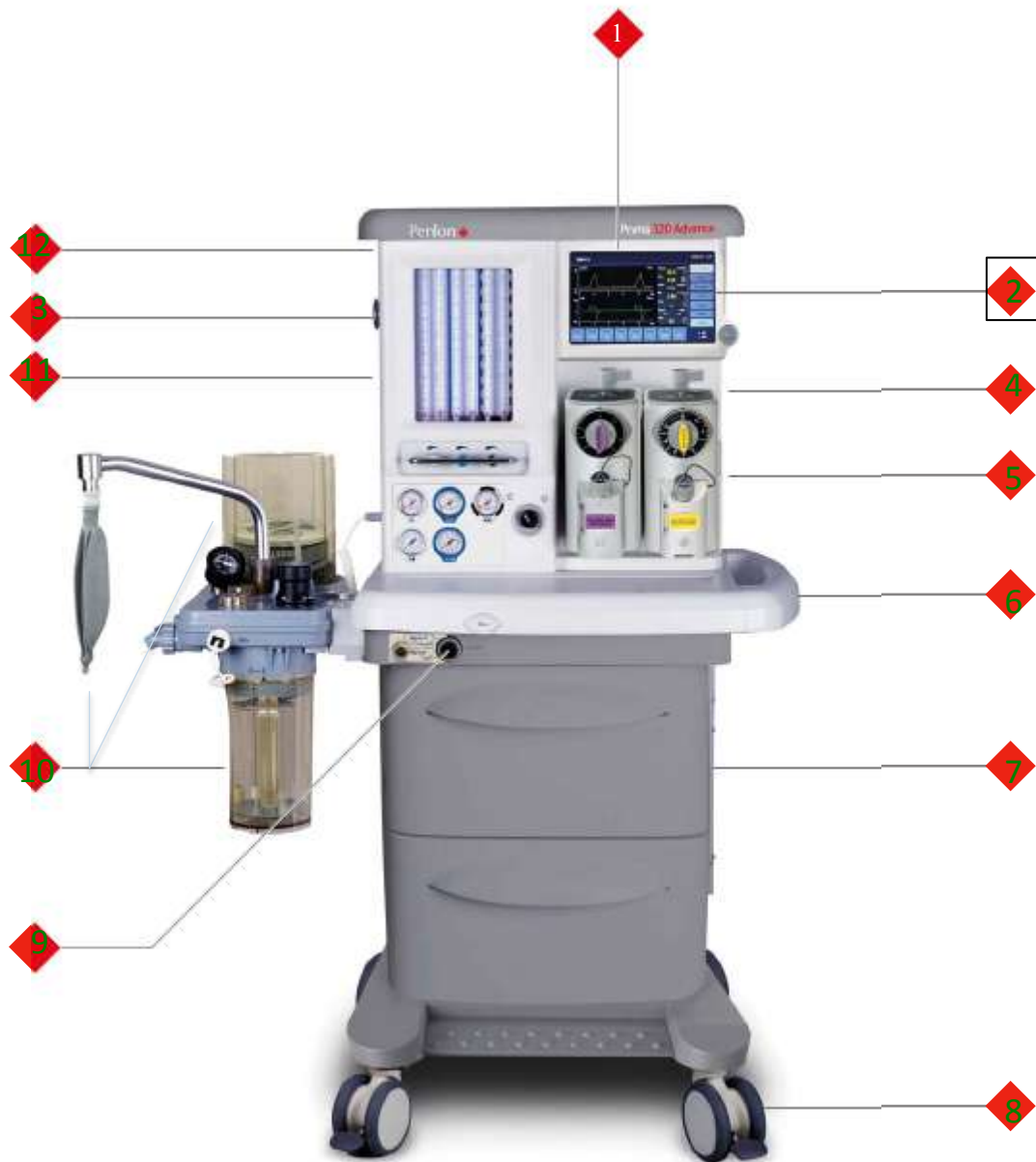


Penlon Prima 320 Advance Anaesthetic Machine

Technical Specification

ANAESTHESIA SOLUTIONS





Todas las necesidades cubiertas por un fabricante europeo que tiene mas de 50 años de experiencia en la fabricacion de mesas de anestesia , sensor de flujo inspiratorio y espiratorio reutilizable ,ventilador con 8 distintos modos de ventilacion permite ventilar todo tipo de animales cubriendo cualquier necesidad .

- | | |
|--|---|
| 1..10.4" TFT Pantalla color tactil | 9..Salida de gases frontal para conexion de sistema maphelson |
| 2..8 modos de ventilacion | 10..Absorvedor de co2 y sistema de concertina ascendente que advierte de fugas en el circuito |
| 3..Opcional co2 y spo2 | Sistema Manual orientable , valvula APL de facil acceso |
| 4..Selectatec® compatible soporte para dos vaporizadores | 11..Rotametros dobles de o2/n2o y Aire para facil ajuste |
| 5..Un Vaporizador Incluido en la oferta a elegir sevofl/ Isofl | 12..onexiones de gases a red y a botella y conexiones electricas |
| 16..Amplia superficie de trabajo con iluminacion led | |
| 7..Dos cajones de gran capacidad | |
| 8..Ruedas antiestaticas con freno | |

Physical Specifications

Dimensiones	
Dimensiones	1410 × 950 × 650 mm
Peso	110 kg
Area de trabajo	
Cap Soporta peso	30 kg –
Iluminacion	
Riel	LED
Rail Lateral	GCX™ para colocar accesorios
Cajones	
Tamaño (H × W × D)	200 × 392 × 398 mm
Numero de cajones	2
Cap soporte de peso	20 kg - evenly distributed
Ruedas	
Diametro	125 mm
Freno	Individual freno
Pantalla	
Tipo	ColorTFT Tactil
Tamaño	10.4" / 264 mm
Resolucion	800 × 480 pixels
Construction	
Material	Frame: Aluminium and plastic Base: Aluminium

Ventilator Specifications

Especificaciones del Ventilador	
Tipo	Totalmente integrado , controlado electronicamente y funcionamiento neumatico
Modos	<ul style="list-style-type: none"> • Ventilacion Volumen Control (VCV) • Ventilacion presion control Control (PCV) • Presion regulada con volumenn target (PRVC (PCV-VG)) • VentilacionMandatoria sincronizada Intermitente- Volumen (SIMV-V) • Ventilacion mandatoria sincronizada intermitente Pressure (SIMV-P) • Ventilacion mandatoria intermitente sincronizada con volumen garantizado (SIMV-PRVC) • ESPONT/Presion soporte Ventilacion (PSV) con apnea buck up (VCV or PCV) • Manual • PEEP posible en todos los modos , excepto Manual
Concertina	Universal (adult and paediatric) bellows
Gas de impulsión	O2/Air – Con cambio automatico
	Presion: 280 to 600 kPa
	Max flow: ≤ 120 L/min
Compensacion	Barometrica
Sensores de flujo	Inspiratorio y expiratorio (reusable)
Data Interface	1 × USB, 1 × Serial port (for service only), 1 × RS232, 1 × VGA
Parametros	
Volumen tidal	Range: 10 to 1500 mL Incrementos: 10 a 100 mL (5 mL); 100 a 1500 mL (10 mL)
Frecuencia respiratoria	Rango: 1 a 100 bpm Incrementos 1 bpm
Tiempo inspiratorio	Rango: 0.1 a 10.0 segundos Incrementos: 0.1 segundos
Respiratory Ratio (I:E)	Rango: 4:1 a 1:10 Incrementos 0.5
Porcentaje de pausa inspiratoria	Rango: 0 a 60% Increments: 5%
PEEP	Rango: OFF, 3 a 30 cmH2O Incrementos: 1 cmH2O
Presion soporte	Rango: 0 a 70 cmH2O Incrementos: 1 cmH2O

Soluciones de anestesia

Presion control	Rango: 5 t a 70 cmH2O Incrementos: 1 cmH2O
Flow Trigger	Rango : 0.5 a 20 L/min Incrementos: 0.1 L/min
Pressure Trigger	Rango: 0 a 20 L/min Incrementos: 0.1 L/min
SIMV-P Inspiracion Termination Level	Rango: 5 a 80% Incrementos: 5%
Parametros monitorizados	
Parametros Standard P	PEEP, Pmedia, Pplat, Ppeak, VTi, VTe, Ftotal, Fspn, MV, MVspn, Rst, Cdyn, I:E, FiO2
Opcional	EtCO2, SpO2, Pulso frecuencia
Curvas standard	Flow, Volume, PAW, P-V Loop, V-F Loop
Curvas opcionales	Co2, Saturacion
Volumen tidal inspiratorio Volume (VTI)	Rango: 0 to 2500 mL Resolucion: 1 mL. Error of ±20 mL
Volumen tidal expiratorio Volume (VTE)	Rango: 0 a 2500 mL Resolucion: 1 mL.
Volumen minuto (MV)	Rango: 0 a 60 L / min Resolucion: 0.1 L / min.
Volumen minuto espontaneo (MVspn)	Rango: 0 a 60 L / min
Frecuencia respiratoria (ftotal)	Rango: 0 a 100 bpm Resolucion: 1 bpm.
Frecuencia de respiracion espontanea	Rango: 0 a 100 bpm Resolucion: 1 bpm.
I:E	30:1 a 1:150
Presion pico (Ppeak)	Rango 0 a 100 cmH2O Resolucion: 1 cmH2O.
Presion media (Pmean)	Rango 0 a 100 cmH2O Resolucion: 1 cmH2O.

PEEP	Rango: 0 a 100 cmH2O Resolucion: 1 cmH2O.
Inspiratory Plateau Pressure (Pplat)	Rango: 0 a 100 cmH2O Resolucion: 1 cmH2O.
Compliance (Cdyn)	Rango: 0 a 300 mL/cmH2O
Airway Resistance (Rst)	Rango: 0 a 600 cmH2O / (L / S) Resolucion: 1 cmH2O / (L / S). Error
FiO2	Rango: 15 a 100% Resolucion: 1%.
EtCO2 (Optional)	Rango: 0 a 20% (0 to 150 mmHg) Resolucion: 1 mmHg
FiCO2 (Optional)	Rango: 0 a 13.3% Resolucion: 0.1%
Pulse (Optional)	Rango: 20 a 150 bpm
SpO2 (Optional)	Rango 0 a 100%

Alarmas

Tidal Volume	Max : 30 a 2000 ml, OFF Min : 20 a 1500 ml
Volumen minuto	Max: 1 a 99 l Min: 0 a 98 l
Frecuencia respirat	Max: 1 a 100 bpm Min 0 a 99 bpm
Presion vias aereas	Max: 10 a 99 cmH2O Min: 1 a 98 cmH2O
Apnea alarma	Frec: 10 a 60 seconds Incrementos: 1 second
FiO2	Max: 19 a 100%, OFF Min: 18 a 99%
EtCO2 (Opcional)	0 a 13.3%
FiCO2 (Optional)	High: 0.1 a 13.3%
Pulse (Optconal)	limit Superior: 31 a 250 bpm limit inferior : 30 a 249 bpm
SpO2 (Opcional)	49 a 99%

Penlon Prima 320 Advance Anaesthetic Machine

Technical Specifications

ANAESTHESIA SOLUTIONS

Agentes Anaestésicos

Vaporizadores	
Vaporizadores	Sigma Delta and Sigma EVA (Sev, Iso, Hal, and Des)
Numero de posiciones	Dos
Tipo	Selectatec® compatible backbar

SigmaDelta Vaporizer

Dimensiones	
Selectatec compatible	242 × 120 × 190 mm (H x W X D)
Especificaciones físicas	
	4.8 kg
Volumen	Min: 35 ml Max: 250 ml
Opciones de gases	Sevoflurane, Isoflurane, Halothane
Sistema de llenado	Key fill, Quik-Fil or Pour fill
Concentración Control Dial Scale	0 to 2% vol, increments of 0.2% ≥2%+, increments of 0.5%
Condiciones ambientales	
Temperatura	Sev: 15 to 40°C (58 to 104°F) Iso: 15 to 35°C (58 to 95°F) Hal: 15 to 35°C (58 to 95°F)
Funcionamiento	-5 to 40°C (23 to 104°F)
Temperatura transporte	-5 to 40°C (23 to 104°F)
Presión atmosférica	11.5 to 110 kPa
Rangos de flujo	
Flujo operativo	0.2 to 15 L/min
Rangos de presión	
Rangos de presión de trabajo	0 to 5 kPa (0 to 0.7 psi)
Maxima Manifold Presión	38 kPa (5.5 psi)
Maxima Test Presión	38 kPa (5.5 psi)

Especificaciones eléctricas

Fuerza	
Input Voltage	100 to 240 V
Input Frequency	50/60 Hz
Longitud cable	3 m
Salidas eléctricas para conectar equipos aux	Three outlets: 2 A (200-240 VAC) or 1 A (100-120 VAC) per outlet, maximum
Fusibles	T215ALH 250 V (on live and neutral on each outlet)
Batería	
Tipo	NiMH, 12 V, 4.28.4 Ah.
Duración	90 minutes, aproximadamente
Tiempo de carga	4 horas

Especificaciones neumáticas

Auxiliary Common Gas Outlet (ACGO)	
Conector	22 mm male conical connector incorporating a coaxial female 15 mm conical connector.
Gas Supply	
Presión de suministro	280 to 600 kPa (40.6 to 87.0 psig)
Territory	UK/Europe: NIST
Connections	3 × Pipeline, with inlet filter 2 × Pin-indexed cylinder, with inlet filter
O2 Control	
O2 ducha	25 to 75 l/min
Gas Mixer	
Tipo	Mecánico
Sistema Anti-Hipoxico en caso de fallo de O2	
Tipo	Mechanical
Minima O2 Concentración	25% +5%/-4% (of total O2 and N2O flow) minimum 21% O2

Penlon Prima 320 Advance Anaesthetic Machine

Technical Specifications

ANAESTHESIA SOLUTIONS

Environmental

Operating Conditions	
Temperature	+10 to 40°C (50 to 104°F)
Atmospheric Pressure	70 to 106 kPa
Humidity	10 to 95% R.H. non-condensing
Transport and Storage Conditions	
Temperature	-20 to 55°C (-4 to 131°F)
Atmospheric Pressure	50 to 106 kPa
Humidity	10 to 95% R.H. non-condensing
Electromagnetic Compatibility	
Immunity	Meets the requirements of EN 60601-1-2
Emissions	CISPR 11 group 1 class A
Approvals	EN 60601-1-2, 80601-2-13
European Notified Body	CE 0088

Breathing System/Absorber

CO2 Absorber	
Absorbent Volume	1500 mL
Absorbent Type	Loose fill
Heater	Yes, integrated
APL Valve	
Range	0 to 70 cmH2O (approximately)
Bag/Vent Switch	
Type	Toggled bi-stable switch
Breathing System	
Valves	Visible inspiratory and expiratory check valves
Pressure Gauge	
Range	-2 to 10 kPa (-20 to 100 cmH2O)
Cleaning and Disinfection	
O2 Sensor (Cleaning)	Wipe with a damp cloth soaked in a soft detergent solution
All parts of the breathing circuit except the O2 sensor (Disinfecting)	Use a mild detergent with a pH of less than 10

All parts of the breathing circuit except the O2 sensor, airway pressure gauge and relief valve assembly (Sterilisation)

Autoclave at a maximum temperature of 121°C for a minimum of 15 minutes.

Anaesthetic Gas Scavenging System (AGSS)

Physical	
Type	Active
Type of Disposal System	For use with a high flow rate disposal system
Dimensions	420 × 77 × 99 mm (H × W × D)
Mounting	Side of the system
Safety Indicator	If the flow rate falls below 60 L/min, the float will fall below the bottom of the window

YourNotes:

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 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.



Global Headquarters



Local Office



Distribution Partner



facebook.com/PenlonGlobal



linkedin.com/company/penlon-ltd



twitter.com/PenlonGlobal

Doc. No. TA0119TS / May 2019. Penlon, InterMed and Prima are trademarks of Penlon Limited. All other trademarks are the property of their respective owners.

Part of the InterMed Group © Penlon Ltd. 2019 All rights reserved

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

General
t +44 (0) 1235 547000
f +44 (0) 1235 547041
w www.penlon.com

International Sales
t +44 (0) 1235 547001
f +44 (0) 1235 547021
e international.sales@penlon.com

UK Sales
t +44 (0) 1235 547036
f +44 (0) 1235 547023
e uk.sales@penlon.com

Technical Support
t +44 (0) 1235 547060
f +44 (0) 1235 547061
e tech.support@penlon.com

