

# Penlon Prima 451 MRI Anaesthetic Machine

ANAESTHESIA SOLUTIONS

MADE IN UK 

- ◆ Approved for use with 0.55, 1.5, 3.0 and 7.0 Tesla scanners, up to 1000 gauss<sup>1</sup>
- ◆ Electronic 8.4" touch screen ventilator
- ◆ Pipeline and cylinder pressure gauges
- ◆ Inspired and expired flow sensors
- ◆ Dual waveform and loop display
- ◆ Seven breathing modes, including PRVC
- ◆ Designed and manufactured in the UK



TESTED AND APPROVED FOR USE WITH  
**GE Healthcare, Philips and  
Siemens MRI Scanners<sup>2</sup>**

# Penlon Prima 451 MRI Anaesthetic Machine



## Feature-rich specification for your complete solution for safe, advanced anaesthesia in the MRI suite

- 1 Seven ventilation modes, and patient support for spontaneous breathing, including PRVC
- 2 Auxiliary oxygen flowmeter (option)
- 3 Sigma Delta vaporizer with interlock, three agent and three filler block options
- 4 Cylinder and pipeline contents gauges
- 5 Large workspace
- 6 Enclosed body construction or new optional drawer unit<sup>2</sup>
- 7 Lockable castors - assists stability
- 8 GCX™ compatible aluminium uprights for secure accessory mounting
- 9 Integrated CO<sub>2</sub> absorber with ventilator interface

# The Penlon Prima 451 is a compact MRI anaesthetic machine, with advanced patient support modes, and has been designed for use with 0.55, 1.5, 3.0 and 7.0 Tesla scanners<sup>1</sup>

Prima 451 is a sophisticated design, tested for performance stability and effect on image, and built for the special requirements of the anaesthetist working in the MRI suite.

## MRI compatibility

The Prima 451 is an MR-conditional anaesthetic machine, approved for use with 0.55, 1.5, 3.0 and 7.0 Tesla MRI scanners, up to 1000 gauss<sup>1</sup>.

- Tested as a complete system<sup>3</sup>, as illustrated
- Approved for use with GE Healthcare, Philips and Siemens MRI scanners<sup>3</sup>
- Distinctive colour scheme and labelling

## Platform

The Prima 451 Anaesthetic Machine has a strong core specification including integrated AV-S Ventilator and A200SP Absorber.

- Two station Selectatec compatible backbar<sup>3</sup>
- Fully compliant to ISO 80601-2-13 standard, and to the Restrictions of Hazardous Substances (RoHS) Directive.
- GCX™ compatible, secure top mounting system for patient monitor<sup>2</sup>
- Enclosed body construction, now available with an optional drawer unit<sup>3</sup>
- Cylinder<sup>3</sup> and pipeline gas supply inlets

## Options

- Front or rear-mounted common gas outlet
- Wide choice of territory-specific electrical power outlets

## Accessories

Penlon supplies side-mounted accessories suitable for use in the MRI suite, with provision for secure mounting on the side of the machine.

- AGSS (anaesthetic gas scavenging system) receiver
- Suction controller kit
- Therapy flowmeter
- Sigma Delta
- Diamond MRI Fibrelight Laryngoscope

## System components

Ultra low-flow anaesthesia, from a reliable platform, combining advanced features and value for money. The Prima 451 is easy to use and maintain, with proven performance and low life costs.

### 1 AV-S MRI Ventilator

An easy to use, multifunction anaesthesia ventilator, designed for adult, paediatric and neonatal patient profiles. Standard specification includes three advanced spontaneous support modes and electronic PEEP. The AV-S has integrated oxygen monitoring and spirometry, plus seamless integration with both the absorber and anaesthetic machine.

### 2 A200SP Absorber

A high performance absorber with a ventilator interface as standard that provides ventilator mode switching, triggered by the bag/ventilator control. The unit has a quick-release canister, and the main components are autoclavable.

### 3 Sigma Delta MRI Vaporizer with interlock

Award winning, high performance market leader, offering multi-choice agent and fill system options.

### 4 Flowmeter bank

Anti-hypoxic system giving enhanced patient safety. Cascade flow tubes as standard.

## Maintenance and after-sales support

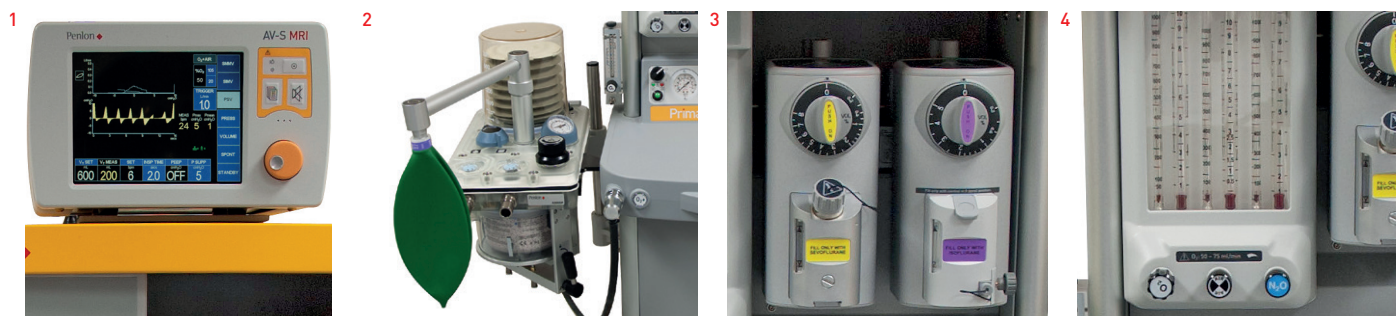
Penlon is committed to a successful, long term relationship with all our customers. Comprehensive warranty provides user peace of mind and after-sales support.

Additional services and warranties can be purchased to meet your particular needs.

<sup>1</sup> Conditions apply. 1.5T and 3.0T tested with GE, Philips and Siemens MRI scanners. 0.55T and 7.0T tested with Siemens MRI scanners.

<sup>2</sup> Visit [www.penlon.com](http://www.penlon.com) for further information and to download compatibility statements.

<sup>3</sup> Do not place any object on or in this machine unless it is specifically labelled to be used in an MRI scanning room and on the Prima 451 MRI Anaesthetic Machine.

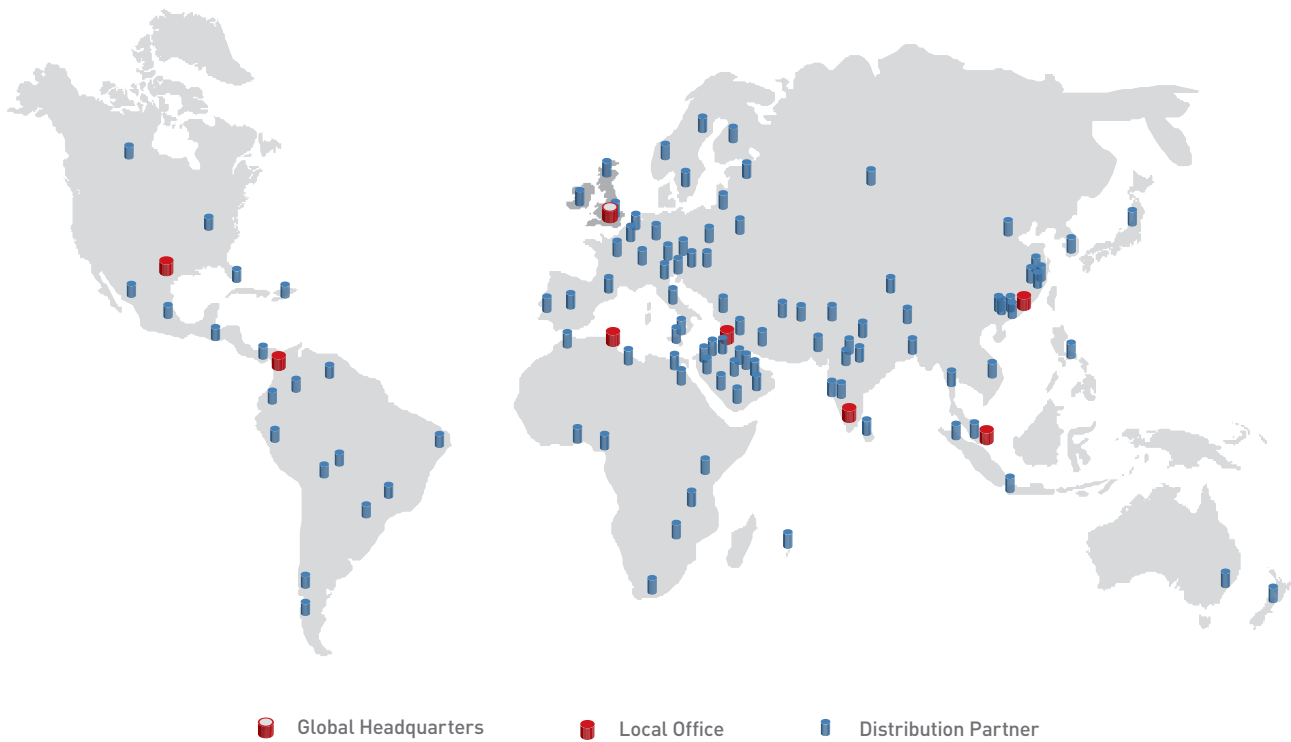


## About Penlon ♦

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 80 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.



Rx only



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