Penlon Prima 320 Advance Anaesthetic Machine

ANAESTHESIA SOLUTIONS

A UK COMPANY

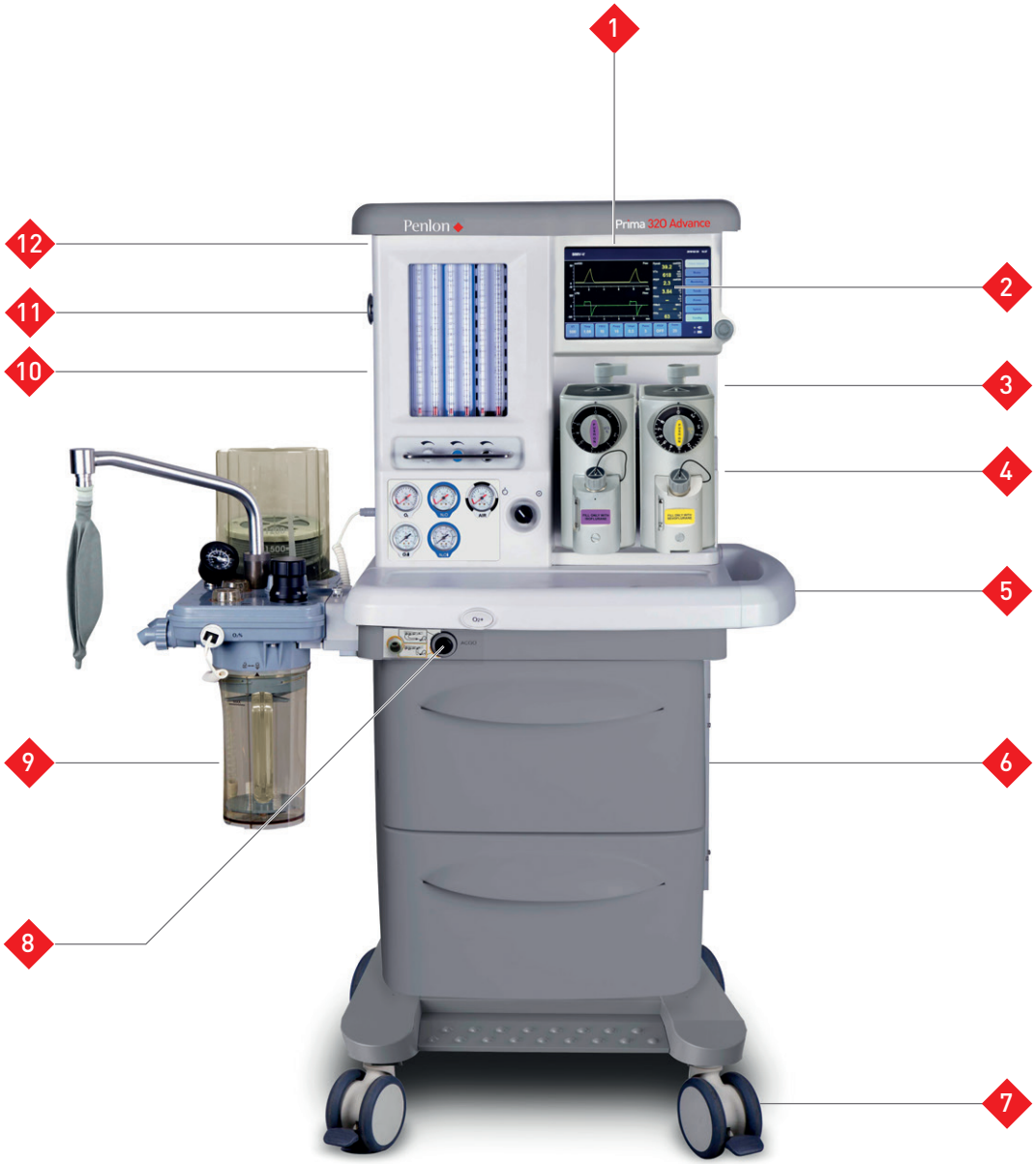
- 10.4" TFT colour touchscreen
- Eight ventilation modes
- Optional Anaesthetic Gas, CO_2 and SpO_2 monitoring
- Integrated CO_2 absorber and bellows unit with ventilator interface
- Selectatec compatible back bar
- Switchable front facing common gas outlet

OPTIONAL SIDESTREAM OR MAINSTREAM

Anaesthetic Gas Monitoring

Penlon

Penlon Prima 320 Advance Anaesthetic Machine



All the features and options you need to configure a system to your exact requirements

1. 10.4" TFT colour touchscreen
2. Eight ventilation modes
3. Optional Anaesthetic Gas, N_2O, CO_2 and SpO_2 monitoring
4. Selectatec® compatible backbar (two stations)
5. LED illuminated work spaces
6. Large capacity drawer units
7. Optional central brake
8. Switchable front facing common gas outlet for open and closed circuit operation
9. Integrated CO_2 absorber and bellows unit with ventilator interface
10. GCX™ compatible aluminium uprights for additional accessory mounting
11. Optional auxiliary O_2 outlet
12. Three electrical outlets

The Penlon Prima 320 Advance is a high specification anaesthetic machine providing the ideal solution for today's busy operating room

Clinician-focused choices and benefits, including intuitive 10.4" TFT touchscreen with eight ventilation modes and optional Anaesthetic Gas, CO_2 and SpO_2 monitoring

Ventilator Control and Visualisation
10.4" TFT colour touchscreen ventilator display with navigator wheel and audio/visual indicators.

Enhanced Patient Safety
Accurate mechanical anti-hypoxic device and automatic drive gas switching function.

Waveforms and Respiratory Loops
Choice of up to 10 waveform and respiratory loop displays.

Dual Flow Sensors
Inspiratory and expiratory volume measured and displayed on the screen.

Patient Profiles
Suitable for adult, paediatric and neonatal patient profiles.

Additional Monitoring
Optional Sidestream or Mainstream Anaesthetic Gas, and Sidestream CO_2 and SpO_2 monitoring.

Alarms
Audible and visual alarms with colour coding to highlight importance.

Electrical Power
Three electrical power outlets to meet your requirements.

Battery BackUp
Provides power to the machine for up to 2 hours, in the event of an AC mains power failure.

Gas Supply Options
Two cylinder yokes (O_2 and N_2O) and three central pipeline connections (O_2, N_2O and Air). O_2/Air ventilator drive gas options.

Auxiliary Common Gas Outlet (ACGO)
Control switch and front outlet for connecting an open breathing circuit.

Active AGSS
Disposes of waste gas and prevents possible health hazards to operating room staff.

Maintenance and After-Sales Support
Comprehensive warranty provides peace of mind and after-sales support. Additional services and warranties can be purchased to meet your particular needs.

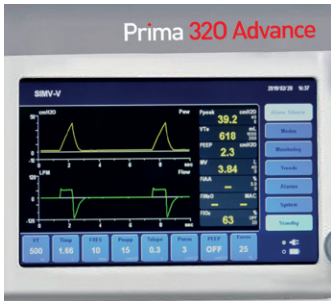
Standards Compliant
Fully compliant to ISO 80601-2-13, ISO 80601-2-55 and IEC 60601-1.

1 Ventilation Modes
Eight ventilation modes are available (VCV, PCV, PRVC, SPONT/PSV, SIMV-V, SIMV-P, SIMV-PRVC, and Manual) with PEEP available in all modes except Manual.

2 CO_2 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 built-in heating system and the main components are autoclavable.

3 Anaesthesia Vaporizers
The award winning Sigma Delta and the new Sigma EVA desflurane vaporizers offer multiple agent and filler system options to suit all clinical requirements.

4 Penlon Patient Monitors
Simple intuitive user interface enables clinical staff to concentrate on improved patient outcomes with accurate physiological data, and to respond immediately to any change in condition.

1


2

3

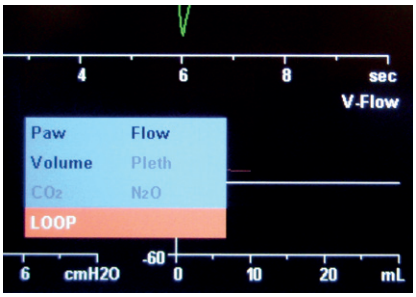
4

Ventilation Modes

Eight ventilation modes are available as standard (VCV, PCV, PRVC, SPONT/PSV, SIMV-V, SIMV-P, SIMV-PRVC, and Manual) with PEEP available in all ventilation modes except Manual.

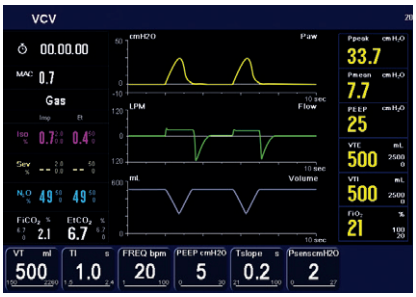
Waveform Display

Two user-selectable waveform displays with a choice of Airway Pressure, Flow Rate, Tidal Volume, P–V Loop, V–F Loop, CO_2 or Pleth.



Monitoring

All measured parameters are grouped on-screen in an easily accessible display window, including Anaesthetic Gas, N_2O, CO_2, SpO_2 and age-related MAC.



Trends Data

Trend review of parameter values within a specific time period up to 24 hours. User selectable parameter and time scale options.

The Penlon Prima 320 Advance anaesthetic machine provides advanced ventilation modes, accurate control and monitoring capabilities in a cost-effective workstation.

Alarms

User adjustable high and low alarm limits for all measured parameters and 100 event alarm log.

Features and Benefits

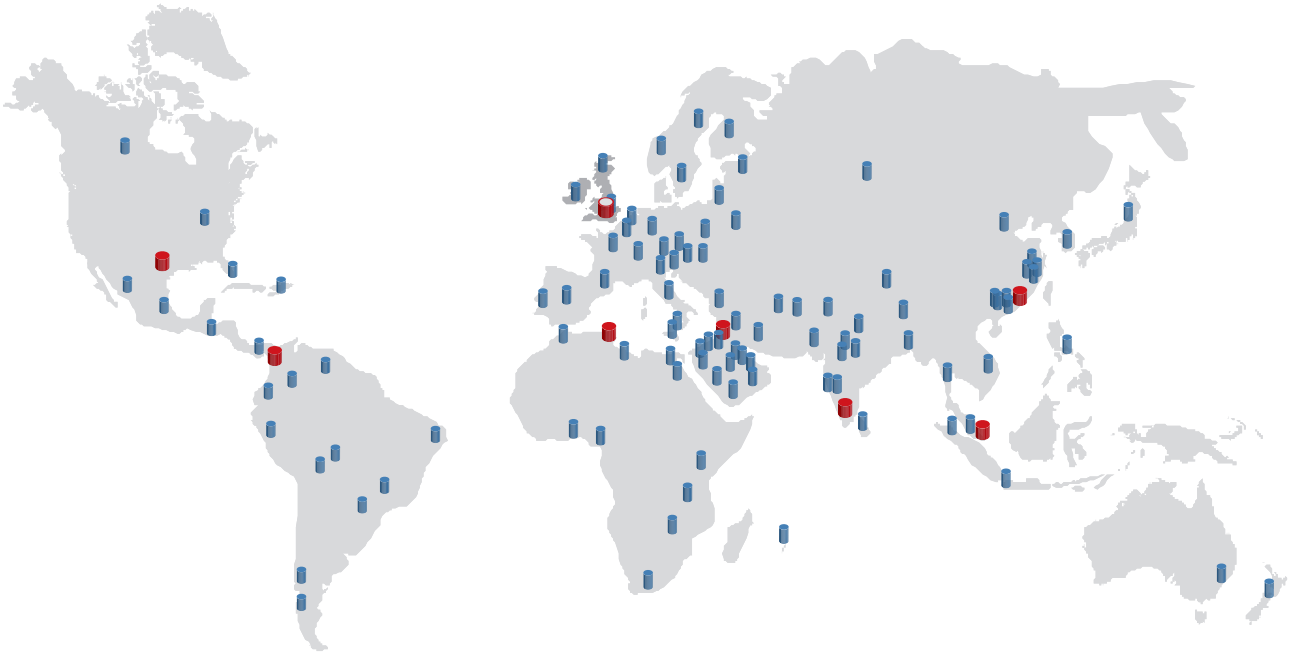
Features	Benefits
Cascade flow tubes	Accurate gas delivery, particularly at low flow rates
Multi-mode ventilator	Suitable for multiple patient types and clinical cases
Optional Anaesthetic Gas, N_2O, CO_2 and SpO_2 monitoring	Comprehensive gas monitoring for enhanced economy and patient safety
Integrated heater and water trap on the CO_2 absorber	Reduces the risk of condensation
Absorber CO_2 bypass	Can change absorbent while ventilating a patient
Eight ventilation modes	Comprehensive choice provides optimum patient care
Selectatec back bar	Can be used with any compatible vaporizer
Mechanical anti-hypoxic device and automatic drive gas switching	Enhanced patient safety
Maintenance and after-sales support	Customer peace of mind
Air or O_2 drive gas	Ensures continuous use of ventilator
Territory-specific power outlets	Power external devices
AGS (anaesthetic gas scavenging) system	Alleviates contamination in theatre
Patient cable management arm	Reduces cable clutter
Oxygen therapy outlet	For recovery and added safety
Optional side mounted suction controller kit	Keeps airways clear

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.

Today Penlon continues to design, engineer and build high quality anaesthesia products at its UK operations 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.



CE 1639 UKCA 0120

PenlonGlobal company/penlon-ltd PenlonGlobal PenlonGlobal

Doc. No. TA0625SL Rev. F / 21 January 2025. Penlon and Prima are trademarks of Penlon Limited. All other trademarks are the property of their respective owners.

A Medcaptain Company

© Penlon Ltd. 2025 All rights reserved

Penlon Limited
Abingdon Science Park
Barton Lane, Abingdon
OX14 3NB, UK

General
t +44 (0) 1235 547000
w www.penlon.com

International Sales
t +44 (0) 1235 547001
e international.sales@penlon.com

UK Sales
t +44 (0) 1235 547036
e uk.sales@penlon.com

Technical Support
t +44 (0) 1235 547060
e tech.support@penlon.com

EC REP
OBELIS S.A.
Bd Général Wahis, 53
B-1030 Brussels
Belgium