to air dry on a clean, dry towel, out of the reach of children.
3. Make certain that all cleaned parts are completely dry before you store or use them.

CAUTION: Do not use vinegar to clean your nebulizer unit.



#### DAILY:

Disconnect the power source before you take the nebulizer apart to clean it.

1. Wash the Nebulizer Unit (Medication Cup and Cap, Nebulizer Body, and Mouthpiece or Mask Connector Elbow and Mask) by hand in a solution of warm water and mild liquid dishwashing soap. Use only soap intended for washing dishes by hand. Do not use dishwasher detergent. Do not leave parts soaking.
2. Rinse all pieces thoroughly under running hot tap water. Make sure that no soap is left on any of the parts.
3. Shake off excess water, and allow parts to air dry on a clean, dry towel, out of the reach of children.
4. Make certain that all cleaned parts are completely dry before you store or use them.

#### WARNING:

Failure to clean device according to instructions may compromise nebulizer performance or result in device not working properly.

#### OPTIONAL DISINFECTION:

If you would like to disinfect your nebulizer, you may use the medical disinfectant described below, available from your supplier.

Use only Control III Laboratory Germicide (Maril Products Inc.) or an equivalent medical disinfectant to disinfect your nebulizer.

1. First, clean the Nebulizer Unit as described in the daily cleaning section, following steps 1-3.
2. Disinfect the Nebulizer Unit parts (Medication Cup and Cap, Nebulizer Body, and Mouthpiece or Mask Connector Elbow and Mask) according to the manufacturer's instructions for the medical disinfectant.
3. Clean the Nebulizer Unit again as described in the daily cleaning section to remove any residual Control III.
4. Shake off excess water, and allow parts to air dry on a clean, dry towel, out of the reach of children.
5. Make certain that all disinfected parts are completely dry before you store or use them.

#### CAUTION:

- Never clean your Nebulizer Unit with vinegar.
- Never clean your Nebulizer Unit with solvents, chemicals, alcohol or abrasive cleaners.
- Do not microwave or boil any parts.
- Do not use brushes, sharp tools or abrasive cloths that could scratch or damage the surfaces.

- Do not clean parts in a dishwasher.
- Store the assembled Aeroneb Go in the carrying case.
- Do not store the Aeroneb Go in a location where it is exposed to direct sunlight, extreme heat or cold, dust or water. Store out of the reach of children.
- Before storing your Aeroneb Go for a long time, remove the batteries from the Battery Powered Controller and store them separately. If you do not take the batteries out, they may leak and cause your nebulizer to stop working.
- Follow local laws and recycling plans regarding disposal or recycling of components, batteries and packaging.

## TROUBLESHOOTING GUIDE

If you have difficulty operating your Aeroneb Go, check the following points:

With AC Powered Controller

**CHECK:** Check that the AC Powered Controller is plugged correctly into a working outlet.

**REMEDY:** Insert the plug into a working outlet and verify that the green light on the controller is lit.

**CHECK:** Check that the AC Powered Controller cord is connected properly to the nebulizer.

**REMEDY:** Connect the cord properly to the nebulizer.

With Battery Powered Controller

**CHECK:** Check that the batteries are inserted correctly.

**REMEDY:** Using the markings under each battery location, place each battery in the Battery Powered Controller. Match (+) and (-).

**CHECK:** Check to see if the green light is flashing.

**REMEDY:** Replace the batteries or use the AC Powered Controller.

**CHECK:** Check that the Battery Powered Controller cord is connected properly to the nebulizer and to the Battery Powered Controller.

**REMEDY:** Connect the cord properly to the nebulizer and the Battery Powered Controller.

With Either Controller

**CHECK:** Check that there is medication in the Medication Cup.

**REMEDY:** Fill the Medication Cup with prescribed medication.

**CHECK:** Check that the Aeroneb Go has been properly cleaned.

**REMEDY:** Clean the Aeroneb Go Nebulizer Unit. Refer to page 7.

If above remedies do not work, call your local supplier.

## **ELECTROMAGNETIC SUSCEPTIBILITY**

This device meets the requirements of IEC 60601-1-2 which describes requirements for electromagnetic compatibility (EMC) of medical devices. This includes immunity to radio frequency electric fields and electrostatic discharge, in addition to the other applicable requirements of the standard. Compliance with EMC standards does not mean a device has total immunity; certain devices (cellular phones, pagers, etc.) can interrupt operation if they are used near medical equipment.

## **SPECIFICATIONS**

### **POWER SOURCES:**

AC Powered Controller: 100-240 VAC, 28-15 mA, 50-60 Hz

Battery Powered Controller: 4.5 VDC (3 "AA" disposable batteries), 350 mA

### **POWER CONSUMPTION:**

Less than 2 watts

### **APPROXIMATE WEIGHT:**

Aeroneb® Go Nebulizer Unit: 60 g (2 ounces)

AC Powered Controller: 180 g (6.5 ounces)

Battery Powered Controller with batteries: 260 g (9.3 ounces)

### **SOUND LEVEL:**

<35 dBA at 1 meter

### **APPROXIMATE DIMENSIONS:**

Aeroneb Go Nebulizer Unit (assembled):

40.0 x 105.0 x 93.0 mm (1.6 x 4.1 x 3.7 inches)

AC Powered Controller:

51.0 x 46.0 x 87.0 mm (2.0 x 1.8 x 3.4 inches)

Battery Powered Controller:

70.0 x 110.0 x 32.0 mm (2.8 x 4.3 x 1.3 inches)

**RECOMMENDED OPERATING ENVIRONMENT:**

Temperature range: 5°C to +45°C (+41°F to +113°F)

Atmospheric pressure: Greater than 697 mbar

Humidity: up to 95% relative humidity

**RECOMMENDED TRANSPORT AND STORAGE ENVIRONMENT:**

Temperature range: -20°C to +60°C (-4°F to +140°F)

Atmospheric pressure: 450 to 1100 mbar

Humidity: up to 95% relative humidity

**PERFORMANCE:**

Aerosol flow rate: Greater than 0.3 mL per minute

Average particle size: 4.6 microns volume median diameter

(albuterol) 3.1 microns mass median aerodynamic diameter

Medication Cup capacity: Maximum of 6 mL.

Average pneumatic resistance @60 L/min: 2.2 cm/L/sec

Rebreathed volume with mouthpiece: 46 mL

NOTE: The temperature of the medication may rise to 10°C (18°F) above ambient temperature during normal use.

Performance may vary depending on the type of drug you use and may not apply to drugs not approved for general-purpose nebulizers such as suspensions or drugs with high viscosity. For additional information contact evo Medical Solutions or your drug supplier.

**REPLACEMENT PARTS AND ACCESSORIES:**

PART	REORDER NUMBER
Medication Cup Cap	21076
Medication Cup (with OnQ Aerosol Generator) and Cap	21498
Nebulizer Body	21073
Mouthpiece	21074
AC Powered Controller*	21099
Battery Powered Controller	21105
Battery Powered Controller Cable	21098
Mask Connector Elbow (US)	21089
Mask Connector Elbow (IN)	21090
Carrying Case	21088
Instruction Manual*	21495

To order replacement parts or accessories, visit your local home medical equipment dealer or pharmacy.

\*Contact your local supplier for reorder number specific for your geographical region.

If you have any questions or problems regarding your Aeroneb® Go nebulizer, contact your local home medical equipment dealer or pharmacy.

## WARRANTY

eVO Medical Solutions warrants the Aeroneb Go AC Wall Controller and Battery Powered Controller to be free from defective workmanship and materials for a period of two years from the date of purchase. The Nebulizer unit shall be warranted for a period of one year from the date of purchase. Check with your dealer for more details. This warranty is limited to the original purchaser of the Aeroneb Go Nebulizer. Any defective part or assembly will be repaired or replaced, at the sole discretion and determination of eVO Medical Solutions if the unit has not been misused or tampered with during the warranty period. Shipping charges, if any, shall be paid by the purchaser.

Note: There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to the duration of the express limited warranty and to the extent permitted by law and all implied warranties are excluded. This warranty does not cover providing a loaner nebulizer, compensating for costs incurred for nebulizer rental, or labor costs incurred in repairing or replacing defective part(s).

OnQ® Aerosol Generator  
manufactured by:  
Aerogen, Inc.  
2071 Stierlin Court, Suite 100  
Mountain View, CA 94043  
USA  
[www.aerogen.com](http://www.aerogen.com)



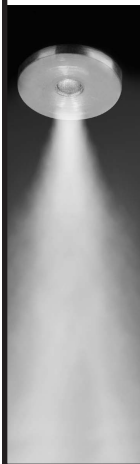
eVO Medical Solutions  
2636 289th Place  
Adel, IA 50003-8021  
USA

Featuring Aerogen®OnQ® micropump, trusted technology used in hospitals worldwide. For delivery of any nebulizer solution approved for use with a general purpose nebulizer.

# OnQ®



**technology that produces liquid aerosol in a manner unlike any other!**



## **Fast**

Rapid treatment times.

## **Simple**

Hassle-free set-up and operation, quick cleaning. Easy to hold, ultra-light 2 oz. handset.

## **Efficient**

Delivers a high-quality respirable aerosol. Aerosolizes down to the last drop – minimizes medication waste.

OnQ® Aerosol Generator  
manufactured by:  
Aerogen, Inc.  
2071 Stierlin Court, Suite 100  
Mountain View, CA 94043  
USA  
[www.aerogen.com](http://www.aerogen.com)



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