

PRODUCT FACT SHEET

WHAT IS MPTS?

The Multi-Purpose Training System (MPTS360) is the world's first Ultimate Training and Medical Delivery System for horses in all disciplines. The MPTS360 is a complete state-of-the-art Training System that features breakthrough Dual-Nebulisation Technology through Jet Nebulisation technologies. The MPTS360 is also capable of providing Oxygen Therapy as well as High-Altitude Training Simulation through use of supplemental gasses, Oxygen and Nitrogen respectively. Medivet's MPTS360 is patented technology and 100% Australian owned.

HOW DOES IT WORK?

The MPTS360 features the most advanced dual-nebulisation technology available in the world today. A study with Australia's leading University confirmed that Medivet's MPTS360 Nebulisers are 500% more effective than any other equine nebuliser available today in the breaking down of particles into the ideal particle distribution range of 1 to 5 microns. When the Jet Nebuliser Technologies is selected for use, rest assured you are using the world's most advanced medical delivery technology for your horse(s).

WHY USE?

Horses in all disciplines can benefit from using the MPTS360. Whether the intended use is for expedited recovery from injuries or racing, improved performance, regeneration of the lungs and respiratory system or for the most advanced delivery of drugs, the MPTS360's features provide the most advanced Technology available for benefit of all horses.

WHAT CAN BE NEBULISED THROUGH THE MPTS360?

All liquid products that can be administered through a Nebuliser can be used in the MPTS360. These include, but are not limited to:

- Bronchodilators such as Atrovent, Ventolin and Clenbuterol
- Corticosteroids such as Pulmocort, Dexamethasone and Flixotide
- Antibiotics such as Cobactan, Excenel and Gentamicin
- Mucolytics such as Parvolex and Ambroxol
- Homeopathic Products such as Arnica Montana (Leopard's Bane), Arsenicum Album (White Arsenic) and Rhus Toxicodendron (Poison Ivy)
- Regenerative Products such as Autologous Cond

FEATURES OF THE MPTS360

- Jet Nebuliser Delivery
- Metered Dose Inhaler Delivery
- Oxygen Therapy
- Altitude Training Simulation
- Integrated Mixing Plenum – to prevent waste of nebulised solution during the exhalation.
- One Way Inlet Vents - on Integrated Mixing Plenum ensure all nebulised solution is contained within the plenum until inhaled by the animal.
- One Way Exhaust Vents - on Main Mask Chamber, directly over the nostrils ensure all inhaled air passes through the Integrated Mixing Plenum for maximum nebuliser efficiency.
- One Way Dividing Vents – separate Integrated Mixing Plenum from Main Mask Chamber to prevent mixing of exhaled air with nebulised solution.
- Multi-Fit Seal – ensures effective operation of nebuliser and training features over a range of horse and camel facial profiles.

MPTS360

The world's most advanced nebuliser technology

Medivet's MPTS360 is patented technology and 100% Australian owned which provides a complete state-of-the-art Training System that features breakthrough Dual-Nebulisation Technology through Jet Nebulisation technologies to ensure your horse or camel receives the most effective delivery of any medication and treatment.

What are the Benefits of Oxygen Therapy (Hyperoxic Training)?

- Minimise the release of hydrocortisone (stress hormone) which can inhibit positive immune responses.
- Increase the oxygen processing capacity of cell mitochondria, prolonging aerobic metabolism by the cell for longer, more intense training sessions at lower risk of tissue damage.
- Preventing the decrease in arterial oxygen concentration during high intensity exercise which causes fatigue and the formation of lactic acid.
- Increase the rate of replenishment for arterial oxygen concentration during recovery for faster dissipation of lactic acid.
- Enhanced post-race recover time.

What are the Benefits of Altitude Training (Hypoxic Training)?

- Respiratory system adaptation resulting in: improved lung tissue where damaged increased Hypoxic Ventilatory Response increased minute ventilation, total and vital lung capacity
- Deeper Breathing – Engages greater lung volume for oxygen transfer
- Release of Bicarbonate into blood stream – Prevents Hyperventilation
- Cardiovascular system adaptation resulting in: vasodilation, increased micro-vessel density and reduced peripheral resistance decreased mean arterial blood pressure and heart rate
- Improves Right Ventricle Hypertrophy – Improved blood transport between heart and lungs.
- Increase Haemoglobin – Required for blood transport
- Increase 2-3 BPG – Aids in oxygen release to tissues
- Production of Citrate Synthase - Aids in oxygen release to tissues
- Increases Myoglobin – Increased oxygen storage in tissues
- Promotes the release of Vascular Endothelial Growth Factor (VEGF) that plays a significant therapeutic role in the treatment and management of lung damage associated with Exercise Induced Pulmonary Haemorrhage (EIPH)
- Improved blood biochemical indices
- Improved immunological status
- Increased VO2 max
- Reduced muscle damage following exercise (lower muscle enzymes)
- Smooth muscle stimulation
- Enhanced sympatho-adrenal system

