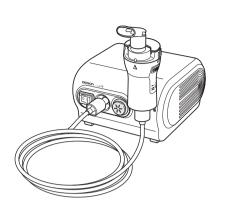
OMRON





Compressor Nebulizer Model NE-C28

Instruction Manual

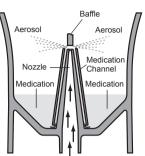
Thank you for purchasing the OMRON COMP AIR.

This product was developed in conjunction with respiratory therapists for the successful treatment of asthma, chronic bronchitis, allergies and other respiratory disorders.

This is a medical device. Operate the device only as instructed by your doctor and/or respiratory therapist.

How the nebulizer kit works

The medication that is pumped up through the medication channel is mixed with compressed air which is generated by a compressor pump. The compressed air mixed with medication is turned into fine particles and sprayed when in contact with the baffle.



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Asia Pacific HQ	OMRON HEALTHCARE SINGAPORE PTE LTD. 438A Alexandra Road, #05-05/08 Alexandra Technopark, Singapore 119967 www.omron-healthcare.com.sg
Production facility	OMRON (DALIAN) CO., LTD. Dalian, CHINA

All for Healthcare

11/2011 5334451-2A

Intended use

Medical Purpose

This product is intended to be used for inhaling medication for respiratory disorders.

Intended User

- · Legally certified medical experts, such as doctor, nurse and therapist. • Caregiver or patient under the guidance of qualified medical experts for
- home treatment • The user should also be capable of understanding general operation of
- NE-C28 and the content of instruction manual.

Intended Patients

This product should not be used by patients, who are unconscious or are not breathing spontaneously.

Environment

This product is intended for use in a medical facility, such as Hospital, clinic and doctor's office, and in a room of general household.

Durable period

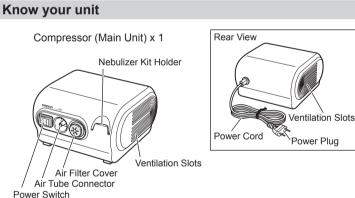
Durable periods are as follows, provided the product is used to nebulize saline 3 times a day for 10 minutes each time at room temperature (23°C)

Durable period may vary depending on usage environment.

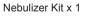
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Compres	ssor (Main	unit)			5 years
Nebulize	r Kit					1 year
Mouthpie	ece					1 year
Air Tube	(PVC	;, 20	7cm)			1 year
Air Filter						60 days
Adult Ma	isk (P	VC)				1 year
Child Ma	isk (P	VC)				1 year

Precautions for use

Warnings and cautions described in the instruction manual should be observed



Mouthpiece x 1



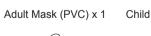
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Vaporiser Head

Medication Tank

Nozzle

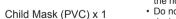






Air Tube Connector







Important safety instructions

Read all the information in the instruction manual and any other literature included in the box before using the device

Marning: Indicates a potentially hazardous situation which, if not avoided, could result in serious injury.

- (Usage)For type, dose, and regime of medication follow the instructions of your doctor or respiratory therapist. If you feel anything unusual during use, stop using the device immediately and
- consult your doctor.
- Do not use only water in the nebulizer for inhaling purposes.
 Clean and disinfect the nebulizer kit, mask, mouthpiece or nosepiece before using
- If the device has not been used for a long period of time, or if more than one persor uses the same device, clean and disinfect the nebulizer kit, mask, mouthpiece or
- nosepiece before using them. Be sure to wash the parts after use, and ensure that they are thoroughly disinfected
- and dried, and stored in a clean location. Keep the device out of the reach of unsupervised infants and children. The device
- may contain small pieces that can be swallowed. • Do not store the air tube while there is moisture or medication remaining inside.
- Do not leave the cleaning solution in the nebulizer parts. Rinse them with clean ho
- tap water after disinfecting. · Do not use or store the device where it may be exposed to noxious fumes or volatile substances.
- Do not use the device where it may be exposed to flammable gas.
- · Do not cover the compressor with a blanket, towel, or any other type of cover durin
- · Always dispose of any remaining medication after use, and use fresh medication ead
- Do not use in anaesthetic or ventilator breathing circuits. · Do not block the ventilation slots. Never place the device where the ventilation slots may be obstructed during operation.

(Risk of electrical shock)

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

▲ Caution: Indicates a potentially hazardous situation which if not avoided, may result in minor or moderate injury, or physical damage.

(Usage)

- Provide close supervision when this device is used by, on, or near children or invalid
- Make sure that the parts are attached correctly.
- Make sure that the air filter is correctly attached
- Make sure that the air filter is clean. If the air filter has changed colour, or has beer used on average for more than 60 days, replace it with a new one
- · Do not tilt the nebulizer kit at an angle of greater than 45 degrees in all directions of shake it while in use.
- · Do not use or store the device while the air tube is creased
- · Use only original nebulizing parts, air tube, air filter and air filter cover.
- Do not add more than 7 ml of medication to the medication tank.
- Do not carry or leave the nebulizer kit while the medication tank contains medicatio
 Do not leave the device unattended with infants or persons who cannot express the
- consent. · Do not subject the device or the parts to any strong shocks such as dropping the devi
- on the floor. · Do not distort the vaporiser head, or jab the nozzle of the medication tank with a pin
- or any sharp object Do not insert fingers or objects inside the compressor.
- Do not disassemble or attempt to repair the compressor or power cord.
 Do not leave the device or its parts in extreme hot or cold temperature, or under direct sunlight
- · Do not block the air filter cover
- When disinfecting parts by boiling, make sure that the container does not boil dry.
- Do not use the device while sleeping or if drowsy.
- · Do not use a microwave oven, dish dryer or hair dryer to dry the device or the parts. Approved for human use only.
- · When using the device, the main unit may become hot. · Do not touch the main unit for other than necessary operation such as turning off the
- power while nebulizing.
- To avoid the medication residue on the face, be sure to wipe the face after removing the mask
- · To avoid injury to the nose mucosa, do not squeeze the nosepiece into the back of the nose
- · Do not use EOG gas disinfection or low temperature plasma sterilizer to disinfect the device
- Do not block the slit between the cap and the inhalation air inlet.
 Make sure that the vaporiser head is correctly installed before use.
- (Risk of electrical shock)
- Always unplug the device from the power outlet after use and before cleaning. · Plug the device into the appropriate voltage outlet. Do not overload power outlets or
- use extension cords.
- Do not misuse the power cord.
- Do not wind the power cord around the compressor.
 Changes or modifications not approved by OMRON HEALTHCARE will void the user warranty
- · Do not pull the power cord strongly.

1	 General Safety Precautions: Inspect the device and parts before using them each time, and check that there are no problems. In particular, be sure to check the following: That the nozzle or air tube are not damaged. That the nozzle is not blocked. That the compressor operates normally. When using this device, there will be some noise and vibration caused by the pump in the compressor. There will also be some noise caused by the emission of compressed to the provide the terms of terms
'n	 air from the nebulizer kit. 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 kit, and does not come loose. Twist the air tube plug slightly when inserting it into the air tube connectors to avoid the air tube disconnecting during use. To completely isolate the device from the power source unplug the plug from the power source.
	Keep these instructions for future reference.
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	Important information regarding Electro Magnetic Compatibility (EMC)
	With the increased number of electronic devices such as PC's and mobile (cellular)
ıg	telephones, medical devices in use may be susceptible to electromagnetic interference
ch	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.
S	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 has been implemented. This standard defines the levels of immunity to electromagnetic
	interferences as well as maximum levels of electromagnetic emissions for medical devices.
ls I	This medical device manufactured by OMRON HEALTHCARE conforms to this EN60601-1-2:2007 standard for both immunity and emissions.
	Nevertheless, special precautions need to be observed:
	Do not use mobile (cellular) telephones and other 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.
	Recommendation is to keep a minimum distance of 7 m. Verify correct operation of
1	the device in case the distance is shorter. Further documentation in accordance with EN60601-1-2:2007 is available at OMRON
	HEALTHCARE EUROPE at the address mentioned in this instruction manual.
ds.	Documentation is also available at www.omron-healthcare.com.
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or	Correct Disposal of This Product (Waste Electrical & Electronic Equipment)
on.	This marking shown on the product or its literature, indicates that it should not be
eir	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,
ice	please separate this product from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
	promote the sustainable reuse of material 185001085.

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 return this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes fo disposal.

Optional parts and accessories

Name	Model
V.V.T. Nebulizer Kit & Mouthpiece Set	C28-1-C1
Adult Mask (PVC)	C28-8-C1
Child Mask (PVC)	C28-9-C1
Mouthpiece	C28-3P-C1
Nosepiece	C28-7-C1
Air Tube (PVC, 207cm)	C30-6-C1
Air Filters x 5	C28-2-C1

How to use

- 1. Make sure that the power switch is in the off (\bigcirc) position.
- **2.** Plug the power plug into a power outlet.
- **3.** Remove the cap and the inhalation top from the medication tank.
- 4. Remove the vaporiser head from the medication tank.
- **5.** Add the correct amount of prescribed medication to the medication tank.

A Caution:

The capacity of the medication tank is 2 to 7 ml.

- 6. Reattach the vaporiser head to the medication tank.
- 7. Put the inhalation top back inside the medication tank.
- 1) Align the protrusion on the inhalation top with the indent on the medication tank as shown.
- Rotate the inhalation top clockwise and align with the medication tank until they click in place.
- 8. Attach the cap and mask, mouthpiece or nosepiece to the nebulizer kit.
- Note: It is not necessary to attach the cap when nebulizing with Adult mask. If the amount of aerosol is too great, attach the cap.
- Attach the air tube. Twist the air tube plug slightly and push it firmly into the air tube connector.
- Hold the nebulizer kit as indicated on the right.
 Follow the instructions of your doctor or respiratory therapist.

▲ Caution:

Do not tilt the nebulizer kit at an angle of greater than 45 degrees in all directions. Medication may flow into the mouth or it may result in not nebulizing effectively.

 Press the power switch to the on () position. As the compressor starts, nebulization begins and aerosol is generated. Inhale the medication.

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Right angle

12. When treatment is complete, turn the power off.

Cleaning and daily disinfecting

Cleaning

Cleaning the parts after each use will prevent any remaining medication in the tank from drying, resulting in the device not nebulizing effectively and also for preventing infections.

Firstly, make sure that the power switch is in the off (\mathbf{O}) position, and unplug the power plug from the power outlet.

Nebulizer Kit, Masks (PVC), Mouthpiece, Nosepiece

Wash them in warm water and mild detergent. Rinse them thoroughly with clean hot tap water and allow to air dry in a clean place. **Note:** Nebulizer kit should be replaced after using for 6 months.

Compressor, Air Tube

Wipe clean with a soft cloth moistened with water or mild detergent.

Disinfecting

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Always disinfect the parts after the last treatment of the day. If the parts are heavily stained, replace them with new ones.

Use one of the methods described below:

- **A**. Use a commercially available disinfectant. Follow the instructions provided by the disinfectant manufacturer.
- 1) Submerge the parts in the disinfectant for the specified period.

2) Rinse them with clean hot tap water and allow to air dry in a clean place. **Note:** Never clean with benzene. thinner or a flammable chemical.

B. Parts may be boiled between 15 to 20 minutes.

After boiling, carefully remove the parts, shake off excess water and allow to air dry in a clean environment.

Note: Do not boil Air tube, Masks (PVC), Air filter and Air filter cover.

▲ Caution: Handling the Vaporiser Head

- Always wash the vaporiser head after each use.
- Do not use a brush or pin to clean the vaporiser head.
- When disinfecting the parts by boiling, be sure to boil them in plenty of water.
 Do not boil vaporiser head together with objects other than applicable nebulizer
- accessories.
- Do not use a microwave oven, dish dryer or hair dryer to dry parts.

Use the table below as a guideline to select a method for disinfecting

O: applicable ×: not applicable

Parts	Mouthpiece	Nosepiece (optional)	Nebulizer Kit	Air Filter	Air Filter Cover	Adult Mask (PVC) Child Mask (PVC)	Air Tube (PVC, 207cm)
Materials	đđ	đđ	PP (Vaporiser Head:PC)	Polyester	ABS	Mask: PVC (Phthalate free) Band: Rubber (non-latex)	PVC (Phthalate free)
Boiling	0	0	0	×	×	×	×
Alcohol Disinfecting ethanol	0	0	0	×	0	0	×
Sodium hypochlorite Milton* (0.1%)	0	0	0	×	0	0	×
Quaternary ammonium Osvan* (0.1%)	0	0	0	×	0	0	×
Chlorhexidine Hibitane* (0.5%)	0	0	0	×	0	0	×
Amphoteric Surfactant Tego* (0.2%)	0	0	0	×	0	0	×

Removing condensation from the air tube

If there is moisture or liquid remaining in the air tube, be sure to follow the procedure below to remove any moisture from within the air tube.

- Make sure that the air tube is connected to the air connector on the compressor.
- 2) Remove the air tube from the nebulizer kit.
- 3) Turn on the compressor and pump air through the air tube to expel the moisture.

Changing the air filter

If the air filter has changed colour, or has been used on average for more than 60 days, replace it with a new one.

1. Pull the air filter cover off the compressor.



2. Change the air filter. Remove the old air filter with a sharp object, such as a toothpick, and insert the new air filter.



3. Put the air filter cover back in place.

Notes:

- Use only OMRON air filters designed for this device. Do not operate without a filter.
- Do not attempt to wash or clean the filter. If the air filter becomes wet, replace it. Damp air filters can cause blockages.
- There is no front or back orientation for the air filters.
- Check that air filters are clean and free of dust before inserting them.

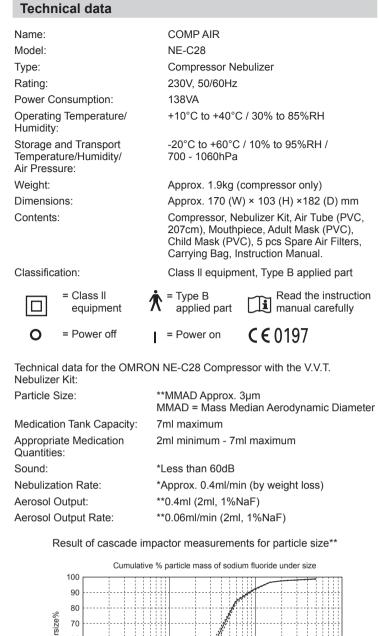
Check the following if your unit should fail during operation

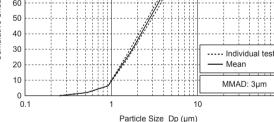
 To prevent the air filter cover from becoming blocked, wash the cover regularly. Do not boil the air filter cover. Remove the air filter cover, wash it, and make sure it is dry and reattached correctly.

Troubleshooting

Problem	Cause	Remedy		
Problem	Cause	Remedy		
Nothing happens when the power switch is pressed.	Is the power plug plugged into a power outlet?	Check that the plug is inserted in a power outlet. Unplug then reinsert the plug if necessary.		
No nebulization or low nebulization rate, when the power is on.	Is there medication in the medication tank?	Add the correct amount of medication to the medication tank		
	Is there too much/little medication in the medication tank?			
	Is the vaporiser head missing or not assembled correctly? Attach the vaporiser head correctly.			
	Is the nebulizer kit assembled correctly?	Assemble the nebulizer kit correctly.		
	Is the nozzle blocked?	Make sure that the nozzle is free of blockages.		
	Is the nebulizer kit tilted at a sharp angle?	Make sure that the nebulizer kit is not tilted at an angle of more than 45 degrees.		
	Is the air tube connected correctly?	Make sure that the air tube is correctly connected to the compressor and nebulizer kit.		
	Is the air tube folded or damaged?	Make sure that the air tube does not contain kinks.		
	Is the air tube blocked?	Make sure that the air tube is free of blockages.		
	Is the air filter dirty?	Replace the air filter with a new one.		
The device is abnormally loud.	Is the air filter cover attached correctly?	Attach the air filter cover correctly.		
The device is very hot.	Is the compressor covered?	Do not cover the compressor with any type of cover during use.		
	Are the ventilation slots blocked?	Do not block the ventilation slots.		

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. Please contact an authorized OMRON distributor.





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- * Measured by OMRON HEALTHCARE Co., Ltd.
- ** Independently measured at SolAero Ltd., Canada, Dr. John Dennis, according to EN13544-1:2007+A1:2009.

Notes:

- Subject to technical modification without prior notice.
- This OMRON product is produced under the strict quality system of OMRON HEALTHCARE Co., Ltd., Japan.
- The device may not work if the temperature and voltage conditions are different to those defined in the specifications.
- This device fulfils the provisions of the EC directive 93/42/EEC (Medical Device Directive) and the European Standard EN13544-1:2007+A1:2009, Respiratory therapy equipment - Part1: Nebulizing systems and their components.
- Performance may vary with drugs such as suspensions or high viscosity. See drug supplier's data sheet for further details.