



Compressor Nebulizer

Model UN-011

Instruction Manual
Original

ENGLISH

Manuel d'instructions

FRANÇAIS

Manual de Instrucciones

ESPAÑOL

Manuale di Istruzioni

ITALIANO

使用手冊

中文

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ENGLISH

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1. DEAR CUSTOMERS

Thank you for purchasing the UN-011 Compressor Nebulizer.

It is a compact medical device designed to deliver the medication prescribed by your doctor.

The compressor creates a stream of air that travels through the clear tubing to the nebulizer which generates a medicinal mist of particles, small enough to reach the furthest parts of your lungs, to provide maximum benefit for the treatment of asthma, allergies and other respiratory disorders.

Your Compressor Nebulizer should be used only as directed. Do not use this device for anything other than as prescribed by your doctor.

Before use, read this instruction manual thoroughly.

2. PRELIMINARY REMARKS

- This device conforms to the European Directive 93/42 EEC for Medical Products. This is proved by the CE conformity marking **CE**⁰⁴³⁴. (0434: The identification number of the Notified Body)

3. INTENDED USE

Medical Purpose

This device 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. The user should also be capable of understanding general machine operation and the content of instruction manual.

Intended Patients

This device should be used by patients, who are conscious and can breathe spontaneously.

Environment

This device is intended for use in a medical facility, such as hospital, clinic and doctor's office. This device is intended for use indoors.

Precautions for use

Warnings and cautions described in the instruction manual should be observed.

4. IMPORTANT SAFETY INSTRUCTIONS

Read all the information in the instruction manual before using the device. Safety-relevant warnings are categorized into hazard levels in these instructions for use.

 WARNING	The signal word WARNING is used to indicate hazards which, without precautionary measures, might result in serious injury or even death.
 CAUTION	The signal word CAUTION is used to indicate hazards which, without precautionary measures, might result in minor to moderate injury or impair treatment.
NOTE	The signal word NOTE is used to indicate general precautionary measures which should be observed when using the device to avoid damaging it.

WARNING

Usage

- When treating babies, children or anyone who requires assistance, the following must be observed without fail. Babies, children or anyone who requires assistance must be supervised constantly by an adult during inhalation therapy. This is the only way to ensure safe and effective treatment. In addition, keep the device out of the reach of those that require supervision such as babies and children.
- This device contains small parts that can pose a choking hazard if swallowed. Be sure to keep these parts out of the reach of babies and children.
- This device is designed only for patients who are conscious and can breathe spontaneously. This is to the only way to ensure effective treatment and avoid a choking hazard.
- For type, dose, and regime of medication, follow the instructions of your doctor or respiratory therapist.
- Clean and disinfect the nebulizer, mouthpiece and mask before using them for the first time after purchase, if the device has not been used for a long period of time, or if more than one person uses the device.
- Be sure to wash the parts after use and ensure that they are thoroughly disinfected and dried, and stored in a clean location.
- Always rinse the nebulizer, mouthpiece and mask with clean warm tap water after disinfecting them.
- Never leave the cleaning solution in the nebulizer or mouthpiece.
- Store the device and parts in a clean location.

- Do not store the air tube while there is moisture or medication remaining inside it.
- Do not use or store the device where it may be exposed to noxious fumes, flammable gas or volatile substances.
- Do not block the air openings. Never place the device where the air openings may be obstructed during operation. Do not cover the compressor with a blanket or towel during use.
- Make sure that the nebulizer, mouthpiece and air tube are clean before use.
- Always dispose of any remaining medication after use. Use fresh medication each time.
- Do not use the device in anesthetic or ventilator breathing circuits.

□ **Risk of electrical shock**

- Never unplug the device with wet hands.
- The compressor and power cord are not waterproof. Do not spill water or other liquids, on these parts. If liquid does spill on these parts, immediately unplug the device and wipe off the liquid with gauze or other absorbent material.
- Do not immerse the compressor and power cord in water or other liquids.
- Do not use or store the device in humid locations such as a bathroom.
- Do not operate the device with a damaged cord or plug.
- Keep the power cord away from heated surfaces.

CAUTION

□ **Usage**

- Provide close supervision when this device is used by, on, or near babies, children or anyone who requires assistance.
- Make sure that the parts including the filter are attached correctly.
- Make sure that the filter is clean. Replace the filter every 30 days or if the filter has turned grey.
- Do not tilt the nebulizer or shake it while in use.
- Do not use or store the device with the air tube tightly twisted.
- Use only the original parts.
- Do not leave the device unattended with babies, children or anyone who cannot express their consent.
- Do not subject the device or the parts to any strong shocks such as dropping the device on the floor.
- Do not distort the top section of the nebulizer or jab the cone of the nebulizer with a pointed object.
- Do not insert fingers or objects inside the compressor.
- Do not disassemble or attempt to repair the compressor or power cord.
- Do not block the filter cover.

- Do not use a microwave oven or hair dryer to dry the device and parts.
- Do not use the device while sleeping or drowsy.
- Approved for human use only.

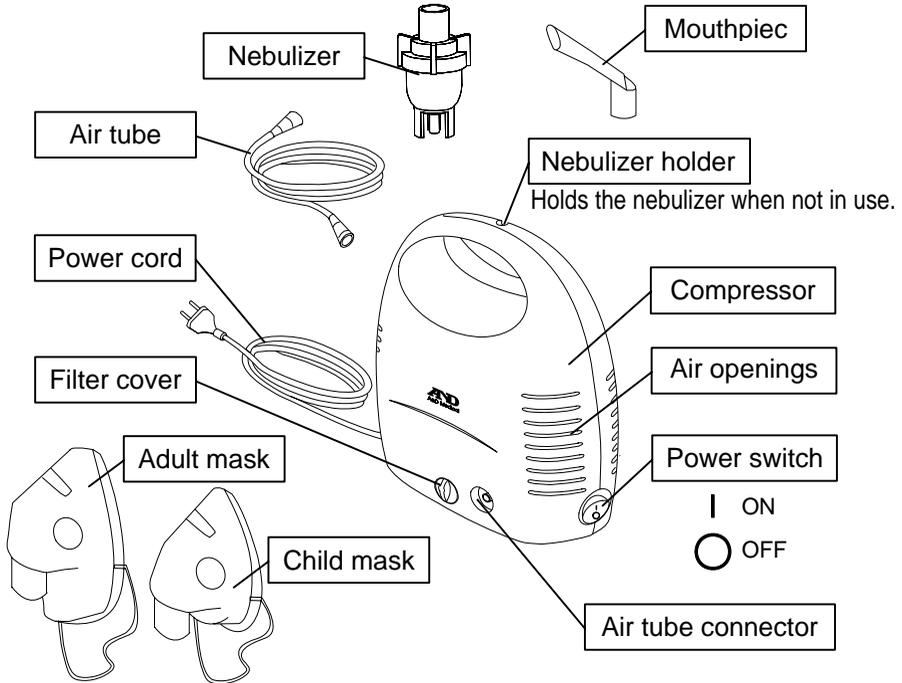
☐ Risk of electrical shock

- Always unplug the device from the electrical outlet after use and before cleaning.
- Plug the device into an appropriate voltage outlet.
- Do not overload electrical outlets or use extension cords.
- Do not wind the power cord around the compressor.
- Changes or modifications not approved by A&D will void the warranty.

General Safety Precautions

- ☐ Inspect the device and parts before each use for normal operation. Particularly, be sure to check the following:
 - That the nebulizer or air tube is not damaged.
 - That the cone of the nebulizer is not blocked.
 - That the compressor operates normally.
- ☐ The device generates some noise and vibration caused by the compressor pump, or some noise caused by the emission of compressed air from the nebulizer. This is normal and does not indicate a malfunction.
- ☐ Operate the device only as intended. Do not use the device for any other purpose.
- ☐ Do not use the device at temperatures greater than +40°C.
- ☐ Make sure that the air tube is securely attached to the compressor and nebulizer, and does not come loose. Twist the air tube plug slightly when inserting it into the connectors to avoid the tube becoming disconnected during use.

5. PARTS IDENTIFICATION



6. SYMBOLS

Symbols that are printed on the device case

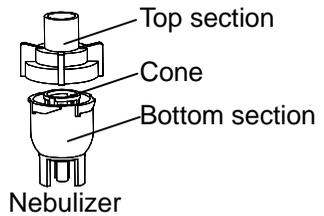
Symbols	Function / Meaning
I	Power on
O	Power off
SN	Serial number
2011	Date of manufacture
	Type BF: The device is designed to provide special protection against electrical shocks.
	EC directive medical device label
	WEEE label
	Manufacturer
	EU-representative
	Consult instructions for use

7. OPERATING INSTRUCTIONS

NOTE: Prior to initial operation, clean the nebulizer thoroughly. Refer to “8. CARE AND MAINTENANCE”.

1. Place your Compressor Nebulizer on a flat and stable surface. Make sure you can easily reach the device when you are seated.
2. Make sure the power switch is in the "OFF" state. Plug the device into an appropriate voltage outlet.
3. Attach one end of the air tube to the air tube connector located on the front of the compressor.
4. Attach the other end of the air tube to the base of the nebulizer.

5. Gently turn the top section of the nebulizer counterclockwise to disassemble.
6. Fill the bottom section of the nebulizer with the medication prescribed by your doctor. Be sure to place the cone inside the bottom section.



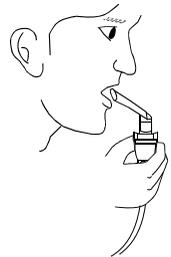
NOTE: Be careful not to lose the cone.

The device doesn't work correctly without it.

7. Gently turn the top section clockwise to reassemble the nebulizer. Make sure the two sections fit in place.

NOTE: Do not tilt the nebulizer. The medication may spill out.

8. Attach the mouthpiece to the top section of the nebulizer. Or, attach the mask to the top section of the nebulizer and apply the mask over the mouth.
9. Press the power switch to start your prescribed treatment.



Important: The compressor motor has a thermal protector which shuts off the device before it overheats. When the thermal protector shuts the device off, please:

- a. Switch the device off.
 - b. Unplug the device from the electrical outlet.
 - c. Wait 30 minutes for the motor to cool down before another treatment. Make sure the air openings are not obstructed.
10. When treatment is finished, switch off and unplug the device from the electrical outlet.

8. CARE AND MAINTENANCE

Wash the nebulizer, mouthpiece and mask after each use and let them dry completely. Disinfect them after the last treatment of the day.

Follow the cleaning instructions to prevent bacterial growth and infection.

⚠ CAUTION: Before cleaning, make sure the device is unplugged from the electrical outlet.

Rinsing (after each use)

1. Disconnect the air tube, nebulizer, mouthpiece or mask.
2. Gently open the nebulizer.
3. Rinse the nebulizer, mouthpiece or mask with water. Never use thinner, alcohol or benzine.
4. Dry them with a clean, soft cloth or let them air dry.
5. Reassemble the nebulizer when completely dry. Place these parts in a dry, sealed container.

Disinfecting the nebulizer

After the last treatment of the day, follow the procedure below to disinfect your Compressor Nebulizer unless otherwise specified by your doctor

1. Gently open the nebulizer.
2. Wash the nebulizer, mouthpiece or mask in warm tap water and a mild detergent.
3. Disinfect these parts with a commercially available disinfectant.

NOTE: Consult your doctor or respiratory therapist about the use of disinfectants and follow the instructions provided by the disinfectant manufacturer.

4. Rinse them thoroughly with warm tap water.
5. Dry them with a clean, soft cloth or let them air dry in a clean environment.
6. Reassemble the nebulizer when completely dry. Place these parts in a dry, sealed container.

NOTE: Replace the nebulizer, mouthpiece and mask after using 6 months.

Cleaning the compressor

1. Wipe daily with a clean, soft cloth moistened with water or a mild detergent. Do not use any powdered cleaners, soap pads, thinner, alcohol or benzine which may damage the finish.

⚠ CAUTION: The compressor is not waterproof.

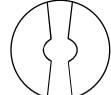
Changing the filter

NOTE: Only use filters supplied by your local dealer. Do not wash or clean the filter to reuse it. Contact your local dealer for additional air filters.

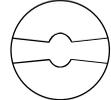
⚠ CAUTION: Do not operate your Compressor Nebulizer without a filter.

1. Replace the filter every 30 days or if the filter turns grey.
2. Replacement procedure:
 - a. Turn the filter cover 90 degrees counterclockwise.
 - b. Remove the filter cover from the compressor.
 - c. Replace the used filter with a new one.
 - d. Reinstall the filter cover on the compressor, aligning the projections on the filter cover with the grooves in the mounting hole.
 - e. Turn the filter cover 90 degrees clockwise.

Filter cover



Locked



Unlocked

9. REPLACEMENT PARTS

Replacement parts are available through your local dealer.

Replacement parts list

Appearance	Parts name	Parts code	Qty	Material
	Adult mask	UNV-011A-01EC	1	PVC
	Child mask	UNV-011A-02EC	1	PVC
	Mouthpiece	UNV-011A-03EC	1	Polypropylene
	Nebulizer	UNV-011A-04EC	1	Polypropylene + Polystyrene
	Air filter	UNV-011A-05EC	5	Polypropylene
	Air tube	UNV-011A-06EC	1	PVC

10. TECHNICAL DATA

Power	230VAC, 50Hz
Current	0.8A
Medication capacity	5 mL
Maximum medication capacity	13 mL
Particle size	0.5 to 10 µm
MMAD (mass median aerodynamic diameter)	4 µm
Sound level	Maximum 60 dBA at 1 meter distance
Nebulization rate	0.2 mL/min or above
Compressor pressure range	30 to 36 psi (210 to 250 kPa / 2.1 to 2.5 bar)
Operating pressure range	8 to 16 psi (50 to 110 kPa / 0.5 to 1.0 bar)
Liter flow rate	5 to 8 Lpm
Operating temperature range	10°C to 40°C (50°F to 104°F)
Operating humidity range	10 to 95% RH
Storage temperature range	-20°C to 70°C (-4°F to 158°F)
Storage humidity range	10 to 95 % RH
Protection against electrical shock	<input type="checkbox"/> Class II equipment <input checked="" type="checkbox"/> Type BF (Mouthpiece, Mask)
Protection against harmful ingress of water	IPX0 (Ordinary)
Degree of safety in the presence of flammable anesthetics or high concentration of oxygen	No AP/APG (Not suitable for use in the presence of flammable anesthetics or high concentration of oxygen)
Mode of operation	Continuous
Dimensions (L x W x H)	188 x 106 x 188 mm (7.4" x 4.1" x 7.4")
Weight	1.5 kg (3.3 Lbs)
Standard accessories	Nebulizer, Air tube, Mouthpiece, Filters (5 pcs), Adult mask, Child mask

Note: The specifications and exterior appearance are subject to change without prior notice.

EMC table information is listed on our website:

http://www.aandd.jp/products/manual/medical/emc_en.pdf



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