



## Penlon MRI Product Range

ANAESTHESIA SOLUTIONS

Penlon 

The Penlon Prima 451 MRI Anaesthesia System has been independently tested for use in a 3.0 and 1.5 tesla MRI environment.

Our MRI product range brings the advanced anaesthesia functionality of the operating room to your MRI suite in a single, integrated package.

#### Contents

- 3 Anaesthesia system, absorber and electronic ventilator
- 4 Pneumatic ventilator, Newton Valve and vaporizer
- 5 AGSS kit, suction kit and laryngoscopes
- 6 Gaussmeter, oxygen flowmeter and breathing circuits
- 7 World class service support



# Penlon Prima 451 MRI Anaesthesia System

The Penlon Prima 451 is a compact MRI anaesthesia system tested for performance stability and effect on image, and is built for the special requirements of the anaesthetist working in the MRI suite

- ◆ Designed specifically for use in an MRI environment
- ◆ Approved for use with a 3.0 and 1.5 tesla scanners
- ◆ Electronic touch screen ventilator option
- ◆ Compact footprint, optimum manoeuvrability
- ◆ Total system compatibility
- ◆ Designed and manufactured in the UK
- ◆ Independently tested



# Penlon A200SP Absorber

A high performance absorber with a ventilator interface as standard that provides ventilator mode switching, triggered by the bag/ventilator control

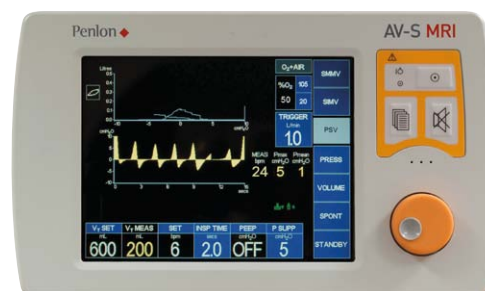
- ◆ Excellent ergonomics with multi-position mounting and adjustable breathing bag arm
- ◆ Protected, integrated spirometry sensors
- ◆ Quick release canister for loose or pre-packed absorbent
- ◆ Independently tested



# Penlon AV-S MRI Electronic Ventilator

The Penlon AV-S Ventilator's intuitive user interface and comprehensive support modes provide the optimum therapy for adult, paediatric and neonatal patient profiles

- ◆ Volume and Pressure ventilation, plus SMMV, SIMV, PSV, and PEEP
- ◆ Integrated oxygen monitor and spirometry
- ◆ Absorber/Ventilator interface provides seamless ventilation mode switching
- ◆ 60 minutes battery backup
- ◆ Adult, paediatric, and site default settings
- ◆ Paediatric bellows kit available



## Penlon Nuffield 200 MRI Ventilator

The Nuffield 200 is a pneumatically driven time-cycled ventilator with preset volume and flow rate for adult or paediatric patients

- ◆ Compact, easy to use
- ◆ Use with the optional Newton Valve to deliver ultra low tidal volumes for neonates and premature babies
- ◆ Multi-use capabilities
  - ◆ Co-Axial Circuit
  - ◆ Ayre's Tee Circuit
  - ◆ Circle System (with A200SP absorber)
  - ◆ Resuscitation
- ◆ Paediatric bellows kit available
- ◆ Independently tested
- ◆ Optional gaussmeter with mounting bracket



## Penlon Newton Valve

The Penlon Newton Valve has been designed to replace the standard patient valve on the Nuffield 200 ventilator to deliver the smaller tidal volumes and lower inspiratory flow rates that are required to ventilate small infants, neonates and premature babies

- ◆ Tidal volumes between 10 and 300 ml
- ◆ Flow rates between approximately 0.5 and 18 L/min
- ◆ Use with a Mapleson F, Jackson Rees modification, T-Piece breathing system



## Penlon Sigma Delta MRI Vaporizer

The Penlon Sigma Delta MRI vaporizer delivers accurate concentrations under varying conditions of flow rate and temperature, particularly at low flow

- ◆ Multiple agent and filler block options
- ◆ Superb performance, particularly at low flow
- ◆ Service Free\*
- ◆ Low body weight
- ◆ Sevoflurane, Isoflurane, Halothane and Enflurane
- ◆ Internationally recognised, award-winning design
- ◆ Independently tested

\*Presumes ten year product life requiring no preventive maintenance service. It is recommended that a service is carried out at ten years. Halothane vaporizers require a five year service.



## Penlon MRI AGSS Kit

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The Penlon AGSS Receiver is the practical solution for waste anaesthetic gas discharges and is designed as an integral part of a waste anaesthetic gas system

- ◆ 3.6 m reinforced outlet hose assembly
- ◆ Top mounted outlet hose connection
- ◆ Air break prevents suction from the disposal system being transferred to the patient
- ◆ Flow indicator provides visual indication of normal operating conditions
- ◆ Gauze filter built into the top of the vessel prevents gown fluff and other solid material from reaching and blocking the fixed extraction system
- ◆ Quiet performance



## Penlon MRI Suction Kit

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The lightweight plastic design and colour coded body of the SC760 Suction Controller provides excellent performance with uncompromising safety

- ◆ 0 – 86 kPa high suction range
- ◆ Lightweight construction
- ◆ Includes forward facing mounting kit
- ◆ Supplied with BactiTrap® anti-bacterial filter
- ◆ 2 and 4 metre hose lengths available
- ◆ Vacuum adjustment and separate on/off switch
- ◆ Independently tested



## Penlon Diamond MRI Laryngoscopes

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Use your Penlon Diamond MRI laryngoscope safely in MR conditions with a static magnetic field of 3.0 tesla or less

- ◆ Designed specifically for use in the MR environment and independently tested
- ◆ Safe to use in a static magnetic field of 3.0 tesla or less
- ◆ Macintosh (American and English), Miller, and Wisconsin blade styles
- ◆ Standard and short handles available
- ◆ 3.9 volt xenon lamp delivers a high intensity, cool, light beam
- ◆ Patented low-magnetic signature lithium battery delivers up to 4 times the useful life of a standard battery



# Vector/Magnitude Gaussmeter

The Vector Gaussmeter displays the true magnitude of the field at any location as well as the X, Y, Z components of up to 1000 gauss

- ◆ Integrated probe holder and mounting kit
- ◆ Displays the magnetic field strength regardless of probe orientation
- ◆ Continuous sampling and field strength calculation every 5 milliseconds
- ◆ Audio / visual alarm if the set magnetic field is exceeded

## NOTE

Gaussmeter is supplied as standard with the AV-S MRI ventilator. Order separately if required with a Nuffield 200 ventilator.



# Penlon Flowmeter – Oxygen

The Penlon oxygen flowmeter can be used safely in the MRI environment with an appropriate pipeline outlet

- ◆ 0 – 15 L/min standard flow rate
- ◆ Pressure compensation prevents back pressure build up on flow indicator
- ◆ Incorporates static charge dissipation device to ensure accurate readings
- ◆ BS EN 737 probe connector
- ◆ Durable polycarbonate flow tube and cover
- ◆ Anodised aluminium body and control
- ◆ Twin graduated scale provides precision low flow control
- ◆ Replacement plastic nipples available
- ◆ Independently tested



# Breathing Circuits

A range of breathing circuits and components, for adult and paediatric patients, suitable for use in the MR facility

- ◆ Adult breathing circuits – single use and reusable system options
- ◆ Paediatric breathing circuit – single use
- ◆ Mapleson F, Jackson Rees modification, T-piece breathing system – single use. Includes 0.5 L open tail bag



# Penlon World Class Service Support

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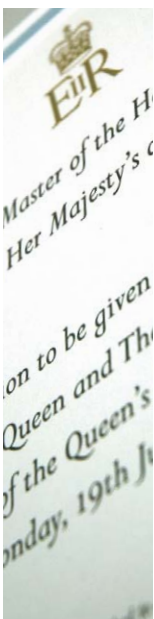


## All Penlon products are covered by a comprehensive warranty and our distributors are fully supported with a global service and technical support package.

Penlon leads the field with bespoke technical training packages that truly empower and enable distributors to maintain equipment to the required standard and provide excellent customer service at a local level.

Feedback from our experienced team of UK service engineers and worldwide partners ensures that our training courses are up-to-date and relevant. Choose either a course at Penlon headquarters designed specifically for your personnel, or a regional scheduled course where you will attend with other distributors. All courses are challenging and stimulating, and on completion, attendees receive an industry accepted course certificate.

Penlon prides itself on an outstanding technical support service by phone or email, providing instant personal contact for guidance and resolution of queries. Service options offer excellent value for money and can include bespoke care packages. Where required we can also offer a complete return-to-base (UK Headquarters) service.



## Awards

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Penlon has always worked tirelessly to ensure customers have high quality, British-made products that are reliable, innovative and fit for purpose.

This goal-driven approach has yielded many awards and accolades of which the company is very proud.

Most notable are the four separate Queen's Awards, spanning over four decades from 1968 to 2010, including a prestigious Award for Innovation given for the design of the Sigma Delta Vaporizer.



## About Penlon ♦

Penlon was founded in 1943 by personnel from the Department of Anaesthesia at Oxford University. One of the first products was the Macintosh Laryngoscope, then a revolutionary design, and still the most widely used today, invented by the late Sir Robert Macintosh, Professor of Anaesthetics at Oxford University.

Today Penlon continues to design, engineer and build high quality anaesthesia products at its UK headquarters. The company is proud to have over 70 years' dedicated experience, many awards for product design, and an impressive four Queen's Awards for Enterprise, one for 'Innovation' and three for 'International Trade'.

Penlon devices feature intuitive user interfaces that require minimal operator training, putting clinicians in control, enabling them to focus on what is most important – patient safety and wellbeing.



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