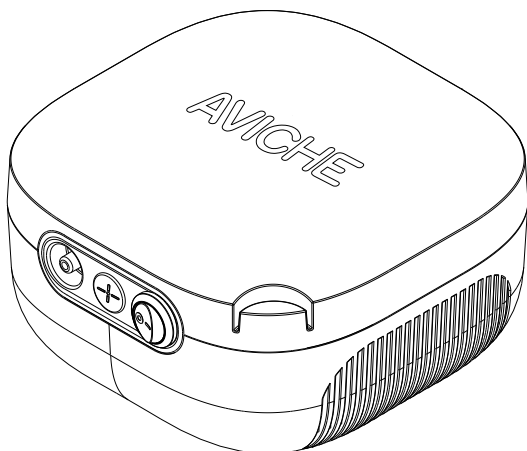


AVICHE

Medical Compressor Nebulizer

Model: AH-C10

User Manual



Version 1.0

Thank you for choosing AVICHE Medical Compressor Nebulizer. Please read this User Manual carefully before use and maintenance and keep it properly for future reference.

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The illustrations shown in this user manual are image drawings and may differ slightly from the appearance of the actual product.

Before Using the Device

Introduction

Thank you for purchasing the AH-C10 Medical Compressor Nebulizer.

This product was developed for the successful treatment of asthma, allergies and other respiratory disorders. The compressor forces air to the nebulizer. When the air enters the nebulizer, it converts the prescribed medication into an aerosol of microscopic droplets that can easily be inhaled.

Your AH-C10 Medical Compressor Nebulizer comes with the following components:

- Compressor (Main Unit)
- Nebulizer Kit
- Air Tube (PVC, 150 cm)
- Air Filters (Package of 2)
- User Manual
- Adult or Child Mask (PVC)

For specific information about your own nebulizer,
CONSULT YOUR DOCTOR.

SAVE THESE INSTRUCTIONS



Intended Use

The AH-C10 Medical Compressor Nebulizer is intended to provide air to the pneumatic nebulizer in order to aerosolize medications for inhalation by the patient for respiratory disorders. The system is designed for use with pediatric (defined by the prescribed medication) and adult patients in the home, hospital, and sub-acute settings.








All warnings and cautions described in this manual should be observed.

Safety Information

To ensure the correct use of the product, basic safety measures should always be followed including the warnings and cautions listed in this user manual.

SAFETY SYMBOLS USED IN THIS USER MANUAL	
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property.

Operating the Device

-  For type, dose, and regime of medication follow the instructions of your physician or licensed healthcare practitioner.
-  If you feel anything unusual during use, stop using the device immediately and consult your physician.
-  Do not cover the compressor with a blanket, towel, or any other type of cover during use. This could result in the compressor overheating or malfunctioning.
-  Do not use the device where the device may be exposed to flammable gas or vapors.
-  Do not use tap or mineral water in the nebulizer for inhaling purposes.
-  Clean and disinfect the nebulizer kit, mouthpiece, and optional nosepiece or optional masks before using them for the first time after purchase.
-  If the device has not been used for a long period of time, clean and disinfect the nebulizer kit, mouthpiece, and optional nosepiece or optional masks before using them.

- ⚠ Pentamidine is not an approved medication for use with this device.
- ⚠ Always dispose of any remaining medication in the medication cup after each use. Use fresh medication each time you use the device.
- ⚠ Do not leave the device or its parts where it will be exposed to extreme temperatures or changes in humidity, such as leaving the device in a vehicle during warm or hot months, or where it will be exposed to direct sunlight.
- ⚠ Do not use or store the device where it may be exposed to noxious fumes or volatile substances.
- ⚠ Make sure that the nebulizer kit is clean before use.
- ⚠ Do not use in anaesthetic or ventilator breathing circuits.
- ⚠ Not suitable for use in the presence of flammable anesthetic mixture with air or oxygen or nitrous oxide.
- ⚠ Do not operate where oxygen is being administered in a closed environment (such as an oxygen tent).
- ⚠ Provide close supervision when this device is used by, on, or near infants, children or compromised individuals.
- ⚠ If the device is used continuously, the service life of the device may be shortened.
- ⚠ Limit use to 30 minutes at a time, and allow a 30 minutes interval before using the device again.
- ⚠ 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.
- ⚠ Do not insert any object into the compressor.

- ▲ Make sure the air filter is clean. If the air filter has changed color or has been used on average for more than 60 days, replace it with a new one.
- ▲ Make sure the nebulizer kit is correctly assembled, the air filter is properly installed, and the air tube is correctly connected to the compressor and the nebulizer kit. Air may leak from the air tube during use if not securely connected.
- ▲ Inspect the compressor (main unit) and the nebulizer parts each time before using nebulizer kit. Make sure no parts are damaged, the nozzle and air tube are not blocked and the compressor operates normally.
- ▲ Do not use the device if the air tube is bent.
- ▲ Do not block the air filter cover.
- ▲ Do not alter the baffle, the nozzle in the medication cup or any part of the nebulizer kit.
- ▲ Do not add more than 8mL of medication to the medication cup.
- ▲ Do not operate the device at temperatures greater than +40°C (+104°F).
- ▲ Do not tilt the nebulizer kit so the angle of the kit is greater than 45°. Medication may flow into the mouth.
- ▲ Do not shake the nebulizer kit while using the device.
- ▲ Do not subject the compressor or any of the components to strong shocks, such as dropping on the floor.
- ▲ This device is approved for human use only.
- ▲ Do not disassemble or attempt to repair the device or components.
- ▲ Operate the device only as intended. Do not use the device for any other purpose.

- ▲ Dispose of the device, components and optional accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution.
- ▲ Use only AVICHE authorized parts and accessories. Parts and accessories not approved for use with the device do not perform the expected specification or it may damage the unit.
- ▲ Changes or modification not approved by AVICHE will void the user warranty.
- ▲ To avoid injury to the nose mucosa, do not squeeze the optional nosepiece into the back of the nose.
- ▲ To avoid the medication residue on the face. After nebulization, be sure to wipe the face after removing the optional masks.
- ▲ 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 air from the nebulizer kit. This is normal and does not indicate a malfunction.
- ▲ When sterilizing parts by boiling, make sure that the container does not boil dry.
- ▲ Do not use the device while sleeping or if drowsy.
- ▲ Do not block the slit between the cap and the inhalation air inlet.

Risk of Electrical Shock

- ▲ Do not connect the power cord terminal using wire or other metallic conductors.
- ▲ Do not use the compressor (main unit) or power cord while they are wet.
- ▲ Do not plug or unplug the power cord into the electrical outlet with wet hands.

- ▲ Do not immerse the compressor (main unit) in water or other liquid.
- ▲ Do not spill water or other liquids on the compressor and power cord. These parts are not waterproof. If liquid spills on these parts, immediately unplug the power cord and wipe off the liquid with gauze or other soft absorbent material.
- ▲ Do not use or store the device in humid locations, such as a bathroom. Use the device within the operating temperature and humidity.
- ▲ Do not operate the device with a damaged power cord or plug.
- ▲ Do not use a cellular phone near the device. It may result in an operational failure.
- ▲ Do not overload power outlets. Plug the power cord into the appropriate voltage outlet.
- ▲ Do not use extension cords. Plug the power cord directly into the electrical outlet.
- ▲ Unplug the power cord from the electrical outlet after using the device.
- ▲ Unplug the power cord from the electrical outlet before cleaning the device.
- ▲ Do not pull the power cord of power cord strongly.

Maintenance and Storage

- ▲ Keep the device out of the reach of unsupervised infants and children. The device may contain small parts that can be swallowed.
- ▲ Do not leave the cleaning solution in the nebulizer parts. Rinse the nebulizer parts with clean hot tap water after disinfecting.
- ▲ Wash the nebulizer parts after each use. Dry the parts immediately after washing.

- ⚠ Do not store the air tube with moisture or medication remaining in the air tube. This could result in infection as a result of bacteria.
- ⚠ Store the device and the components in a clean, safe location.
- ⚠ Do not carry or leave the nebulizer kit with medication in the medication cup.
- ⚠ Do not place or attempt to dry the device, components or any of the nebulizer parts in a microwave oven.
- ⚠ Do not wrap the power cord around the compressor (main unit) and power cord.

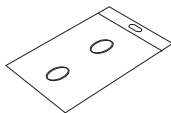
Know Your Unit

Components



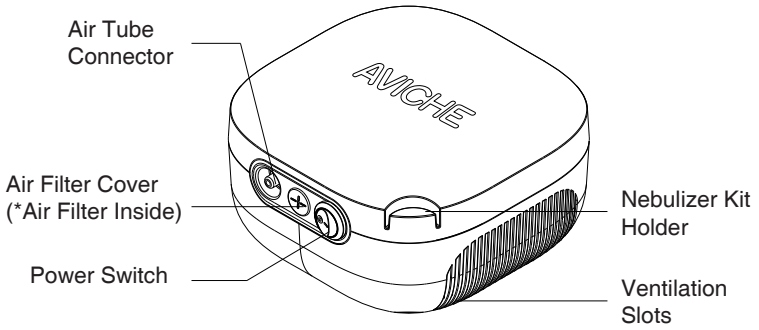
User Manual (including Warranty Card) × 1

Product Inspection Certificate × 1

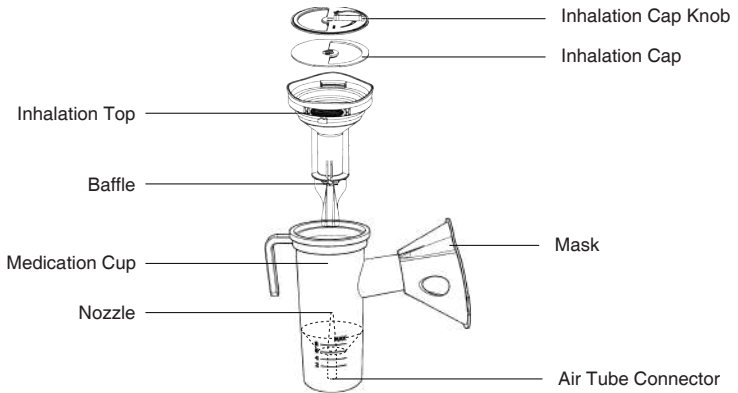


Air Filters Package of 2

Main Unit



Nebulizer Kit



Operating Instructions

Preparing the Nebulizer for Use

▲ WARNING

- Clean and disinfect the nebulizer kit, and optional masks 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 same device, clean and disinfect the nebulizer kit, and optional masks before using them.

▲ CAUTION

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

For directions on cleaning and disinfecting refer to page 16 - 18.

For directions on changing the air filter refer to page 18.

- 1 Plug the power cord into the electrical outlet.

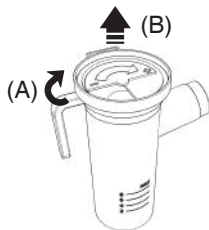
▲ WARNING

Do not plug or unplug the power cord into the electrical outlet with wet hands.

▲ CAUTION

- Do not overload power outlets. Plug the power cord into the appropriate voltage outlet.
- Do not use extension cords. Plug the power cord directly into the electrical outlet.

- 2 Rotate the inhalation top counterclockwise (A) and lift (B) to remove the inhalation top from the medication cup.



3 Add the correct amount of prescribed medication to the medication cup.

▲ WARNING

- For type, dose, and regime of medication follow the instructions of your physician or licensed healthcare practitioner.
- Do not spill water or other liquids on the compressor and power cord. These parts are not waterproof. If liquid spills on these parts, immediately unplug the power cord and wipe off the liquid with gauze or other soft absorbent material.
- Do not use tap or mineral water in the nebulizer for inhaling purposes.

▲ CAUTION

Do not add more than 8mL of medication to the medication cup.

NOTE: Scales on the nebulizer kit are for reference only.

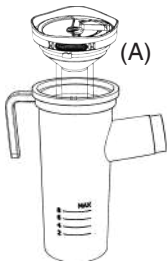
The scale on the outside of the medication cup is with no splash guard in place. Please use the scale on your syringe or vial for accurate measurement of medication.



4 Place the inhalation top on the medication cup.

Align the protrusion on the inhalation top with the indentation on the medication cup as illustrated (A).

Turn the inhalation top clockwise until securely closed (B).

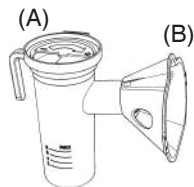


5 Attach the desired inhalation accessory.

USING ADULT MASK or CHILD MASK

Turn the inhalation cap knob to cover the inhalation air inlet(A).

Attach the mask(B)



NOTE: 1. Amount of aerosol can be adjusted by turning the inhalation cap knob.

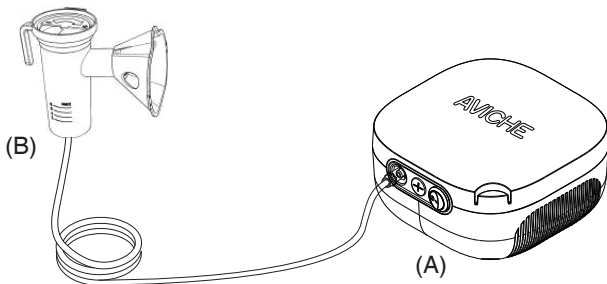
2. Users can use splash guards to help adjust the particle size. For general use, it is not necessary to add any splash guard to use. For upper respiratory disease, it can use the round splash guard. For pulmonary disease, it can use fine particle splash guard.

Attaching the Air Tube

1 Twist the air tube plug slightly and push it firmly into the air tube connector on the upper side of the compressor (A).

2 Twist the air tube plug slightly and push it firmly into the air tube connector on the bottom of the nebulizer kit (B).

NOTE: Keep the nebulizer kit upright when attaching the air tube. Medication may spill out of the medication cup.

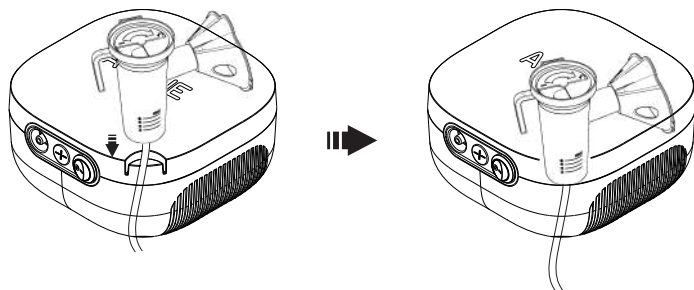


▲ CAUTION

- Make sure the nebulizer kit is correctly assembled, the air filter is properly installed, and the air tube is correctly connected to the compressor and the nebulizer kit. Air may leak from the air tube during use if not securely connected.
- Do not use the device if the air tube is bent.

3 Use the nebulizer kit holder as a temporary holder for the nebulizer kit.

NOTE: Align the mark on the unit with the mark on the nebulizer kit as shown.



Using the Device

▲ WARNING

- Do not use the device where the device may be exposed to flammable gas or vapors.
- Do not use or store the device in humid locations, such as a bathroom. Use the device within the operating temperature and humidity.

▲ CAUTION

- Provide close supervision when this device is used by infants, children or compromised individuals.
- Do not use a cellular phone near the device. It may result in an operational failure.
- Inspect the compressor (main unit) and the nebulizer parts each time before using the device. Make sure no parts are damaged, the nozzle and air tube are not blocked and the compressor operates normally.

1 Hold the nebulizer kit as illustrated on the right.

▲ CAUTION

- Do not tilt the nebulizer kit so the angle of the kit is greater than 45°. Medication may flow into the mouth.
- Do not shake the nebulizer kit while using the device.



2 Turn the power switch to the on (**I**) position.

As the compressor starts, nebulization begins and aerosol is generated. To stop nebulization, turn the power switch to the off (**O**) position.

▲ WARNING

Do not cover the compressor with a blanket, towel, or any other type of cover during use. This could result in the compressor overheating or malfunctioning.

▲ CAUTION

- Do not block the air filter cover.
- Limit use to 30 minutes at a time, and allow a 30 minutes interval before using the device again.
- 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.

3 Inhale medication as instructed by your physician or licensed healthcare practitioner.

USING THE ADULT MASK or the CHILD MASK

Place the mask over the nose and mouth. Pull the elastic strap over the head. Gently pull on the strap to secure the mask over the nose and mouth. Inhale the medication. Exhale normally through the mask.



4 Complete the treatment.

WARNING

For type, dose, and regime of medication, follow the instructions of your physician or licensed healthcare practitioner.

5 Turn the power switch to the off () position.

The compressor turns off and nebulization stops.

6 Disconnect the air tube from the nebulizer kit. Hold the air tube plug and gently pull down to disconnect the air tube plug from the air tube connector on the bottom of the nebulizer kit.

7 Check the air tube. No condensation or moisture should remain in the air tube.

WARNING

Do not store the air tube with moisture or medication remaining in the air tube. This could result in infection as a result of bacteria.

If any condensation or moisture remains in the air tube, remove the moisture from the air tube. Follow the directions below:

1. Make sure the air tube is still connected to the air tube connector on the upper side of the compressor.
 2. Press the power switch on. The compressor will start and pump air through the air tube to expel the moisture.
 3. Press the power switch again to turn the compressor off.
- 8** Disconnect the air tube from the compressor. Hold the air tube plug and gently pull the air tube plug off the air tube connector on the upper side of the compressor.
- 9** Unplug the power cord from the electrical outlet.

CAUTION

- Unplug the power cord from the electrical outlet after using the device.
- Remove the power cord from the device after use.
- Do not pull the power cord of power cord strongly.

Care and Maintenance

Cleaning after Each Use

Following cleaning instructions after each use will prevent any remaining medication in the bottle from drying resulting in the device not nebulizing effectively and will help prevent infections.

 **WARNING**

Wash the nebulizer parts after each use. Dry the parts immediately after washing.

- 1** Remove the inhalation accessory (masks) from the nebulizer kit.
- 2** Disconnect the air tube from the nebulizer kit.
- 3** Gently twist the inhalation top clockwise and lift to separate the nebulizer into two sections.
- 4** Discard remaining medication in the medication cup.

 **WARNING**

Always dispose of any remaining medication in the medication cup after each use. Use fresh medication each time you use the device.

- 5** Rinse all the parts with hot tap water.
- 6** Hand dry or air dry in a clean environment using a soft, clean, lint-free cloth.
- 7** Assemble the nebulizer kit and store it in a dry bag.

Daily Disinfecting

Disinfect the nebulizer kit and particle adjusters and mask after the last treatment of the day.

To disinfect the parts, 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 cleansing solution for the specified period.
2. Remove the parts and discard the solution.
3. Rinse the parts with clean hot tap water, shake off excess water and allow to air dry in a clean environment.

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, air filter, air filter cover and optional masks.

CAUTION

Do not use an autoclave, EOG gas disinfection or low temperature plasma sterilizer to disinfect the device.

Handling the Baffle

The baffle is an important part that is used to nebulize medication. Be sure to observe the following precautions when handling it.

CAUTION

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

Changing the Air Filter

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

- 1 Pull the air filter cover to remove from the back side of the compressor.
- 2 Remove the dirty air filter.

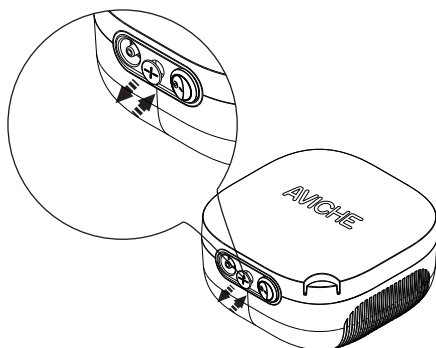
▲ CAUTION

- Do not attempt to wash or clean the air filter. Damp air filters can cause blockages. Do not substitute cotton or any other material for the air filter.
- Wash the air filter cover regularly to prevent any blockage in the cover. Do not boil. Make sure the cover is dry before inserting the new air filter.

- 3 Insert a new air filter.

▲ CAUTION

Before inserting the new air filter make sure the air filter is clean and free of dust. Do not operate the device without the air filter. Use only the AVICHE air filter designed for this device.



- 4 Put the air filter cover back on the compressor.

Caring for the Device

To keep your device in the best condition and protect the unit from damage, follow these directions:

CAUTION

- Do not subject the compressor or any of the components to strong shocks, such as dropping on the floor.
- Use only AVICHE authorized parts and accessories. Parts and accessories not approved for use with the device do not perform the expected specification or it may damage the unit.

CLEANING THE COMPRESSOR

Clean the casing of the main unit by using a soft cloth moistened with water or a mild detergent. Do not use abrasive cleaners. Dry the casing immediately using a soft clean cloth.

WARNING

Do not immerse the compressor (main unit) in water or other liquid.

CAUTION

- Unplug the power cord from the electrical outlet before cleaning the device.
- Do not insert any object into the compressor.

STORING THE DEVICE

Place the compressor, the nebulizer kit and the inhalation accessory (air tube, optional mouthpiece, masks and optional nosepiece) in the storage bag. Store it in a safe, clean location.

WARNING

- Do not leave the device or its parts where it will be exposed to extreme temperatures or changes in humidity, such as leaving the device in a vehicle during warm or hot months, or where it will be exposed to direct sunlight.
- Keep the device out of the reach of unsupervised infants and children. The device may contain small parts that can be swallowed.

▲ CAUTION

- Do not carry or leave the nebulizer kit with medication in the medication cup.
- Do not wrap the power cord around the compressor (main unit).

Troubleshooting

Troubleshooting Guide

PROBLEM	CAUSE	SOLUTION
No power to unit when the power switch is on.	The power cord is not plugged into an electrical outlet.	Turn the power switch off. Plug the power cord into an electrical outlet. Turn the device on.
No nebulization or low nebulization rate when the power is on.	No medication in the medication cup. Too much or too little medication in the medication cup.	Add the correct amount of prescribed medication to the medication cup.
	The nebulizer kit is not correctly assembled.	Make sure the nebulizer kit is correctly assembled and the inhalation accessory is correctly attached.
	The nozzle is blocked.	Clean and disinfect the nebulizer kit to remove the blockage.
	The nebulizer kit is tilted at an incorrect angle.	Hold the nebulizer kit correctly. Do not tilt the nebulizer kit so the angle of the kit is greater than 45 degrees.
	The air tube is incorrectly attached.	Make sure the air tube is correctly attached to the compressor and the nebulizer kit.
	The air tube is folded or damaged. The air tube is blocked.	Make sure the air tube is not folded, kinked or bent. Inspect the air tube for any damage. Replace the air tube if damaged.
	The air filter is dirty.	Replace the air filter with a new clean air filter.
The device is abnormally loud.	The air filter cover is incorrectly attached.	Attach the air filter cover correctly. Make sure the air filter cover is not blocked.
The device is very hot.	The compressor is covered.	Do not cover the compressor with any type of cover during use.
	Operating continuously over 30 minutes.	Limit use to 30 minutes at a time and allow a 30 minutes interval before using the device again.

Limited Warranty

Your AVICHE AH-C10 Medical Compressor Nebulizer, excluding the nebulizer kit, inhalation accessories, air tube and air filters, is warranted to be free from defects in materials and workmanship appearing within 3 years from the date of purchase, when used in accordance with the instructions provided with the compressor nebulizer. The above warranties extend only to the original retail purchaser.

We will, at our option, repair or replace without charge any compressor nebulizer covered by the above warranties. Repair or replacement is our only responsibility and your only remedy under the above warranties.

To obtain warranty service contact Customer Service by calling +86-400-800-9850 for the address of the repair location and the return shipping and handling fee.

Enclose the Proof of Purchase. Include a letter, with your name, address, phone number, and description of the specific problem. Pack the product carefully to prevent damage in transit. Because of possible loss in transit, we recommend insuring the product with return receipt requested.

THE FOREGOING IS THE SOLE WARRANTY PROVIDED BY AVICHE IN CONNECTION WITH THIS PRODUCT, AND AVICHE HEREBY DISCLAIMS ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IMPLIED WARRANTIES AND OTHER TERMS THAT MAY BE IMPOSED BY LAW, IF ANY, ARE LIMITED IN DURATION TO THE PERIOD OF THE ABOVE EXPRESS WARRANTY.

AVICHE SHALL NOT BE LIABLE FOR LOSS OF USE OR ANY OTHER SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT COSTS, EXPENSES OR DAMAGES.

This warranty provides you with specific legal rights, and you may have other rights that vary by jurisdiction. Because of special local requirements, some of the above limitations and exclusions may not apply to you.

FCC Statement

NOTE:

POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for U.S.A. only)
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If the product does cause harmful interference to radio or television reception, which can be determined by turning the product on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and the receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.




POTENTIAL FOR RADIO/TELEVISION INTERFERENCE (for Canada only)
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Canadian Department of Communications.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Specifications

Model	AH-C10
Type	Compressor nebulizer
Power Supply	AC200-240V 50Hz 120VA
Nebulization Rate	Approx. 0.25 mL/min
Particle Size	*MMAD approx. 3 μm (based on EN13544-1:2007)
Medication Cup Capacity	8 mL (cc) max.
Appropriate Medication Quantities	2 mL - 8 mL (cc)
Operating Condition	Intermittent operation 30 min. ON/30 min. OFF
Operating Temperature/Humidity	+5°C to +40°C, 10% to 80% RH, 700 hPa to 1060 hPa
Storage Temperature/Humidity/Air Pressure	-40°C to +55°C, 10% to 93% RH, 500 hPa to 1060 hPa
Weight	1.3kg (compressor only)
Dimensions	175x175x100mm
Contents	Compressor, Nebulizer Kit, Air Tube (PVC, 150 cm), Mouthpiece, Air Filters (Package of 2), and User Manual.
Classification	Class II equipment, Type B applied part

*MMAD = Mass Median Aerodynamic Diameter

= Class II equipment  = Type B applied part Read the user manual carefully
 = No operation  = Power on 

NOTES:

- Subject to technical modification without prior notice.
- Please note that nebulization rate and particle size may vary with medication type used.
- Parts and accessories not approved for use do not meet these specifications.
- Do not use the device where it may be exposed to flammable gas.
- This unit conforms to EMC Standard IEC60601-1-2. However, if it is used

together with other medical devices or electrical equipment, they may influence the operations of one of devices. Please follow any instructions in the manuals and use all devices correctly.

- With respect to electric shock and mechanical hazards only in accordance with IEC60601-1.

Guidance and Manufacturer's Declaration

Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PC's 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 IEC60601-1-2 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.

Medical devices manufactured by AVICHE conform to this IEC60601-1-2 standard for both immunity and emissions.

Nevertheless, special precautions need to be observed:

- The use of accessories and cables other than those specified by AVICHE, with the exception of cables sold by AVICHE as replacement parts for internal components, may result in increased emission or decreased immunity of the device.
- The medical devices should not be used adjacent to or stacked with other equipment. In case adjacent or stacked use is necessary, the medical device should be observed to verify normal operation in the configuration in which it will be used.
- 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 the device in case the distance is shorter.

The AH-C10 is intended for use in the electromagnetic environment specified below. The customer or the user of the AH-C10 should assure that it is used in such environment.

Electromagnetic Emissions IEC60601-1-2		
Emission Test	Compliance	Electromagnetic Environment — Guidance
RF Emissions CISPR 11	Group 1	The AH-C10 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Class B	The AH-C10 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic Emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/ Flicker Emissions IEC 61000-3-3	Complies	


Electromagnetic Immunity IEC60601-1-2

Immunity Test	IEC60601 Test Level	Compliance Level	Electromagnetic Environment — Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	±6kV contact ±8kV air	±6kV contact ±8kV air	Floor should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical Fast Transient/Burst IEC 61000-4-4	±2kV for power supply lines ±1kV for input/output lines	±2kV for power supply lines *1)	Mains power quality should be that of a typical commercial and/or hospital environment.
Surge IEC 61000-4-5	±1kV line to line ±2kV line to earth	±1kV line to line ±2kV line to earth	Mains power quality should be that of a typical commercial and/or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0.5 cycle	<5 % U_T (>95 % dip in U_T) for 0.5 cycle	Mains power quality should be that of a typical commercial and/or hospital environment. If the user of the AH-C10 requires continued operation during power mains interruption, it is recommended that the AH-C10 be powered from an uninterruptible power supply or battery.
	40 % U_T (60 % dip in U_T) for 5 cycles	40 % U_T (60 % dip in U_T) for 5 cycles	
	70 % U_T (30 % dip in U_T) for 25 cycles	70 % U_T (30 % dip in U_T) for 25 cycles	
	<5 % U_T (95 % dip in U_T) for 5 sec.	<5 % U_T (95 % dip in U_T) for 5 sec.	
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

Note: U_T is the A.C. mains voltage prior to application of the test level.

*1) The test of input/output lines is not applicable since they are shorter than 3.0m.

Electromagnetic Immunity IEC60601-1-2

Immunity Test	IEC60601 Test Level	Compliance Level	Electromagnetic Environment — Guidance
<p>Conducted RF IEC 61000-4-6</p>	<p>3 V rms 150kHz to 80MHz</p>	<p>3 V rms</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the AH-C10 including cables, than the recommended separation distance calculated from the equation appropriate to the frequency of the transmitter.</p> <p>Recommend separation distance $d = 1.2 \sqrt{P}$ $d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p>
<p>Radiated RF IEC 61000-4-3</p>	<p>3V/m 80MHz to 2.5GHz</p>	<p>3V/m</p>	<p>Field strengths from fixed RF transmitters as determined by an electromagnetic site survey,*2) should be less than the compliance level in each frequency range.*3)</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

Note 1: At 80 MHz and 800 MHz, the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

*2) Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the AH-C10 is used exceeds the applicable RF compliance level above, the AH-C10 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the AH-C10.

*3) Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the AH-C10

The AH-C10 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customers or the users of the AH-C10 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the AH-C10 as recommended below, according to the maximum output power of the communications equipment.

Output Power of the Transmitter in Watt	Separation distance according to frequency of transmitter in meter		
	150kHz to 80MHz $d = 1.2 \sqrt{P}$	80MHz to 800MHz $d = 1.2 \sqrt{P}$	800MHz to 2.5GHz $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.37	0.37	0.74
1	1.17	1.17	2.33
10	3.69	3.69	7.38
100	11.67	11.67	23.33

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

Note: At 80MHz and 800MHz, the separation distance for the higher frequency range applies.

Note: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

After-sales Service and Warranty Card

(Service Hotline: +86-400-800-9850)

1. Implement the national policy of Three Guarantees.
2. Free maintenance will be provided by AVICHE in case of quality problems within one year from the date of purchase. In case of such issues over one year, Users can seek services by right of invoice and warranty card to the after-sales service departments, branch offices and distributors of AVICHE, where the spare parts for maintenance will be provided with reasonable charges. If users can not provide invoice, the warranty period will be identified by extension of 13 months from the date of production.
3. The followings are not covered by the warranty:
 - 3.1 The Vulnerable Consumables.
 - 3.2 The liquid leaked by the users enters into the device to cause abnormal operation.
 - 3.3 Trouble caused by unauthorized demolition, repair or transformation of device.
 - 3.4 Trouble caused by accidental falling down in use or handling.
 - 3.5 Trouble caused by the failure to operate in accordance with the correct operations in user manual.
 - 3.6 The damage caused by unpredictable natural disasters (such as fire, earthquakes, floods, etc.

AVICHE

Warranty Card for Medical Compressor Nebulizer

Model	AH-C10		
Warranty Period	From	Y/ M/ D	to Y/ M/ D
Purchaser	Name		
	Address		
	Phone		
Sales Unit	Name		
	Address		
	Phone		
After-sales Service Instructions	<p>1. Warranty</p> <p>3.1 Since the date of purchase, the warranty period will last for 1 year, and free maintenance will be provided (except for force majeure and human factors).</p> <p>3.2 The affiliated gifts will not be covered within the warranty.</p> <p>3.3 Proof: Purchase records, shopping certificate, and invoice.</p> <p>2. Spare Parts</p> <p>Spare parts will be provided free of charge within the warranty period, and is subject to charges out of warranty period.</p> <p>3. Contact Information for After-sales Service</p> <p>Phone: +86-400-800-9850</p>		

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