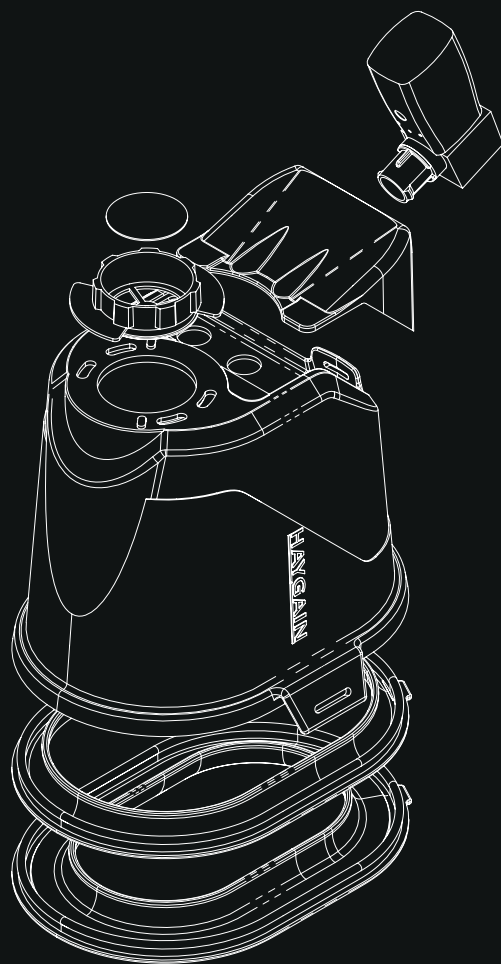


HAYGAIN®

Breather



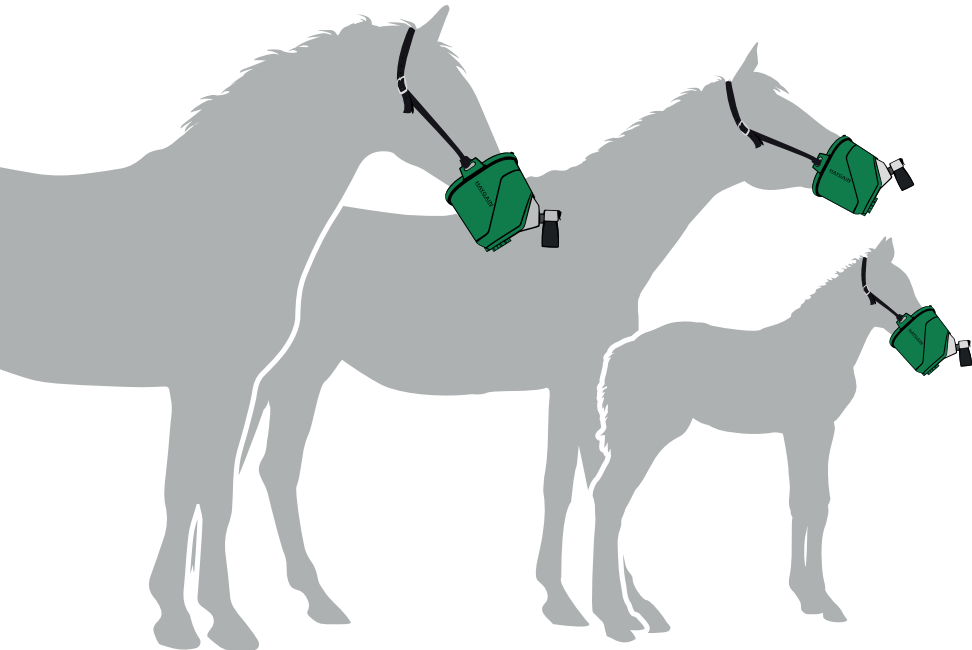
USER MANUAL

HAYGAIN[®]

Breather

User Manual

Portable Equine Nebulisation System



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Haygain Breather — User Manual

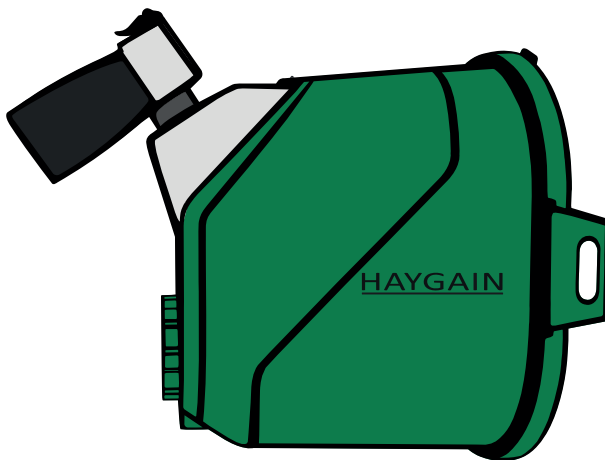
Portable Equine Nebulisation System

FOR VETERINARY USE IN HORSES ONLY.

NOT FOR HUMAN USE. THIS PRODUCT IS NOT A HUMAN MEDICAL DEVICE.

1. Purpose of the Device

The Haygain Breather is a portable equine nebulisation system intended for use by veterinary professionals and trained horse owners for the administration of nebulised, veterinarian-approved aqueous medications or isotonic saline solutions to horses (*Equus caballus*) by inhalation. The aerosol is delivered through a proprietary equine mask designed for equine nasal anatomy. This product is for veterinary use in horses only. It is not intended for human use and is not a human medical device. All medications must be authorised by a qualified veterinarian.



2. Important Safety Guidelines

READ BEFORE USE

- Not for human use. Designed exclusively for equine use.
- Do not use if the device, cable or charger shows signs of damage.
- Keep out of reach of children.
- Contains a lithium-polymer battery. Do not crush, puncture, disassemble or incinerate. Do not expose to extreme heat or direct sunlight.
- Charge using only the mains charger cable supplied.
- Do not operate in wet conditions. Do not immerse in water.
- Read all sections of these instructions before first use.

Introducing the Haygain Breather to a horse should be done with care, especially during the first use.

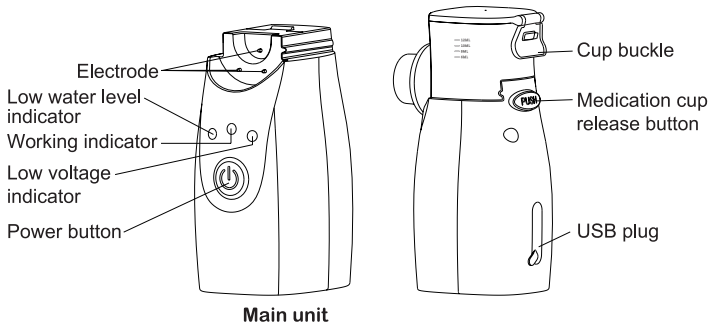
- Position the mask gently over the horse's muzzle with the lower vent initially open, allowing free breathing.
- Once the nostrils are enclosed and a comfortable seal is formed, allow the horse to settle and become accustomed to the device.
- When relaxed, close the lower vent and begin the nebulisation session.
- If the horse appears anxious or unsettled, reopen the vent slightly to increase airflow until the horse is comfortable again.
- In urgent situations, the lower vent can be detached completely to restore unobstructed airflow.

Although the mask is flexible, the nebuliser is rigid. Nebulisation should only be performed by competent individuals and handlers should remain aware of head movements during use.

3. System Components

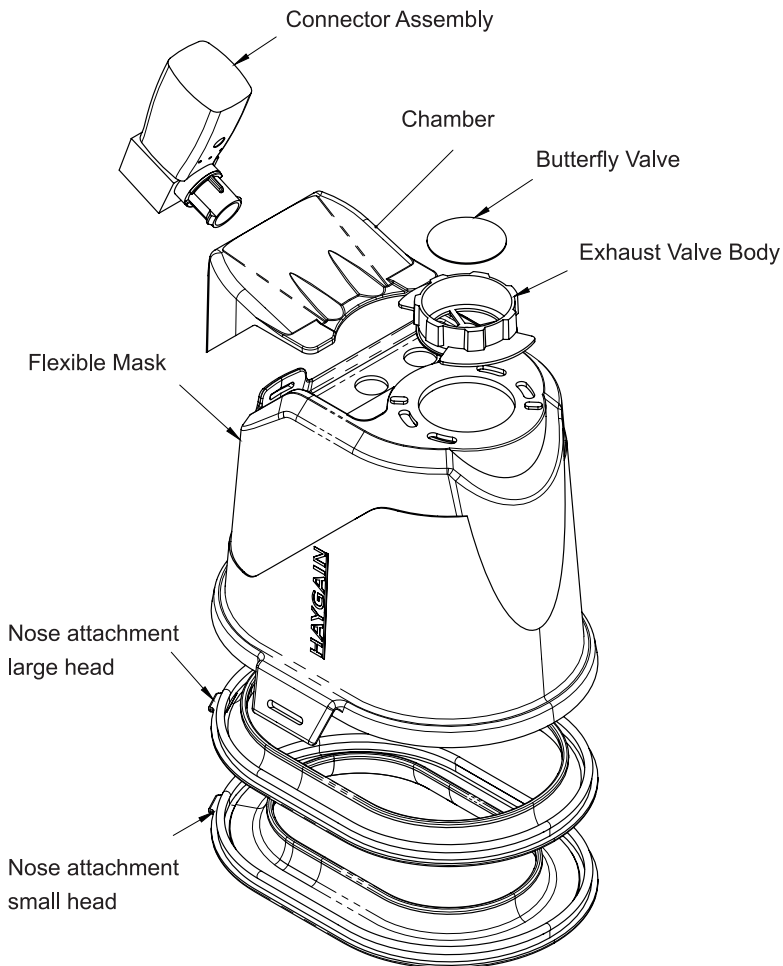
Nebuliser

- Nebuliser
- Medicine cup
- Charging lead



Mask

- Flexible Mask
- Exhaust Valve Body
- Nose attachment small head
- Nose attachment large head
- Chamber
- Butterfly Valve
- Connector Assembly
- Inhale Valve



4. Using the Haygain Breather (Nebuliser Mode)

Before starting a session:

- 1 Review the Purpose, Safety Guidelines and Maintenance sections.
- 2 Confirm that inlet and outlet valves move freely.
- 3 Open the lower vent to help the horse become familiar with the mask.
- 4 Fill the medication cup strictly according to veterinary instructions.
- 5 Once the horse is comfortable wearing the mask, close the lower vent.
- 6 Switch on the nebuliser; mist generation begins within a few seconds.
- 7 The aerosol chamber will visibly fill during exhalation and clear as the horse inhales.
- 8 The controller automatically stops after approximately 20 minutes but may be turned off manually at any time.
- 9 Recharge the unit using a USB-C charger.

5. Technical Overview

Nebulisation Performance

- Typical flow rate: ~0.6ml-0.8ml/min using 0.9% saline (actual rate depends on formulation).
- Includes sub-5 µm particles suitable for deep lower airway delivery.

Medication Cup Capacity

- 12 ml reservoir.

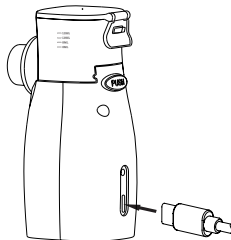
Power and Battery

For first-time use, or if the device has not been used for an extended period, we recommend connecting it to a power supply to activate and charge the battery.

Charging the Device

- 1 Open the USB socket protection cover on the back of the main unit.
- 2 Connect the Type-C cable to the main unit and to the power adapter as shown in Figure 2.
- 3 Plug the power adapter into a mains socket.
 - The green working indicator will flash to show that charging has started.
 - When the green light stops flashing and remains steady, charging is complete.

Figure 2:



After Charging

- Disconnect the power adapter and Type-C cable.
- Close the USB socket protection cover.
- After power is turned on there will be a short start up period of about 2 seconds before mist begins to emit normally.
- If a high frequency noise occurs during nebulisation, please shake the nebuliser gently.

Important Notes

- This product contains a lithium-polymer battery and is electrical and electronic equipment. Do not dispose of in general household waste. Return to a designated WEEE collection point in accordance with local regulations.
- Contact your local waste-disposal facility for information on proper disposal of used batteries.
- When the low-voltage warning light (orange) flashes, the battery is nearly depleted. Please recharge the nebuliser promptly.
- After charging, always unplug the power adapter. Do not leave the device connected to the power supply for extended periods.
- If the device has not been used for more than three months, it is recommended to recharge the lithium battery once before use.

Power Supply

- Device charging input: 5 V $\equiv$ via USB Type-C.
- The device is charged using the supplied AC mains adapter.
- Mains adapter input: 100–240 V AC, 50–60 Hz (auto-switching).
- Use only the adapter and cable supplied with the product.
- Battery: BERON LIP503048, 3.7 V, 750 mAh, 2.775 Wh (integral, non-user-replaceable).
- Do not attempt to remove or replace the battery.

Environmental Conditions

- Operating range: 10°C to 40°C, 10% to 95% RH.
- Storage range: –20°C – +60°C, 10–95% RH.
- IP22 — protected against dripping water at up to 15° tilt.
- Operate in dry environments only.
- Do not immerse the device or medicine cup.

6. Nebuliser Indicators

Battery Status LEDs

Green light is always on (at work)	Working in normal spray mode
Green light on and off slowly (at work)	Cleaning spray mode is working
Orange light flashes slowly	Low battery reminder
Orange light flashes quickly	Insufficient power, unable to work, shut down
Blue light flashing	No liquid medicine, shut down
Green light flashes (when charging)	Charging
Green light is always on (when charging)	Charging complete

7. Maintenance & Cleaning

Medication Cup

Cleaning mode

- When the device is switched off, add 3–6 ml of distilled water to the medication cup. Press and hold the power button for 3 seconds to activate the cleaning mode. The green indicator light will slowly fade on and off while the device runs for 3 minutes, after which it will shut down automatically.
- Clean immediately after every use to protect the vibrating mesh.

Deep cleaning

- If further cleaning is required, add 2–3 drops of mild washing liquid (not dishwasher detergent) and fill with distilled water.
- Seal, shake vigorously for ~15 seconds, then rinse. Do not turn the nebuliser on.
- Wipe the electrodes gently with a cotton bud.
- Rinse thoroughly with distilled water on both sides and air-dry.

Mask

- Wash in warm water with mild detergent; rinse and dry fully.
- For disinfection, disassemble, wash, allow to dry, then wipe with antibacterial wipes or an FS Animal Health approved disinfectant.

Nebuliser

- Store and operate only in dry environments.
- Charge when battery indicator turns orange.
- cleaning it thoroughly immediately after every use will result in mesh damage and result in a requirement to replace the medicine cup more often.

Do not:

- Do not immerse the nebuliser or medicine cup.
- Do not introduce chemical cleaning agents to the medicine cup.
- Do not make physical contact with the mesh.
- Do not clean any parts in a dishwasher.
- Do not use the microwave to dry parts.
- Do not sterilise.

8. Warranty

- Mask assembly (excluding valves), Nebuliser, Charger: 12 months
- Medication cup: consumable part '(lifespan will vary depending on usage time, the substance nebulised, the thoroughness of cleaning after every use and general care). If cared for, normal lifespan is up to 90 uses.
- Damage caused by misuse or improper handling is excluded from warranty.
- This commercial warranty is in addition to and does not affect your statutory rights. The warranty period runs from the date of purchase
- This warranty is non-transferable

9. Troubleshooting

TROUBLESHOOT QUESTION 1:

No Mist Output (Working indicator is on but the nebuliser does not operate, may turn off or require shaking).

Possible Cause 1:

The main unit or the electrodes on the medication cup are dirty, causing poor electrical contact.

Solution:

Clean the electrodes thoroughly and restart the device.

Possible Cause 2:

There is dirt, a serious blockage, or damage to the mesh inside the medication cup.

Solution:

Clean the medication cup following the instructions in the manual.

If the issue persists after cleaning, replace the medication cup.

Possible Cause 3:

The medicine cup mesh has worn out (a consumable part) through number of uses, type of solutions nebulised or lack of cleaning thoroughly after each use.

Solution:

Replace the medicine cup.

TROUBLESHOOT QUESTION 2:

Nebuliser turns on for a short period then off again

Possible Cause 1:

The machine is in cleaning mode, not on, identified by the green light slowly blinking.

Solution:

Press the 'on' button quickly, don't press and hold.

Possible Cause 2:

The machine is out of water or the mesh is blocked. Identified by the blue light flashing.

Solution:

First check the machine has liquid in the medicine cup. If it does, then clean the medication cup following the instructions in the manual.

If the issue persists after cleaning, replace the medication cup.

TROUBLESHOOT QUESTION 3:

Not able to get the last bit of liquid out of the device

Possible Cause 1:

The machine is tipped back too far. Identified by the blue light flashing.

Solution:

Hold the horse's head up a little to tip the liquid in the medicine cup towards the horse.

TROUBLESHOOT QUESTION 4:

Excessive water droplets forming in the tubing or mask during or after use

Possible cause 1:

Condensation occurs when warm aerosol comes into contact with cooler surfaces causing moisture to collect as droplets. This is more likely if the device is cold or used in a cool environment. Some condensation is normal and does not affect performance unless excessive.

Solution:

Ensure the nebuliser and accessories are stored at room (ambient) temperature before use.

10. Compliance

The Haygain Breather meets the essential requirements under applicable European directives and harmonised standards.

This product has been assessed for conformity with the following:

- Directive 2014/30/EU (EMC Directive)
- Directive 2011/65/EU as amended by (EU) 2015/863 (RoHS Directive)

UK Market

- The Electromagnetic Compatibility Regulations 2016 (SI 2016/1091)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012/3032)

A Declaration of Conformity is available on request from the manufacturer at the address below.

11. Symbols Glossary:

Symbol	Definition
	Manufacturer information
	Batch code
IP22	IP code of the device: this device's grade of against ingress of solid foreign objects – $\geq 12.5\text{mm}$ diameter (and the against access to hazardous parts with finger); the grade of waterproof is dripping (15° tilted).
	Authorized representative in the European Community
	Conforms with applicable EU legislation and CE marking requirements.
	Serial number
	Follow the operating instructions. Attention: The safety colour of this safety sign is blue, and the graphical symbol colour is white.
	Disposal in accordance with Directive 2012/19/EU (WEEE).
	Fragile: handle with care
	Keep dry
	This way up
	Stacking layer limit

12. Contact & Support

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Customer Service & Technical Support

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HAYGAIN[®]
BREATHER

