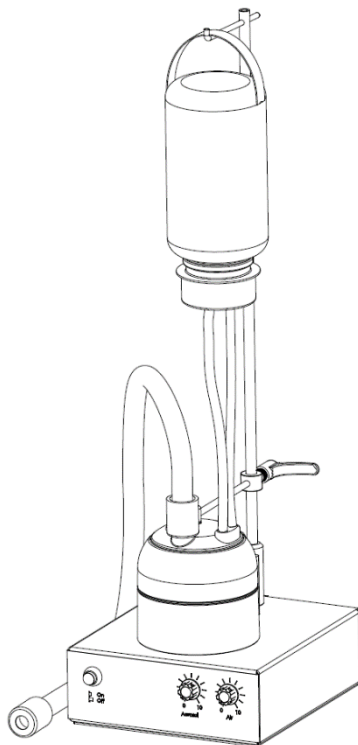


Dear customer,



Thank you for purchasing this ultrasonic nebulizer. Please read this instruction manual carefully before using the unit as it contains important health and safety information. Please keep your instruction manual at hand all the time.

Be sure to use unit properly according to instructions given by veterinary professionals. Only use solutions to nebulize as prescribed and instructed by your veterinary professional.

We wish you good health and all the best in the future.

With best regards,

PRIZMA

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History of document revisions

<i>Version</i>	<i>Date</i>
1.0	Dec 2019
2.0	Jan 2021

Intended use

Intended use	The device is intended for successful treatment of equine respiratory disorders. Use it only according to recommendations issued by veterinarian.								
Working environment	<p>Device is intended for use in veterinarian facility, general horse stable or horse trailer.</p> <p>It is assumed that:</p> <ul style="list-style-type: none"> • nebulizer is placed on a plain and stable surface during operation; • operator is in the vicinity of the nebulizer; • the horse is carrying mask over breathing openings or device is nebulizing aerosol in cabin or horse trailer in front of equine. 								
Lifetime	<p>Lifetime of main parts of device if based on 8 hour operation with saline, at room temperature (23 °C). Lifetime may vary depending on working environment.</p> <table> <tr> <td>Main unit</td><td>5 years</td></tr> <tr> <td>Inhalation hose</td><td>1 year</td></tr> <tr> <td>Medication supply set</td><td>1 year</td></tr> <tr> <td>Equine mask</td><td>1 year</td></tr> </table>	Main unit	5 years	Inhalation hose	1 year	Medication supply set	1 year	Equine mask	1 year
Main unit	5 years								
Inhalation hose	1 year								
Medication supply set	1 year								
Equine mask	1 year								
Precautions for use	User must read warnings and cautions described in this instruction manual.								

Exclusions and limitations of liability



Please understand that PRIZMA is not liable for the following:

1. Any trouble and/or damage caused by the maintenance and/or repair conducted by other than PRIZMA or PRIZMA's authorized dealer.
2. Trouble and/or damage of PRIZMA's product caused by the product of other manufacturer not delivered by PRIZMA.
3. Trouble and/or damage caused by maintenance and/or repair using the repair part(s) not authorized by PRIZMA.
4. Trouble and/or damage caused as a result of not observing the Notes on Safety or operating method mentioned in this Instruction manual.
5. Deviation from the operating conditions of the product mentioned in this Instruction manual including the power source and installation environment.
6. Trouble and/or damage caused as a result of modifying and/or improper repair of the product.
7. Trouble and/or damage caused by natural disasters such as fire, earthquake, flood or lightning.













1. The content of this Instruction manual are subject to change for improvement without prior notice.
2. The content of this Instruction manual has been prepared with care and attention. However, if you find any omission or error, please inform your local PRIZMA representative or dealer.
3. It is prohibited to copy all or a part of this Instruction manual without getting PRIZMA's permission. Unless you use this Instruction manual for your personal (corporate) purpose, you are not allowed to use it without PRIZMA's permission in accordance with the Copyright Act.


Safety notes

- The warning signs and the sample icons shown here are listed for you to use this product safely and correctly as well as to prevent the risk of injury.
- The icons and meanings are as follows:



Icon	Meaning
 Warning	It indicates matters in which the possibility of death or severe bodily injury may arise as a result of incorrect handling.
 Caution	It indicates matters in which bodily injury or material damage* may arise as a result of incorrect handling.


* Material damage refers to a wide range of damage involving your house, household goods, domestic animals and pets.

Examples of icons		
The  icon indicates caution (including warning and danger). Situations involving actual caution are indicated by statements or pictures in or near  .	 The icon refers to "caution for flammability".	 The icon refers to "caution for electric shock".
The  icon indicates prohibitions (what you cannot do). Matters involving specific prohibitions are indicated by text or pictures shown in or near  .	 The icon refers to "prohibition to disassemble".	 The icon refers to "general prohibition".
The  icon indicates something that is compulsory (must be observed at any time). Situations involving specific compulsory actions are indicated by statements or pictures shown in or near  .	 The icon refers to "general compulsion".	 The icon refers to "unplugging the power plug".

Warning	
<p>When you use the unit for the first time after purchasing it or after having not used it for a long time, be sure to clean and disinfect it.</p> <ul style="list-style-type: none"> • Miscellaneous types of bacteria may propagate. <p>Clean and disinfect the inhalation hose each time the unit is used.</p> <ul style="list-style-type: none"> • Miscellaneous bacteria may propagate. <p>Be sure to immediately dry the cleaned and disinfected parts of device, and then store them in a dry place in order to prevent them from getting contaminated in the future.</p> <p>In case of any problem with your nebulizer please contact PRIZMA service representative.</p>	

Safety notes

Warning	
<p>Do not use this device in presence of explosive gases or in areas with high risk of explosion.</p> <p>Use with non-flammable liquids only.</p> <p>When assembling the cleaned, disinfected and dried parts, do not touch the places where the medication and nebulized medication pass through directly with your hands to prevent possible infection.</p> <p>Do not make any contact with the vibrator while the power plug is plugged into the electric outlet.</p> <ul style="list-style-type: none">• You may suffer electric shock or you may injure yourself.	
<p>Do not plug in or pull the power plug from the electric outlet with wet hands.</p> <ul style="list-style-type: none">• You may suffer electric shock or you may injure yourself. <p>Do not wash the main unit with water or splash water to the power source, never submerge the nebulizer in water.</p> <ul style="list-style-type: none">• Short circuit may occur in the unit or you may suffer electric shock.	

Warning	
<p>Clean the nebulizer with disinfectant and wash off thoroughly with water.</p> <p>If the nebulization parts have already become contaminated before using the unit, clean them first before use.</p> <p>Replace the water in the water tank each time you use the unit.</p> <ul style="list-style-type: none">• A dirty vibrator may cause lower nebulization rate. <p>Disposal of the product should be carried out in accordance with the national regulations for the disposal of electronic products.</p>	

Safety notes

Caution

This equipment can be connected to a supply mains with protective earth, or 12V DC battery.

If you are not going to use the unit for a long time, be sure to unplug the power plug from the electric outlet.

Be sure to turn off the power and unplug the power plug from the electric outlet when you install or remove the device or take care of the components.



Do not look into the nebulization section during nebulization.

- A large amount of medication may get into your eyes and cause injury.

Do not operate the unit when the medication cup is empty.

- The unit may be overheated or damaged.

Do not fill the water tank with the liquid other than distilled or demineralised water.

- The vibrator will deteriorate and may get damaged.

Do not use the power cord or the power plug if it is damaged, or do not plug the power cord into a loose electric outlet.

- You may suffer electric shock or the unit may ignite due to short circuit.

Do not scratch, tear, modify, forcibly band, pull, twist, or bundle the power cord. Do not place a heavy material on the power cord. Keep power cord away from heated or hot surfaces.

- You may suffer electric shock or the unit may ignite due to short circuit caused by the deteriorated insulation.



Do not disassemble, repair, or modify the unit in any way.

- The unit may malfunction or cause injury.

Contact your nearest PRIZMA service representative.



Do not use the power cord other than the supplied one.

- The unit may ignite or you may suffer electric shock.

Be sure to use the power source as specified on the device.

- The unit may ignite or you may suffer electric shock.

Do not share the electric outlet with other electric appliances.

- The unit may ignite or you may suffer electric shock.

To unplug the power plug from the electric outlet, do not pull the power cord; instead hold the power plug with your hand.

- The power cord may be broken or short-circuited. It may cause fire or you may suffer electric shock.



Safety notes

General Advice

Do not use the unit for any purpose other than for therapy of equine.

Do not use any parts other than the accessories or the optional components listed in this Instruction Manual.

Do not fill the medication cup with more than 150ml medication.

Do not move the unit while medication still remains in it.

Do not block the air ventilation holes at the bottom side.

Place the nebulizer on a plain and stable surface during operation.

Do not apply strong shocks to or drop the main unit.

Do not bend the inhalation hose.

- The medication may be pooled in the hose and the nebulization rate may be lowered.

Be careful not to damage the vibrator when cleaning the water tank of the main unit.

Do not disinfect the unit by boiling in a microwave oven.

After cleaning and disinfecting the components, assemble them after they are completely dried.

Do not wipe the main unit with volatile chemicals, such as benzene or thinners.

Although the nebulizer fulfils the provisions of the EMC (Electromagnetic Compatibility) directive, the use of it should be avoided in direct vicinity of other electric devices.

Do not allow unsupervised children or infirm persons to use the unit.

Maintenance

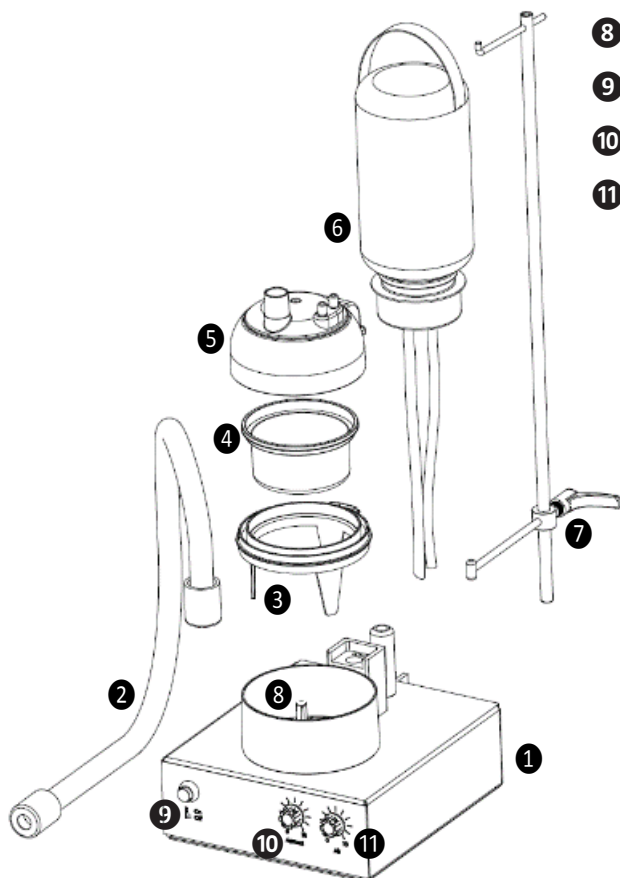
Before using the unit, be sure to confirm that the main unit operates normally and safely.

How to handle failures or accidents

If an equipment error occurs, immediately take the following measures:

- 1) Power-off the unit and unplug the power plug from the electric outlet.
- 2) Write 'Faulty-Do not use' on the main unit so that it will not be used.
- 3) Contact the store where you purchased the unit or PRIZMA.

Components of the product



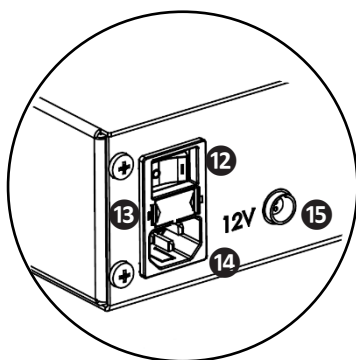
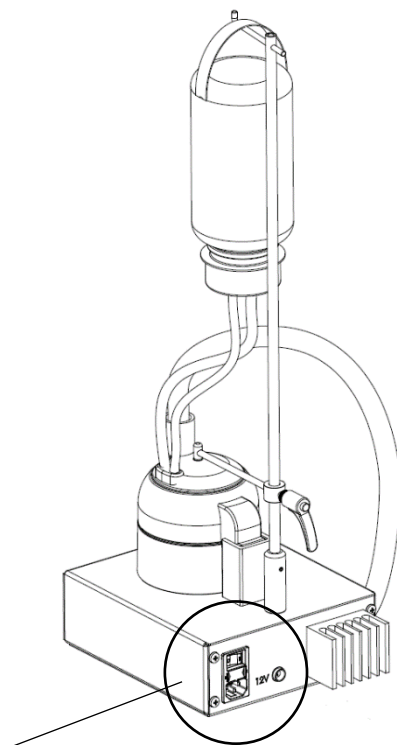
- ❶ - Main unit
- ❷ - Inhalation hose
- ❸ - Medication cup holder
- ❹ - Medication cup
- ❺ - Medication cup cover
- ❻ - Medication supply set
- ❼ - Medication supply holder
- ❽ - Water tank
- ❾ - Start/stop button
- ❿ - Aerosol rate knob
- ⓫ - Air-flow knob

Components of the product

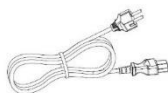
- 12 - Power button
- 13 - Fuses
- 14 - Electric power socket 220V AC
- 15 - Electric power socket 12V DC
- 16 - AC Power cord
- 17 - DC power cable

Optional parts:

- 18 - Equine mask
- 19 - Inhalation hose holder



16



17



18



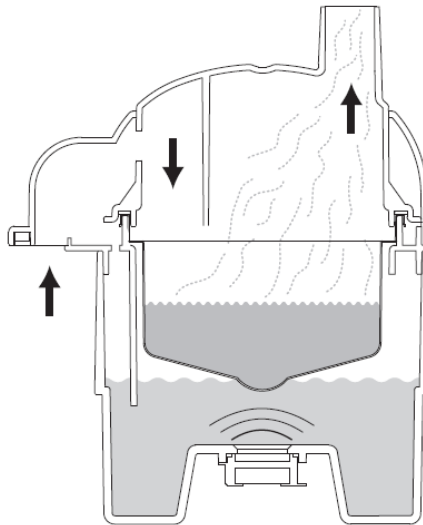
19



Principle of nebulization

Principle of nebulization

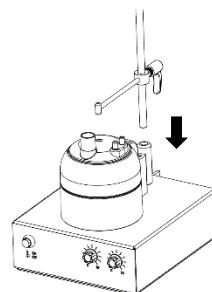
- 1) PROFi SONIC A transmits the energy of ultrasonic vibration from the vibrator located at the bottom of the water tank into water.
- 2) The ultrasonic vibrations are transmitted to the medication cup through the water in the water tank.
- 3) The ultrasonic vibration emits medication from the medication cup (like a fountain) and it is dispersed as aerosol.
- 4) Air from the fan carries this nebulized medication out of the medication cup.



How to prepare therapy

1. Assembling the device.

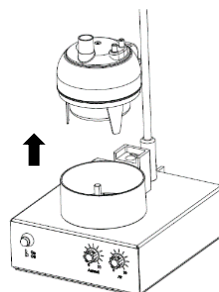
Insert the medication supply holder ⑦ in the pivot and screw it with the key provided with the device.



2. Disassembling the nebulisation unit

Take the medication cup holder ③ (plastic ring) located below the cup cover ⑤ and lift it up. In this way, the nebulisation section is removed.

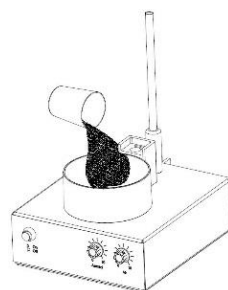
Note: Medication cup holder ③ is a three-legged part which keeps it steady on the table.



3. Filling the cooling water

Fill the cooling water into water tank ⑧. The proper amount is approximately 300 ml. Pour some water until the sensor level float in the water tank rises to its upper position. Recommended water temperature is approximately 25°C.

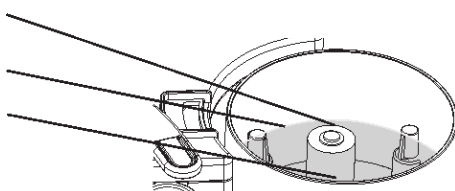
To prevent scale build-up in the water tank, use distilled or demineralised water instead of tap water.



Sensor level float in upper position

Water level

Vibrator



How to prepare therapy

4. Filling a inhalation solution

Two filling options can be selected.

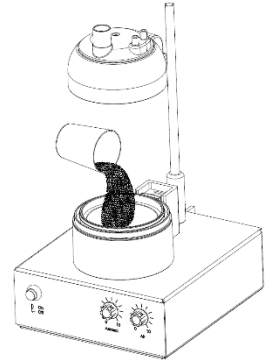
1. Filling the solution directly into the medication cup ④

Attach the nebulisation unit to the water tank ⑧.

Be sure that the air duct is adjusted properly.

Hold the medication cup holder ③ with one hand while the other is removing the medication cup cover ⑤.

Fill medication into the medication cup ④. Be sure the medication volume is between 5 ml and 150 ml.

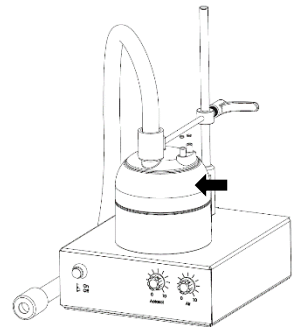


2. Filling the medicine into the medication supply bottle

Attach inhalation hose ②.

Remove two plastic caps located on the top of nebulisation chamber.

Note: Keep caps at your disposal. If you do not need continual liquid delivery, caps are necessary for closing plugs.



How to prepare therapy

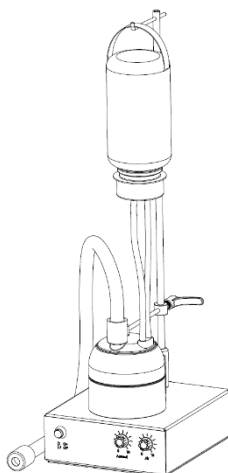
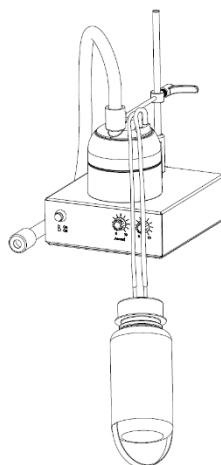
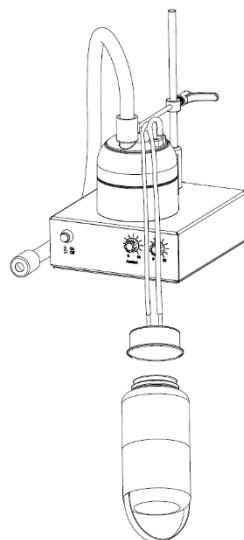
Connect tightly tubes to the nebulisation chamber. If tube connections are loose, air will enter into tubes, liquid will leak and medication cap ④ can be overflowed.

Fill medication bottle with liquid intended for inhalation and tightly close medication bottle cap. If medication bottle cap is loose, air will enter into tubes, liquid will leak and medication tank ④ can be overflowed.

Hang medication bottle set ⑥ on medication supply holder ⑦.

Warning: There must be no air bubbles inside tubes or delivery of liquid from bottle to nebuliser can be interrupted.

Periodically inspect presence of air bubbles inside tubes, and remove air bubbles if necessary.



How to prepare therapy

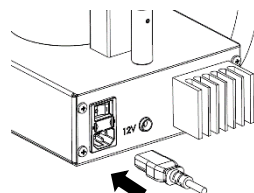
5. Plugging the nebulizer into the electrical power

Device can operate connected directly to mains electrical outlet (220V AC) or to a battery (12V DC).

Plugging into mains electrical outlet (220V AC)

Make sure that the power button **12** is in the OFF/0 position. If the power cord **16** is not attached, insert it fully in the socket of the nebulizer **14** and plug it into an electrical outlet.

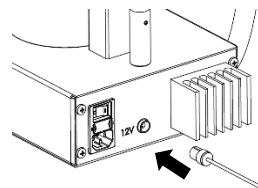
Note: Mains socket outlet used for connection of the control unit to the mains shall be easily reachable to the operator.



Plugging on battery (12V DC)

Connect DC power cable **17** running from battery to socket on the rear side of unit **15**.

Observe the keyhole at the top of the connector on DC power cable **17**. Keyhole prevents wrong assembly of the plug.



Warning: Pay attention to the polarity of the DC cable wires. Connect the blue wire to battery negative polarity (-) and brown to positive (+).



6. Turning the nebulizer on, pausing

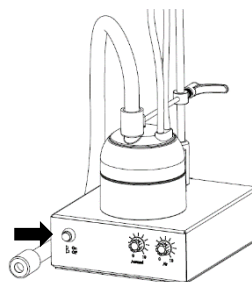
Turn on power button **12**, on a back side of device.

Press Start/Stop button **9** to start therapy.

It will start if the water tank is filled with cooling water.

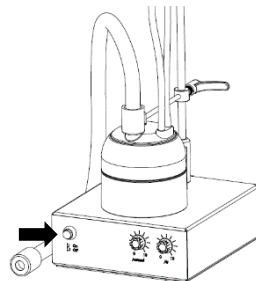
If the water level in the water tank is low, or if the medication cup cover has not been properly placed, the device will signalise error trough blinking of Start/Stop button **9** along with the beeping sound.

Fill water tank as described in section 3. Then press Start/Stop button **9** again to start inhalation.



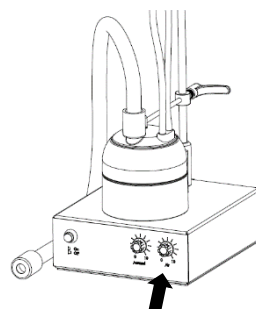
How to prepare therapy

You may temporarily pause the inhalation session by pressing the Start/Stop button ⑨. The inhalation session may be continued by pressing the same button again.



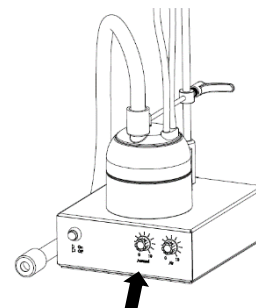
7. Setting the air-flow volume

Adjust the air-flow volume by turning the air-flow knob (Fan).



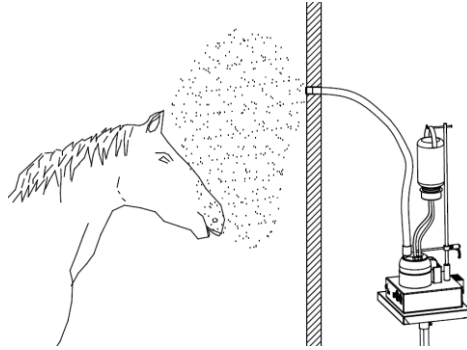
8. Setting the nebulisation rate

Adjust the nebulisation rate by turning the nebulisation rate knob (Aerosol).



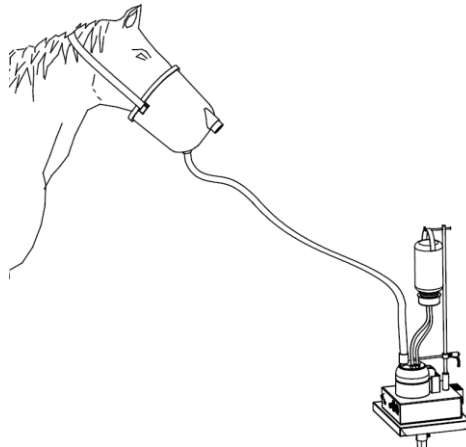
How to perform therapy

Nebulizing aerosol in cabin or horse trailer in front of equine



Nebulizing aerosol in atmosphere around equine can be performed if equine is in cabin made for that purpose or adjusted horse trailer. The volume of the trailer/cabin should be as small as possible to make the therapy more effective. To avoid damaging, the device should be physically separated from animal. End of inhalation hose should be placed in front of equine.

Inhalation using equine mask 18



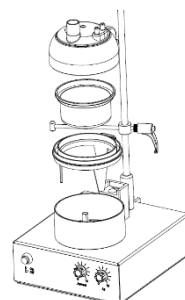
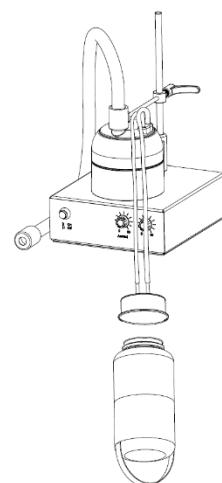
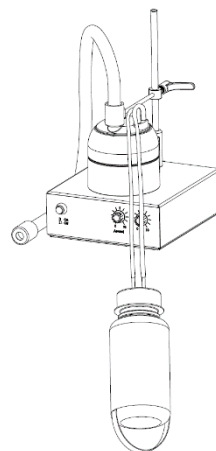
Place mask 18 to equine. Connect inhalation hose 2 directly to equine mask 18 and start therapy.

Caution: Be aware that therapy via equine mask can be unpleasant to animal. Device should be secured from direct hitting or falling to ground.

How to finish therapy

When the treatment is finished you should:

1. Turn off the power button **12** (position 0).
2. Remove inhalation hose **2**, medication supply set **6** from holder **7** and put bottle in position lower than level of water in medication cup **4**.
3. Wait until tubes are empty of liquid. Remove medication bottle cap and empty liquid from medication bottle.
4. Remove the medication cup cover **5**, medication cup **4** and medication cup holder **3**.
5. Discard the cooling water in the water tank.
The volume of a suitable container should be greater than 300 ml.
6. Clean and disinfect the nebulizer.



How to finish therapy

Warning

When assembling the cleaned, disinfected, and dried parts, do not touch the places where the medication and nebulized medication pass through directly with your hands to prevent possible infection.

Do not make any contact to the vibrator while the power plug is plugged into the electric outlet.

- You may suffer electric shock or injure yourself.



CLEANING AND DISINFECTION

Warning: Adhere to the following hygiene instructions at all times to prevent any health hazard through contaminated PROFI SONIC A.

Clean the dust from the main unit **①** and medication supply holder **⑦** by wiping it with a disposable cloth after being moistened with water or light-detergent solution.

General advice

- Do not wipe the main unit with volatile chemicals, such as benzene or thinners.
- Do not damage the surface of the vibrator.
- Please observe local disposal guidelines for used accessory parts such as disposable products.

Some parts of the unit may be damaged if you use disinfectants based on:

- phenols,
- alkyl amine compounds,
- halogen-releasing compounds,
- strong organic acids,
- oxygen-releasing compounds.

Cleaning and disinfection

Wipe disinfection

The surface of the unit and its parts are disinfected:

- By wiping the outer surface of the nebulizer unit and other parts with cotton wool slightly moistened with alcohol.
- **Do not allow contact between the disinfectant and the inside of the unit.**

Immersion disinfection

Note: Do not immerse the main unit ❶ in a disinfectant!

The medication cup ❷, inhalation hose ❸, medication cup holder ❹, medication cup cover ❺, and equine mask ❻ may be immersed in a disinfectant.

The time to immerse the parts in the disinfectant differs with the type of the disinfectant used. However, 30 to 60 minutes or even longer is common.




After immersing the parts, wash them sufficiently with water and dry promptly. Carefully store the parts so that they are not re-infected.

Boiling disinfection

Note: Do not boil the main unit ❶!

The medication cup holder ❹, inhalation hose ❸ and medication cup cover ❺ can be disinfected by boiling. Boiling disinfection is performed at 93°C for 10 minutes using detergent solution only.

Warning

<p>Besure to immediately dry the cleaned and disinfected parts, and then store them in order to prevent them from getting contaminated in the future.</p> <ul style="list-style-type: none"> • Miscellaneous types of bacteria may propagate and you may get infected. 	
<p>Do not wash the main unit ❶ with water, or splash water to the power source.</p> <ul style="list-style-type: none"> • Electric leakage may occur in the unit or you may suffer electric shock. 	
<p>Besure the power cord ❻ is disconnected before cleaning and disinfection.</p> <ul style="list-style-type: none"> • Electric leakage may occur in the unit or you may suffer electric shock. 	

Troubleshooting

<i>Trouble</i>	<i>Where to inspect</i>	<i>How to correct</i>
Insufficient amount of water	Is the water in the water tank up to the level float?	Fill the water up to the level float.
The unit does not nebulize.	Are the air vents at the bottom blocked?	Unblock the air vents at the bottom of the unit. Wait for the unit to cool down.
	Is the medication cup correctly set?	Set the medication cup correctly.
	Is the amount of medication in the medication cup too small?	Increase the amount of medication to more than 5 ml.
	Is the inhalation hose bent and the medication pooled in the hose?	Adjust the bent hose correctly and drain the pooled medication.
	Is the aeration hose placed correctly?	Place the aeration hose correctly.
The amount of aerosol has decreased.	Is the room temperature too low and/or water temperature too low?	Operate the unit without medication for about 4 minutes, then use the unit.
	Is the value of nebulisation rate set too low?	Adjust the value of nebulisation rate.
Nebulization is unstable.	Is the amount of medication exceeding 150 ml?	Reduce the amount of medication to less than 150 ml.

- If the unit does not operate normally after taking the above-mentioned measures, do not touch the internal mechanism and consult the store where you purchased the unit or PRIZMA service centre.



Manufacturer

PRIZMA Kragujevac Ltd.
Kumanovska 8
34000 Kragujevac,
SERBIA

PRIZMA GmbH
Graf-Adolf-Platz 15
40213 Dusseldorf,
GERMANY

Specifications

Product name	: PRIZMA Ultrasonic Nebulizer
Model	: PROFI SONIC A
Power source	: 100-240V AC, 50-60Hz; 12V DC, battery
Power consumption	: 55W
Fuse	: 2 x T2AH/250VAC
Ultrasonic frequency	: 1.7MHz
Nebulization rate	: 3 ml/min
Particle size	: 0.5 - 5 µm
Air volume	: 20 l/min
Noise level	: < 35 dB (A)
Amount of cooling water	: 300 ml
Capacity of medication cup	: max 150 ml (optimal 50 ml)
External dimensions	: 280 x 200 x 220 mm
Weight of the main unit	: 3.3 kg
Operating conditions	: 15 - 40°C (59 - 104°F), 30 - 85% RH, 700-1060 hPa
Transport/storage	: 0 - 45°C (32 - 113°F), 30 - 85% RH, 700-1060 hPa
Accessories included	: Inhalation hose (90 cm), 3 medication cups (one already installed), medication supply set, AC power cord, DC power cord, instruction manual.

Symbols



= Warning: read the instruction manual carefully



= Correct disposal of This Product



Important information regarding Electro Magnetic Compatibility (EMC)

With the increased number of electronic devices such as PC's and mobile (cellular) telephones, devices in use may be susceptible to electromagnetic interference from other devices. Electromagnetic interference may result in incorrect operation of the device and create a potentially unsafe situation. Device 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, relevant standard has been implemented. This standard defines the levels of immunity to electromagnetic interferences as well as maximum levels of electromagnetic emissions.

Special precautions need to be observed:

- Do not use mobile (cellular) telephones and other devices which generate strong electrical or electromagnetic fields near device. This may result in incorrect operation of the unit and create potentially unsafe situation. Recommendation is to keep a minimum distance of 7 m. Verify correct operation of device in case the distance is shorter.

Further documentation is available at PRIZMA at address mentioned in this instruction manual. Documentation is also available at www.prizma.rs







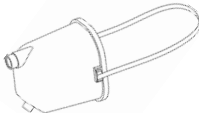
Correct disposal of this product (Waste electrical & electronic equipment)

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

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

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

Optional accessories

<p>Inhalation hose (90cm) Packaging unit: 1 pc</p> 	<p>Medication cup Packaging unit: 5 pcs</p> 	<p>Medication supply set Packaging unit: 1 pc</p> 	<p>Inhalation hose holder Packaging unit: 1 pc</p> 
<p>Equine mask Packaging unit: 1 pc</p> 	<p>Trolley stand Packaging unit: 1 pc</p> 