Compressor nebulizer

Prava

NE-31 Instruction manual

ΕN



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Designated purpose of use of the device

The device is intended exclusively as a compressor inhalation system for aerosol therapy, which is determined by technical and operational parameters and functions, safety and user instructions and external influences of the operating environment.

ORAVA electrical appliances are manufactured according to current state-ofthe-art knowledge and recognized safety and technical rules. Nevertheless, incorrect and unprofessional use or use contrary to the intended purpose may result in the risk of injury or endangering the life of the user or a third person, or damage to equipment and other material values.

1. GENERAL SAFETY INSTRUCTIONS AND WARNINGS



Read all instructions before using the device!

- This document contains important safety instructions and warnings for safe, correct and economical operation of the electrical equipment. Its compliance helps the user avoid risks, increase reliability and product life.
- In this document, the generic term product is used in text parts such as: electrical equipment - any device used for the production, conversion, transmission, distribution or use of electricity.
- From the point of view of the purpose of using electricity, the concept of electrical equipment in the strict sense of the word will include the following categories:
 - household electric appliances,
 - information and communication equipment,
 - consumer electronics,
 - lighting equipment,
 - electrical and electronic tools,
 - toys and equipment for sporting and recreational

1.1 General safety instructions

- Before commissioning the unit, we recommend that you carefully read the operating instructions and operate the equipment in accordance with the instructions!
- The safety instructions and warnings in this manual do not cover all the
 possible conditions and situations that may arise when using the device. The
 user must understand that a factor that can not be incorporated into any of the
 products is responsibility and caution. These factors must therefore be ensured
 by users / users who use and operate this device.
- Failure to follow the safety instructions and warnings is forbidden by the manufacturer for any damage to health or property!
- Make sure that the appliance is complete and shows no signs of damage before using the appliance for the first time. If the product is defective or if it has any visible damage, do not use the product.
- Keep the operating instructions as close to the device as possible throughout its service life. Always keep the operating instructions together with the appliance for future use and use by new users.

- Use the appliance only for the purpose for which it is intended and in the manner specified by the manufacturer.
- The appliance is intended for home and similar indoor use, with no special focus.
- It is not a professional device for commercial use.
- Do not change the technical parameters and features of the device by unauthorized modification or modification of any part of the device.
- The manufacturer is not responsible for damages caused during transportation, misuse, damage or destruction of the equipment due to adverse weather conditions.

1.2 Safety of the operating environment

- Do not use the device in an industrial environment or outside environment.
- Always keep the operating environment clean and well lit.
- Do not place the device on an unstable surface. Overriding or dropping the device may result in personal injury or damage to the device.
- Do not expose the unit to direct sunlight or excessive heat sources.
- Do not use an electric appliance in areas with flammable liquids, gases or dust.
 The appliance may be the source of scaling, which can result in the ignition of
 dust or vapors.

Features of the operating environment

- 1. Ambient temperature: +5 ÷ +40 ° C
- 2. Humidity: 5 ÷ 85%
- 3. Altitude: ≤ 2 000 m
- Occurrence of water: intermittent condensation of water or occurrence of water vapor
- 5. Occurrence of foreign bodies: amount and type of dust are not significant Protection class: IP20
- Other characteristics of the operating environment (mechanical stress
 shocks and vibrations, occurrence of plant, animals, weather effects) are
 negligible in terms of effect on the correct and safe use of electrical equipment.

1.3 Electrical safety

- Before connecting the appliance to the power supply for the first time, make sure that the voltage on the appliance label corresponds to that of the household electrical outlet.
- The electrical appliance is designed for mains supply 230 V ~.
 The electrical safety of the appliance is guaranteed only if it is properly connected to the electricity grid.
- Only use a power cord with a plug (mains lead) that came with the device and compatible with a wall outlet. Using another cable may result in fire or electric shock.
- Always connect an electrical appliance to an easily accessible power outlet. In the event of an operating fault, the appliance must be switched off as soon as possible and disconnected from mains supply.
- Do not pull the power cord / power cord by pulling on the cord / cord.
 Disconnect the power cord by pulling the plug behind the power cord / power cord plug.
- If you use an extension cord, check that the total rated (ampere) power of all devices connected to the extension cord does not exceed the maximum current rating of the extension cable.
- If you need to use an extension cord or power supply block, make sure that
 the extension cord or power pack is plugged into a power outlet, and not to
 another extension cord or power supply. Extension power cord or power supply
 block must be designed for grounded plugs and plugged into a grounded
 outlet.
- The power plug of the appliance must be compatible with the mains socket.
 Never use any adapters or modify the socket in any other way. Do not use inappropriate or damaged soclets.
- To avoid electrical shock, plug the power cables into properly grounded electrical outlets. If the device is equipped with a 3-pin power supply cord, do not use adapters that do not have a grounding element or remove the grounding element from the plug or adapter.
- Do not bend, crush or otherwise expose the power cord / power cord of the appliance to mechanical stress or external heat sources. Damage to the power cord may result in electric shock.
- If the power cord is damaged, disconnect the appliance from the mains and do not use it again. If the power cord / power cord is damaged, it must be replaced by the manufacturer, its service department, or a qualified person to avoid the risk of electric shock.
- Regularly check and maintain the electrical appliance as well as the power cable. Disconnect the power plug regularly and clean it if necessary. Pollution by dust or other substances may cause disruption of the insulating state and consequently fire.
- Do not expose the appliance to water or moisture. The ingress of water into
 the appliance increases the risk of electric shock. If the power cord is wet
 or the appliance gets water, disconnect it immediately from the mains. If the
 appliance is plugged into a mains socket and if possible, turn off the power
 supply before attempting to disconnect the power supply. If you are pulling wet
 wires from a live power source, be very careful.
- If the electrical equipment is installed (connecting) the protective covers are dismantled, the electrical parts must not be accessible to the user when the installation is finished.

1.4 Safety of persons

- This appliance is intended for use by persons without an electrotechnical qualification (layperson) according to the instructions specified by the manufacturer.
- Device operation includes activities such as switching on and off, user manipulation and setting of operating parameters, visual or auditory inspection of the equipment, and user cleaning and maintenance.
- This appliance can be used by children 8 years of age and older and persons
 with reduced physical, sensory or mental abilities or lack of experience and
 knowledge only when under the supervision or guidance of the responsible
 person have been instructed to use the appliance in a safe way and
 understand the potential hazards.
- Cleaning and user maintenance can be carried out by children 8 years of age and older only under the supervision of the responsible person.
- Children may not play with the appliance.
- Always keep the appliance out of reach of children during use and operation.
 Be sure to download the appliance even for a freely accessible power cord.
- Always be careful when operating the electric appliance. Do not use an electric
 appliance if you are overly tired, under the influence of medication or narcotic
 drugs that reduce attention and focus. Inattention during operation may result
 in serious injury.

1.5 Cleaning, maintenance and repairs

- Observe the normal user cleaning and maintenance of the appliance in the recommended way. Do not use solvents or harsh cleaners for cleaning. Pollution and visible stains from finger contact, respectively. The hands can be cleaned using detergent detergents specially designed to clean household appliances.
- If you do not use the appliance, clean it or disconnect the appliance from the power supply when the appliance is faulty.
- Electrical appliances that are cleaned after use and are not intended to be completely or partly immersed in water or other liquid, protect against the effects of dripping and / or splashing water and before immersion.
- Electric household appliances, like all other technical devices, are subject to
 the surrounding environment and natural wear. Since the legal framework of
 regular maintenance is not laid down for lay-in electrical household appliances,
 the manufacturer recommends that the user have the appliance checked and
 cleaned at least once a year by a specialist workshop.
- By doing so, it is possible to achieve safety, operational reliability and increased service life.
- Do not disassemble the electric appliance! The appliance works with a
 dangerous voltage. For this reason, always switch off the appliance and
 disconnect it from the mains supply during user maintenance. In the event of a
 fault, please have the repair serviced by an authorized service center.
- Before calling a service:
 - 1. Turn the appliance off and on to make sure the fault reappears.
 - If the malfunction of the appliance still persists after these operations, call the nearest specialist service center.
- Never repair the electric appliance yourself!
- Unauthorized, unqualified and improper use of an electric appliance may result in electric shock or other serious injury.
- Only carry out the warranty or post-warranty repair of an electrical appliance to an authorized qualified person (*).
 - (*) Competent qualified expert: the sales department of the manufacturer or importer or the person qualified and authorized to carry out this type of activity with the ability to avoid all risks.

Special safety warnings

 The electrical equipment is designed and manufactured in such a way as to enable safe operation and use by persons without professional qualifications. Despite all measures taken by the manufacturer for safe use, operation and use carry with it certain residual risks and possible dangers associated with them.

To warn of possible dangers, the following symbols and their meanings have been used on the device and in the accompanying documentation:



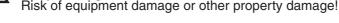
This symbol warns users that the device is working with dangerous electrical voltage. Do not remove protective covers on the device. If you do not follow the safety instructions when using and operating the device, there is a risk of:

Danger of electric shock!

Risk of serious injury or life-threatening!



This symbol warns users that if the safety instructions are not followed when using and operating the device, there is a risk of: Risk of serious injury or danger to life!





This symbol means that the product is made with double insulation between dangerous live parts (parts with dangerous voltage from the mains) and parts that are accessible during normal use.

Transportation/Carrying

- Only transport the device after a thorough inspection of the space and route, which must be clear of obstacles.
- Never move the device while it is in operation. Do not move the device while it is connected to the mains socket.
- When carrying, make sure that your hands and the device are not wet or slippery. Risk of serious injury or death! There is a risk of damage to the device!

Unpacking/Packaging

 Before putting the device into operation, unpack and remove all its parts and accessories from the remains of packaging materials, labels and tags. Put all packaging materials in a safe place or keep them especially out of the reach of children and incompetent persons.

Risk of serious injury! Danger of suffocation!

Inspection/Commissioning

- After unpacking the device, inspect the compressor and accessories for visible damage or defects such as cracks in the plastic casing that could expose electrical components.
- Never use the device if it is incomplete, damaged or any part of it has been damaged during use. Have the device repaired by a specialist service.
- Before using the device for the first time, wash the accessories with water and dishwashing detergent. Rinse it thoroughly and dry it.

- Before connecting the device to the mains socket, make sure that the nominal voltage indicated on the nameplate matches the voltage in your socket.
- Before using the device, clean it as described in the section "Cleaning and disinfection of accessories".
- Only connect the device to a properly grounded outlet. Risk of serious injury!
 Warning!

The device is intended for home use. This is not a professional device.

 Be careful not to let the controller come into contact with water - the device could be damaged.

Do not use the device in an industrial environment or outdoors.

If the cover is damaged, stop using the device for safety reasons.

- You must not leave the device unattended if it is connected to an electrical socket. voltage.
- If your hands are wet or damp, do not touch the device that is connected to the electrical socket. voltage.
 Risk of electric shock! Risk of serious injury!

 If you feel discomfort or pain or irritation while using the device, stop using the device.

- Do not forget to always turn off the device with the main switch and disconnect it from the mains socket after each use.
- The device must not be used if it has fallen on the ground or shows visible signs of damage.

Make sure that the mains cable does not come into contact with water.

 Do not disconnect the device from the mains socket by pulling on the mains cable. The mains cable or mains socket could be damaged. Disconnect the cable from the socket by pulling the plug of the network cable.

 If the network cable is damaged, have it replaced by a professional service center. It is forbidden to use the device with a damaged mains cable or mains

cable plug.

 To avoid the risk of electric shock, do not repair or modify the device yourself. Refer all repairs to an authorized service center. By tampering with the product, you expose yourself to the risk of losing your legal right due to faulty performance, or quality guarantees. Risk of serious injury!
 There is a risk of damage to the device or other material damage!
 Risk of electric shock!

Danger of electric short circuit!

Location/Installation

 Children under the age of 3 must be prevented from accessing unless they are permanently supervised.

 Children from 3 years of age and under 8 years of age must not connect to the socket, regulate it, or clean or perform user maintenance.

Warning!

- Place the device in a place where children cannot freely reach it. Prevent children from handling (playing) with the device. The device may tip over and cause very serious injury.
- Mechanical damage (crack or breakage of parts and covers) of the device can cause serious injury.

Risk of serious injury or death!

There is a risk of damage to the device or other material damage!

- The device is not intended to be used by persons with reduced physical, sensory or mental capabilities. Persons with insufficient experience or knowledge may only use if their person responsible for their safety will familiarize them with the use in advance and teach them to use it under supervision.
- Store the device out of the reach of animals. Devices can tip over and cause mechanical damage (crack or break parts and covers) to the device can cause serious injury.
- The device must be used and stored on a stable surface.
- Always make sure that the place where you want to place the device has sufficient space, stability, and mechanical strength.
- Do not place the device on or near electric or gas cookers and other heat sources.
- During normal use, always first connect the device to the power supply and then turn it on with the main switch - regulator.
- After the end of use, turn off the device with the main switch regulator and then pull out the plug of the power cable from the mains socket.
- Never cover the switched-on device (with a blanket, pillow...)
- When you are not using the device, cleaning it, putting accessories on it, or when a malfunction occurs, disconnect the device from the mains.
- The electrical socket and power cord must remain easily accessible for safe disconnection of the device from the electrical network.
- Never leave the device unattended and freely accessible with the power cable hanging freely. Children, disabled persons or animals could pull the device by the power cord.
- Do not store the device with the power cord wrapped around its body. "Freely fold" the power cord in the way it was folded in the original packaging from the manufacturer.
 - Risk of serious injury!

Instructions for use

- Use the device only for its intended purpose as described in these instructions for use as a compressor inhalation system for aerosol therapy. Follow your doctor's instructions.
- Any other method of use constitutes improper use and may be dangerous.
- The manufacturer is not responsible for damages caused by incorrect, incorrect or inappropriate use, or if the device is connected to an electrical installation that does not comply with safety regulations.
- Keep these operating instructions for future reference.
- Do not use the device in the presence of any anesthetics, flammable mixtures or oxygen.
- Correct operation of the device can be affected by electromagnetic interference that exceeds the limits specified in valid European standards.
- If this device is interfering with another electrical device, remove it and plug it into a different electrical socket.
- Do not open the compressor cover in the event of a malfunction and/or malfunction.
- The proper function of the device may be compromised if original spare parts (e.g. filter) are not used.

 Certain important safety precautions should always be followed when using any electrical device, including the following:

Use only original accessories and parts;

- Never submerge the device in water, because the device is not protected against the ingress of water;
- Never touch the device when your hands are wet or damp;

- Do not leave the device outside;

- During operation, place the device on a stable and horizontal surface;

- Make sure the ventilation holes are not blocked;

- Do not allow unsupervised children or physically disabled persons to use the device:
- Do not turn off the unit by simply pulling the plug from the electrical socket
- Before connecting the device, make sure that the electrical parameters indicated on the type plate on the bottom of the device correspond to the mains voltage and frequency of the electrical network.

Do not use any adapter, single or multiple, and/or extension cable.

- Do not leave the device plugged in when not in use. When not in use, unplug the device from the power socket.
- When installing the device, follow the manufacturer's instructions. The manufacturer is not responsible for any damage caused by incorrect installation.
- The power cord should always be fully unwound to prevent dangerous overheating.
- Before performing any cleaning operation or changing the filter, disconnect the device from the mains supply by disconnecting the plug or turning off the main switch.

Don't forget about it

- Use this device only with medications prescribed by your doctor;

Use accessories recommended by your doctor for treatment; Verify that
prescription medications can be used with conventional compressor inhalation
systems for aerosol therapy.

WAŔNING!

- This device is rated to be used for 30 minutes on, then 30 minutes off.
- After use, turn off the device by setting the switch to the "O" position and disconnect the plug from the electrical socket.

Cleaning/Maintenance

Cleaning the external parts of the compressor equipment

- Use a clean dry cloth and mild detergents to clean the outside of the device.
 WARNING!
- During cleaning, make sure that the internal parts of the device do not come into contact with liquids and that the power cable is not connected.

Accessories cleaning and disinfection

After each treatment:

- The atomizer set can be cleaned by washing in liquid soap and water and then disinfected by boiling in water (max. 10 minutes) or in an autoclave (max. 121°C for 10 minutes). It is recommended to disinfect the mask and the angle mouthpiece using cold disinfectant liquids. Dry the atomizer with a clean cloth. After drying, connect it to the air outlet and turn on the compressor to verify that it is functional after cleaning.
- Dry the atomizer with a clean cloth. After drying, connect it to the air outlet and turn on the compressor to verify that it is functional after cleaning.
- Do not boil or autoclave the angle mouthpiece, air tube or masks.
- It is important that the cleaning instructions are carefully followed to ensure optimal function.
- Replacement of the nebulizer.
- The nebulizer should be replaced after a long period of inactivity or if it is blocked by dry medication, dust, etc. With normal use, your inhaler should last at least 6 months.

Filter replacement

- The filter should be replaced after approximately 30 hours of use or when it appears dirty. Open the filter holder and replace the filter with a new one. Use only original filters.
- Do not use the device without a filter.

Characteristic properties

This device is a compressor powered air nebulizer system from an electrical socket designed to provide compressed air for medical purposes for use in home health care. It is intended for use with a nebulizer kit for producing aerosol particles of medicinal substances

for respiratory therapy for children and adults. The device is actually an inhaler for spraying liquids and liquid medicines (aerosols) and effective treatment of the upper and lower respiratory tract.

By spraying and inhaling medicinal substances prescribed or recommended by a doctor, you can prevent respiratory tract disease, alleviate its symptoms and speed up treatment.

Ask your doctor or pharmacist for more information on the possibilities of use. The device is suitable for inhalation at home. Inhalation of medicines should be carried out only according to the instructions of the doctor.

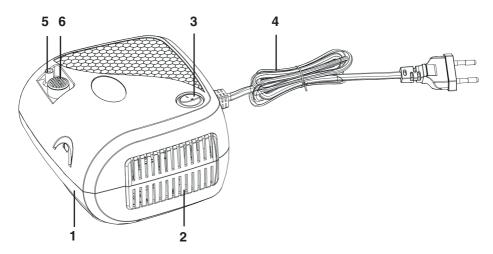
Inhale calmly and relatedly and inhale slowly and deeply so that the medicine can penetrate deep into the delicate and deep-seated structures of the bronchi. Exhale normally.

The device does not need to be calibrated.

The device is capable of repeated use after preparation. This preparation includes the replacement of all accessory parts, including the atomizer and air filter, as well as the disinfection of the surface parts with a common disinfectant.

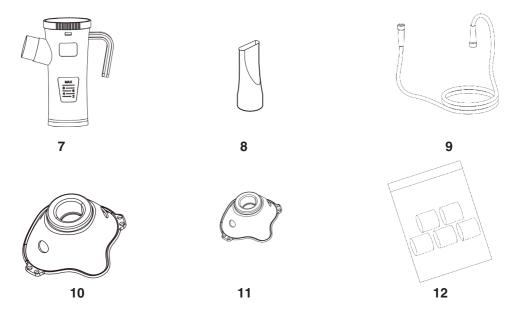
Parts desciriptions

Device



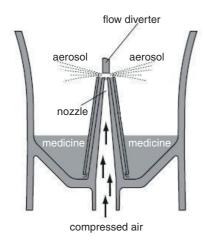
- 1 Body of the device
- 2 Air intake
- 3 Power switch (O/I)
- 4 Power cord
- 5 Air outlet
- 6 Filter holder

Accessories



- 7 Sprayer
- 8 Mouthpiece
- 9 Pressure hose
- 10 Mask for adults
- 11 Mask for children
- 12 Replacement filters

How the spray chamber works



The stream of compressed air from the compressor is redirected through the nozzle, where in the head of the decompression chamber, it mixes with the drug and is directed upwards.

The drug is converted into a fine aerosol and is directed upwards to the flow deflector, where it breaks up into large quantities of smaller aerosol particles.

Assembly and operation

Preparation

- Unpack the device and remove all packaging material from it and remove any protective films.
- Before first use, check both the device and accessories for visible damage or defects, such as cracks in the plastic cover that could expose electrical components. Contact your dealer or customer service and report any damaged product.
- Before using the device, always clean it as described in the section "Cleaning and disinfection of accessories".

INSTALLATION

Location!

 Place the device on a solid and level surface in an area with at least 30 cm of free space around the device to ensure proper air circulation, for example on a table.

Using

- 1 Open the atomizer (7) by turning the top counter-clockwise.
- 2 Check that the valve is correctly positioned inside the atomizer chamber.
- **3** Pour isotonic saline solution or the prescribed concentration of the medicinal substance into the vial.
 - The maximum filling volume is 6 ml.
 - Use medicines only according to the doctor's instructions and recommendations and find out about the appropriate length and frequency of inhalation!
 - If the prescribed quantity of medicinal substance is less than 2 ml, top it up with isotonic saline solution to at least 4 ml.
 - Dilution is also important for viscous drugs. Even in this case, follow the doctor's instructions.
- 4 Close the atomizer by holding the lower part and turning the upper part clockwise, making sure that the atomizer (7) is firmly closed.
- 5 Connect one end of the air pressure hose (9) to the atomizer (7) and the other end to the air outlet (5) on the device (1).
- 6 Place the mouthpiece (8) on the atomizer (7).

7 If you are using a face mask, fold the mouthpiece (8) and place the mask (10/11) directly on the nebulizer (7).

Warning!

Inhalation with a mouthpiece is the most suitable form of therapy. The use of a mask for inhalation is recommended only if it is not possible to use a mouthpiece (e.g. in children who cannot yet inhale with a mouthpiece). If you use an adult mask (10), you can fix it on your head with the fixing strap. Even the mask for children (11) comes with a fastening strap of the corresponding size.

- 8 Plug the device (compressor) (1), i.e. its power cord (4) into the electrical socket and the electrical network (so that the types of voltage in the electrical network correspond to the voltage indicated on the label on the bottom of the device.
- 9 To start the treatment/inhalation, turn on the device by pressing the O/I button (3) to the "I" position. Stream from a fast-acting atomizer.

10 Inhalation

- While inhaling, sit straight and relaxed at the table and not in a chair, so as not to compress the airways and limit the effectiveness of the therapy.
- · Inhale the sprayed medicinal substance deeply.

Warning!

The device is not intended for long-term operation. After 30 minutes of use, it must be for 30 minutes.

Warning!

During hold the nebulizer vertically), otherwise the therapy will not work (nebulization and the correct function of the device will not be guaranteed.

Warning!

Essential oils from medicinal plants, cough syrups, gargle solutions, drops for rubbing or for steam baths are fundamentally unsuitable for inhalation using inhalers. These ingredients are often thick and can contribute to the good advantage of the device and thus the efficiency of use. In case of hypersensitivity of the bronchial system, medicines with essential oils can in some cases cause acute bronchial spasm (sudden spasmodic narrowing of the bronchi with shortness of breath). ask your doctor or pharmacist!

11 Termination of inhalation

If it flows only irregularly, or if the device changes during inhalation, it cures therapy.

After completing the treatment, turn OFF the device by setting the O/I switch (3) to the "O" position and the power cord from the electrical socket.

12 Wash the inhaler and accessories as described in the section "Cleaning and disinfection of accessories".

AFTER USE

Notice!

If you end the treatment earlier, the residual water or medicinal substance from the nebulizer reservoir (7) empty after each use. Otherwise, water deposits or an unusual odor may occur.

- 1 Let the device cool down for at least 10 minutes.
- 2 Disconnect the power cord from the electrical socket and pour out any residual liquid from the atomizer (7) and wipe the drops of liquid on the surface.
- 3 Hold the sprayer (7) so that your hands are not exposed to hot water. Otherwise, scalding or burns may occur.
- 4 If you are not going to use the device for a long time (more than a few weeks), no liquid must remain in it.

Cleaning and maintenance

- Clean the device and accessories regularly after each use or once a month.
- The device must be switched off and the power cord must be disconnected from the electrical socket.
- Use a clean dry cloth and non-aggressive detergents to clean the outside of the device (1).

Warning!

During cleaning, make sure that the internal parts of the device are not in contact with liquids and that the power cord is not plugged into the electrical socket.

Cleaning and disinfection of accessories

After each inhalation:

- The atomizer (7) can be cleaned by washing in liquid soap and water and then disinfected by boiling in water (max. 10 minutes) or in an autoclave (max. temperature 121 °C for 10 minutes).
- It is recommended to disinfect the mask (10/11) and the mouthpiece (8) using cold disinfectant liquids.
- Wipe the atomizer (7) dry with a clean, dry cloth. After complete drying, connect it to the air socket (5) and turn on the device (1) to check if it works after cleaning.

Warning!

- Do not boil or autoclave the angle mouthpiece, air tube or masks
- It is important that you follow the cleaning instructions carefully to ensure optimal operation.

Replacing the atomizer

The nebulizer (7) should be replaced after a long period of inactivity or if it is clogged with dried drug residues, dust, etc. With normal use, the nebulizer should last fully functional for at least 6 months.

Filter replacement

The filter needs to be replaced approximately every 30 hours of use, or when it appears to be dirty and clogged.

- Open the filter holder and replace the filter (supplied) with a new one. Use only the original supplied filters (12).
- Do not use the device without a filter.

Warning!

- Do not use solvents, thinners, alcohol or harsh detergents to clean the device or accessories. After cleaning, the equipment and accessories must remain completely dry
- Make sure that water does not get inside the device!
- · Do not wash the device or accessories in the dishwasher!
- Do not touch the device with wet hands when it is switched on, do not splash water on the device.
- The device may only be used when it is completely dry.
- Do not spray any liquid into the air intake slots (2)!

Liquid that would enter the cracks can damage the electronics and other components of the device and cause the device to malfunction.

Condensed water, tube maintenance

Condensed water may form in the tubing depending on the relevant ambient conditions. To prevent the multiplication of microorganisms and ensure problem free therapy, it is absolutely necessary to remove all moisture. Proceed as follows:

- Remove the pressure tube (9) from the atomizer (7).
- Leave the tube (9) on the air socket (5) of the device (1).
- Leave the device on until the moisture is completely dried by the air flow.
- In case of heavy contamination, replace the tube.

More precise disinfection

When disinfecting the nebulizer and its accessories, follow the points below carefully. We recommend disinfecting individual parts no later than after the last use of the given day. Vinegar and distilled water are needed for disinfection.

- First clean the nebulizer and its accessories as described in the chapter "Cleaning and disinfection of accessories".
- Place the atomizer and mouthpiece in boiling water for 5 minutes.
- For other accessories, use a vinegar solution consisting of ¼ vinegar and ¾ distilled water
 - Uistite sa, že množstvo roztoku stačí na to, aby v ňom boli jednotlivé diely, teda rozprašovač, maska a náustok úplne ponorené.

- Leave the parts in the vinegar solution for 30 minutes.
- Wash the individual parts with water and dry them thoroughly with a soft, dry cloth.
- When the parts are completely dry, store them in a suitable dry and closed container.

Warning!

- Do not boil or sterilize the pressure tube and masks in an autoclave.
- After cleaning, all parts must be thoroughly dried, otherwise the risk of microorganism multiplication increases.

Sterilization

- Use cold sterilization solutions according to the manufacturer's instructions
- After sterilization, spread the individual parts on a dry, clean and absorbent surface and let them dry completely (minimum 4 hours).

Material resistance

- The atomizer and accessory parts are subject to certain wear and tear with
 frequent use and after hygienic treatment, just like any other plastic parts.
 Over time, this can lead to a change in the properties of the medicinal
 substance and thus to a negative impact on the effectiveness of the therapy.
 We therefore recommend replacing the sprayer and other accessories after a
 year at the latest.
- When choosing cleaners, resp. disinfectants, the following instructions must be observed:
 - Use only gentle cleaning or disinfecting agents and dose them according to the manufacturer's instructions.

Storage

- Do not store the device or accessories in damp areas (e.g. in the bathroom) and do not transport together with damp objects.
- During storage and transportation, protect the device and accessories from permanent direct sunlight.
- Store the accessories and the device in a dry place, preferably in the original packaging.

Troubleshooting and disposal of unnecessary equipment

Problems/Questions	Possible causes/solutions/answers
The nebulizer does not generate any vapor or only a small amount of it is generated	1. Too much or too little amount of medicinal substance in the nebulizer. Minimum: 2 ml, Maximum: 6 ml. 2. Check that the socket is not blocked air, or clean the air socket (flush). Then start the atomizer again. WARNING Carefully clean the small holes. 3. You do not hold the atomizer vertically. 4. You have filled the inhalation liquid without suitable for spraying (e.g. too thick). The inhalation liquid should be prescribed by a doctor.
The output pressure is too weak.	Kinked tubing, clogged filter, too much inhalation solution.
What medicinal substances can be inhaled?	Consult your doctor. In principle, all suitable and approved medicinal substances can be inhaled for inhalation using devices.
The inhalation solution remains in the nebulizer.	This results from a technical solution and is normal. Stop inhaling as soon as you hear a significantly different nebulizer noise.

Problems/Questions	Possible causes/solutions/answers
What should be taken care of in infants and children?	1. To ensure effective inhalation, the mask should cover the mouth and nose of infants. 2. For children, the mask should also cover mouth and nose. Spraying on sleeping persons is not very effective, because a sufficient amount of the medicinal substance cannot reach the lungs. Warning: Children should inhale only under supervision and with the help of an adult and should not be left alone.
Does inhalation take longer with a mask?	It is given by the technical solution. Through the holes in the mask, you inhale a smaller amount of medicinal substance with each inhalation than through the mouthpiece. Passing through the holes, the steam mixes with the surrounding air.
Why should the nebulizer be replaced regularly?	There are two reasons: 1. To ensure an effective spectrum of particles from a therapeutic point of view, the opening should not exceed the specified diameter. Mechanical and thermal plastics are subject to certain wear due to stress. The atomizer is a very sensitive part. Due to wear and tear, the composition of the steam droplets may change, which directly affects the effectiveness of the treatment. 2. In addition, we recommend regular replacement of the nebulizer for hygienic reasons.
Does each user need their own nebulizer?	It is absolutely necessary for hygienic reasons.

Technical specifications

Power supply: 220 - 240 V~ 50/60 Hz

Rated power: 45 W

Classification:

Operating pressure range:

Flow range:

Particle size:

Inhalation power:

Noise level:

Type BF ★

12 - 14.5 PSi

8 -10 LPM

3.0 μm

0.2 ml/min.

60 dB (A)

Atomizer volume: 6 ml

Dimensions (W x D x H): 15 x 14 x 10.5 mm

Weight: 1.3 kg

The declared value of the noise emission of this appliance is 60 dB (A), which represents level A of the acoustic power with respect to the reference acoustic power of 1 pW.

Package contents: device (1), atomizer (1), pressure tube (1),

mouthpiece (1), mask for adults (1), mask for children (1),

spare filters (5), instructions for use (1)

The right to make changes reserved!

This device meets the requirements of the European directive 93/42/EEC.



The date of manufacture is marked on the nameplate of the device.



Manufacturer:

FOSHAN HONGFENG Co., Ltd.

No.4-2, Legiang Road, Leping Town, Sanshui District, Foshan City, Guangdong Province, P.R. China



Authorized representative for the EU: **MedNet EC-REP Gmbh**

Borkstrasse 10 48163 Munster, Germany



The batch number is marked on the device packaging.



The serial number is marked on the packaging of the device.



Temperature limits

IP20 Protection against ingress of water or solid particles



Before using the device, read the instructions manual



Type BF device

Importer:

ORAVA retail 1, a.s.
Seberíniho 2
821 03 Bratislava
Slovenská republika
ORAVA distribution CZ, s.r.o.
Ostravská 494
739 25 Sviadnov
Česká republika

INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING

Dispose of used packaging material at a municipal waste disposal site.

DISPOSAL OF USED ELECTRICAL AND ELECTRONIC EQUIPMENT



This symbol on the products or in the accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper disposal, recovery and recycling, please return these products to designated collection points. Alternatively, in some countries of the European Union or other European countries, you may return your products to your local retailer when purchasing an equivalent new product. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment natural resources and help prevent potential negative effects on environment and human health, which could be the consequences of improper disposal waste. Contact your local authority or nearest office for more detailscollection point. Improper disposal of this type of waste may result in penalties in accordance with national regulations.

For business entities in the countries of the European Union

If you wish to discard electrical and electronic equipment, please request the necessary information from your seller or supplier.

Disposal in other countries outside the European Union

This symbol is valid in the European Union. If you wish to discard this product, please request obtain the necessary information on the correct method of disposal from the local authorities or from the your supplier.