A&D Medical

Compressor Nebulizer

Model UN-014

Instruction Manual
Original

ENGLISH

Manuel d'instructions
Traduction

FRANÇAIS

Manual de Instrucciones
Traducción

ESPAÑOL

Manuale di Istruzioni
Traduzione

ITALIANO

使用手冊
翻譯

中文

دليل التعليمات
ترجمة

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ENGLISH

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1. DEAR CUSTOMERS

Thank you for purchasing the UN-014 Compressor Nebulizer.

This device 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 mist of medicinal 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 the CE conformity marking CE0120. (0120: The identification number of the Notified Body.)

3. SYMBOLS

Symbols	Meaning
	Caution Attention or Consult accompanying documents
	Type BF Equipment
~	Alternating Current
	Double Insulation
	Indoor use only
	Manufacturer
	Refer to instruction manual
	WEEE label
EC REP	EU-representative
CE 0120	EC directive medical device label

4. IMPORTANT SAFEGUARDS

⚠ CAUTION:

1. Federal Law restricts the sale or use of this device to an order by a physician.
2. Follow the instructions of your physician when operating this device.
3. This product is a nebulizer for the inhalation of medical aerosols and is suitable for solutions used by children. Use only the type and amount of medication prescribed by the patient's doctor.
4. This device is intended for aerosol therapy only. Any other use is not recommended.
5. Do not untwist the jet nebulizer during operation.
6. Do not pour more than 6ml of solution into the jet nebulizer.

⚠ DANGER: Risk of electrocution.

7. Always unplug the unit immediately after using.
8. Do not use while bathing.
9. Do not place or store the unit where it can fall or be pulled into a tub or sink.
10. Do not place or drop the device into water or other liquid.
11. Do not reach for a product that has fallen into water. Unplug immediately.

⚠ WARNING: Risk of burns, electrocution, fire or injury

1. Electrical Shock Hazard: Do not remove the cabinet or open the cover.
2. Disconnect the power cord from the electrical outlet before cleaning or servicing.
3. Do not place this equipment near hot, sparking or burning objects.
4. Do not use oil or grease on or near this device.
5. Turn the unit off when it is not in use.
6. Keep the cord away from HEATED or HOT surfaces.
7. NEVER drop or insert any object into any opening.
8. NEVER block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked.
9. Avoid operating in wet or damp locations.
10. Unplug the unit before filling the nebulizer.
11. When using this product near TVs, microwave ovens, pulse telephones, X-rays, or other strong electric field, there may be electrical interference. It is recommended to be far away from these devices when using the nebulizer.

⚠ WARNING: Risk of infection

1. This nebulizer is intended for both adult and pediatric patient use.
2. Cleaning of the nebulizer is recommended after each aerosol treatment. Disinfecting is recommended once a day. Please follow cleaning and disinfecting instructions in this manual.

This unit is not suitable for use in anesthetics breathing systems.

This unit is not suitable for solutions in suspension or high viscosity liquids. In such cases information should be sought from the drug supplier.

5. INTRODUCTION

This compressor nebulizer is designed to deliver a prescribed medication solution to treat patient respiratory disorders, such as asthma, allergies and bronchitis. The nebulizer converts the medication solution into an aerosolized mist which is inhaled by the patient through the mouthpiece or mask. Read this manual thoroughly before using the nebulizer and store it for future reference.

6. SPECIFICATIONS

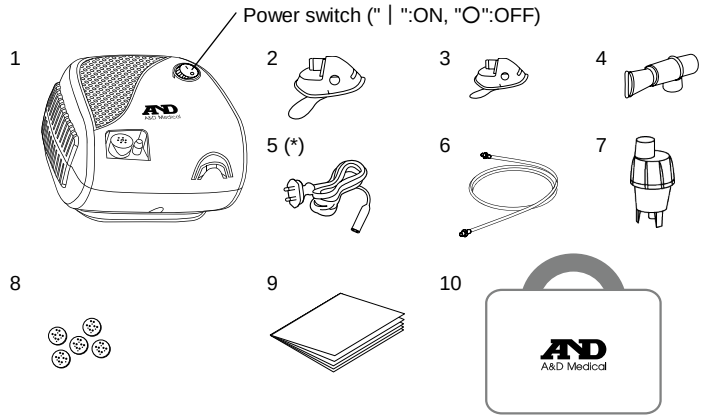
Electrical Requirements	230 V / 50 Hz
Power Consumption	Below 60 W
Rated Current	Below 0.70 A
Dimensions	Length 150 mm × Width 140 mm × Height 90 mm
Weight	1.2 kg (2.64 lbs)
Sound Pressure Level	55 dBA
Max. Compression Pressure	35 psi to 50 psi (241 kpa to 345 kpa)
Neb. Operating Pressure	9-16 psi (62 kpa to 110 kpa)
Liter Flow Range	5-8 L/min
Average Nebulization Rate:	Approx. 0.25 mL/min (6 ml medicine can be nebulized within 18 minutes)
Maximum nebulizer solution capacity	6 ml
Maximum residual medicine volume	0.5 ml
Particle size (MMAD)	Approximately 3 µm
Operating Temperature/Humidity	+ 10 °C to + 40 °C, 30% RH to 85% RH
Storage/Transport Temperature Range/ Humidity	- 20 °C to + 70 °C, 10% RH to 95% RH
Operating and Storage/Transport Atmospheric Pressure	700 hpa to 1,060 hpa

Protection against electric shock
⧈ - Classified as Type
⚠ - Type BF applied parts: Mouthpiece, masks

Degree of safety in the presence of flammable anesthetics or oxygen — No AP/APG (not suitable for use in the presence of flammable anesthetics or oxygen)
Mode of operation — Continuous
IPX0 — No special protection against harmful ingress of water.

7. PARTS IDENTIFICATION

1. Main unit (compressor)
2. Adult mask
3. Child mask
4. Mouthpiece
5. Power cable (*)
6. Air tube
7. Nebulizer cup
8. Air filters
9. Instruction manual
10. Carrying case



(*) C-plug: UN-014A-EC1B, BF-plug: UN-014A-EC2B,
A-plug: UN-014A-EC3B, O-plug: UN-014A-EC4B

Replacement parts list

Appearance	Part name	Part code	Qty	Material
	Adult mask	UNB-014A-01EC	1	PVC
	Child mask	UNB-014A-02EC	1	PVC
	Air tube	UNB-014A-03EC	1	PVC
	Air filter	UNB-014A-04EC	5	urethane sponge
	Nebulizer cup	UNB-014A-05EC	1	PP, SAN
	Mouthpiece	UNB-014A-06EC	1	PP, SAN

8. OPERATING INSTRUCTIONS

1. Place compressor on a stable, sturdy and flat surface so that the unit can be easily reached when you are seated.
2. Pull out the power cord from the base of the device and make sure that the device is in the "Off" (O) position by pressing on the left side of switch.
3. Plug power cord into a wall outlet.
4. Connect one end of the nebulizer tubing into the air outlet connector.
5. Add the prescribed solution through the opening on the cup using an eye dropper or pre-measured dose container.
   The "6cc" marking on the nebulizer cup is the maximum level.
   Medication cannot be filled beyond the maximum level.
6. Assemble mouthpiece and insert it into the top of the nebulizer cup. If an aerosol mask is used, connect the bottom of the mask to the top of the nebulizer cup.
7. Connect the tube to nebulizer air inlet connector.
8. Turn the power on to start the unit.
9. Initiate the treatment by placing the mouthpiece between the teeth. Inhale and exhale through the mouthpiece.
10. If an aerosol mask is used, place the mask over the mouth and nose.

9. CLEANING

1. Turn the power off and unplug from the wall outlet.
2. Remove the tube from the air inlet.
3. **TO CLEAN:** Disassemble the mouthpiece, nebulizer cup, chamber and baffle, and wash these items in hot water with dish-washing detergent. Rinse these items thoroughly to remove the detergent and air dry.
4. **TO DISINFECT:** Mix one part of white vinegar with 3 parts hot water in a clean container. Submerge mouthpiece, nebulizer cup, chamber and baffle for half an hour in the solution. Remove from solution and let air dry.
5. There is no need to clean the tube. If necessary wipe the surface regularly.

Note:

- Replace the nebulizer accessories including adult mask, child mask, mouthpiece, nebulizer cup, Air tube after using 6 months.
- Replace the filter every 30 days or if the filter turns grey.

⚠ **CAUTION: The jet nebulizer must be changed if it becomes clogged.**

⚠ **CAUTION: The nebulizer and accessories must not be boiled.**

10. MAINTENANCE

1. The air compressor filter should be replaced when it turns gray. Additional filters can be procured from your dealer.
2. Only authorized personnel shall make repairs to this product.

⚠ **CAUTION: The nebulizer may be damaged if used with a dirty filter or if the filter is replaced by some other material such as cotton. Do NOT operate without a filter.**

11. TROUBLESHOOTING

Check the following if your unit should fail during operation. You can also refer to the pages of this manual for complete instructions.

Problem	Cause	Remedy
Nothing happens when the power switch is pressed.	The AC adapter is not connected correctly to the electrical outlet or the compressor.	Check that the plug is inserted in an electrical outlet. Unplug then reinsert the plug if necessary.
No nebulization or low nebulization rate when the power is on.	There is no medication in the medication tank.	Add the correct amount of medication to the medication tank.
	There is too much/little medication in the medication tank.	
	The vaporizer head is missing or not assembled correctly.	Attach the vaporizer head correctly.
	The nebulizer kit is not assembled correctly.	Assemble the nebulizer kit correctly.
	The nozzle is blocked.	Make sure that the nozzle is free of blockages.
	The nebulizer kit is tilted at a sharp angle.	Make sure that the nebulizer kit is not tilted at an angle of more than 45 degrees.
	The air tube is not connected correctly.	Make sure that the air tube is correctly connected to the compressor and nebulizer kit.
	The air tube is folded or damaged.	Make sure that the air tube does not contain kinks.
	The air tube is blocked.	Make sure that the air tube is free of blockages.
	The air filter is dirty.	Replace the air filter with a new one.
The device is abnormally loud.	The air filter cover is not attached correctly.	Attach the air filter cover correctly.
The device is very hot.	The compressor is covered by something.	Do not cover the compressor with any type of cover during use.
	The device was operated continuously for over 20 minutes.	Limit use to 20 minutes at a time, and allow a 40 minute rest interval before using the device again.

NOTE: If the suggested remedy does not solve the problem, do not try to repair the device. No parts of the unit are user serviceable. Return the unit to an authorized retail outlet or distributor.

12. IMPORTANT INFORMATION REGARDING ELECTRO MAGNETIC COMPATIBILITY (EMC)

With the increased number of electronic devices such as PCs and mobile (cellular) telephones, medical devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the medical device and create a potentially unsafe situation. Medical devices should also not interfere with other devices.

In order to regulate the requirements for EMC (Electro Magnetic Compatibility) with the aim to prevent unsafe product situations, the EN60601-1-2:2007 standard was implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions for medical devices.

This medical device confirms to the EN60601-1-2:2007 standard for both immunity and emissions. Nevertheless, special precautions need to be observed:

- Do not use mobile (cellular) telephones and medical devices, which generate strong electrical or electromagnetic fields; near the medical device. This may result in incorrect operation of the unit and create a potentially unsafe situation. The recommended minimum distance is 7 meters. Verify correct operation of the device in case the distance is shorter.

13. CORRECT DISPOSAL OF THIS PRODUCT (WASTE ELECTRICAL & ELECTRONIC EQUIPMENT)

This marking shown on this product and its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office for details of where and how they can dispose this item for environmentally safe recycling.

This product does not contain any hazardous substances.

A&D Company, Limited
3-23-14 Higashi-Ikebukuro, Toshima-ku Tokyo 170-0013 JAPAN
http://www.aandd.jp

A&D INSTRUMENTS LIMITED
Unit 24/26 Blacklands Way, Abingdon Business Park, Abingdon,
Oxfordshire OX14 1DY United Kingdom
Telephone: [44] (1235) 550420 Fax: [44] (1235) 550485

A&D Australasia Pty Ltd.
32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA
Telephone: [61] (8) 8301-8100 Fax: [61] (8) 8352-7409

A&D Instruments India Private Limited
509 Udyog Vihar Phase V Gurgaon-122 016, Haryana, India
Tel：91(124)471-5555 Fax：91(124)471-5599

Shenzhen Bi-rich Medical Devices Co.Ltd,
No. 10th, Hongqian 2nd Road, ShangNan, Shajing street, Bao'An district,
518125 Shenzhen City, Guangdong Province, P.R.China

EC REP **Trinium**
Hakakatu 16 A 1 90120 OULU FINLAND

CE 0120