

Dräger Perseus® A500

The Perseus A500 was designed around you with ideas from people just like you. It's a highly integrated, state-of-the-art anesthesia platform that emphasizes ergonomics, ease-of-use, and functionality.



TECHNICAL DATA

Operational characteristics

Weight	150 kg (335 lbs), basic equipment
Dimensions (H x W x D)	148 cm x 115 cm x 79 cm (58.3 in x 45.2 in x 31.1 in)
Power consumption	70 W, typical; max. 2.2 kW with aux power sockets in use
Electrical mains connection (w/o isolation transformer)	100–240 V~ 50/60 Hz,
Electrical mains connection (w isolation transformer)	100–127 V~ 50/60 Hz or 200–240 V~ 50/60 Hz
Maximum power consumption	12 A
Integrated battery backup time	30 minutes minimum, 150 minutes typical (new and fully charged battery)
Data interfaces	2 x RS 232 (MEDIBUS protocol), 1x USB, 1x LAN
Integrated power sockets	4 x country specific (w isolation transformer) or 4 x IEC
Latex	Contains no latex-containing components
Storage surfaces and drawers	3 drawers: 1 standard (lockable) 2 optional (1 lockable)

Ambient conditions

Temperature	10 to 40 °C (50 to 104 °F)
Air pressure	620 to 1060 hPa (9.0 to 15.3 psi) Equivalent to 4.000 meter height

Fresh-gas delivery – electronic mixer

Fresh-gas flow	Off; 0.2 to 15 l/min
O ₂ -concentration	21 to 100 % in Air, 25 to 100 % (in N ₂ O)
O ₂ -flush	25 to 75 l/min at 2.7 to 6.9 bar gas supply pressure
O ₂ -flow for auxiliary and additional oxygen	Off; 2 to 10 l/min



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The combination with Infinity Acute Care System patient monitoring offers additional clinical advantages e.g. during patient transport or documentation.

TECHNICAL DATA

Ventilator TurboVent2 (electrically driven and electronically controlled turbo ventilator)

Standard modes of ventilation	<ul style="list-style-type: none"> – Manual / Spontaneous (MAN / SPON) – Pressure controlled: time-cycled (PC-CMV), synchronized (PC-BIPAP), – Volume controlled: time-cycled (VC-CMV), time-cycled AutoFlow (VC-CMV/AF), synchronized AutoFlow (VC-SIMV/AF)
Optional modes of ventilation	<ul style="list-style-type: none"> – Pressure Support (CPAP / Pressure Support), selectable (PC-BIPAP/PS) and Autoflow Pressure support for pressure controlled ventilation (VC-SIMV/AF/PS), selectable CPAP for Man/Spont – Airway Pressure Release Ventilation (PC-APRV) – External fresh gas outlet (optional)
Patient demographics	Neonates, pediatric patients, adults
Tidal volume	20 to 2,000 ml
Inspiratory pressure PINSPI	3 to 80 hPa / mbar / cmH ₂ O
Pressure limitation P _{MAX}	7 to 80 hPa / mbar / cmH ₂ O
Pressure support over PEEP	0 to 78 hPa / mbar / cmH ₂ O
Respiratory rate	3 to 100/min
Inspiratory time	0.2 to 10 s
Inspiratory flow	0 to 180 l/min
PEEP/CPAP	Off, 2 to 35 hPa / mbar / cmH ₂ O

Measurement systems, displays and further functionality

- 15.3" (38.9 cm) touch screen, configurable user interface, intelligent alarm management incl. comprehensive help database
- Minute volume (MV) and tidal volume (VT); respiratory rate (RR); peak inspiratory pressure (PIP), plateau pressure (P_{plat}), mean airway pressure (P_{mean}), PEEP; compliance (C), resistance (R)
- Integrated gas bench for measuring inspiratory and expiratory gas concentrations of O₂, N₂O, CO₂ and anesthetic agents (automatic detection of Halothane, Enflurane, Isoflurane, Sevoflurane and Desflurane); age corrected display of xMAC values; optional prediction of anesthetic agent concentrations, optional prediction of inspiratory O₂ concentrations
- Simultaneous display of 3 real-time curves for CO₂, O₂ and anesthetic agent concentrations, airway pressure, inspiratory and expiratory flow
- Bar graph display of volume and tidal volume; virtual flow tubes for O₂, AIR, N₂O
- Simultaneous display of 2 loops: Volume-Pressure and Flow-Volume, reference loop
- Graphical or tabular display of trends and mini-trends simultaneous with real time curves
- Econometer to display fresh gas efficiency (econometer trend display optional)
- Fresh gas and anesthetic agent consumption measurement per case and per last zeroing
- AutoSet for alarm limits
- Device Status Panel with LC Display for display of airway pressure, supply status of battery and gases (CGS + cylinders)
- Dosing of O₂ and anesthetic agents during Man/Spont ventilation possible, even when device is switched off
- Programmable, time-based fully automatic start-up and self test of device and software
- Integrated, dimmable illumination of working and documentation surfaces, illuminated vaporizers (optional)
- Heated breathing system, tool-free exchangeability
- Central brake, smooth running castors with cable deflectors
- Autoclaveable ventilator

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

Manufacturer:

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

REGION EUROPE CENTRAL AND EUROPE NORTH

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
Tel +49 451 882 0
Fax +49 451 882 2080
info@draeger.com

REGION EUROPE SOUTH

Dräger Médical S.A.S.
Parc de Haute Technologie
d'Antony 2
25, rue Georges Besse
92182 Antony Cedex, France
Tel +33 1 46 11 56 00
Fax +33 1 40 96 97 20
d1mfr-contact@draeger.com

REGION MIDDLE EAST, AFRICA

Drägerwerk AG & Co. KGaA
Branch Office
P.O. Box 505108
Dubai, United Arab Emirates
Tel +971 4 4294 600
Fax +971 4 4294 699
contactuae@draeger.com

REGION ASIA / PACIFIC

Draeger Medical
South East Asia Pte Ltd.
25 International Business Park
#04-27/29 German Centre
Singapore 609916, Singapore
Tel +65 6572 4388
Fax +65 6572 4399
asia.pacific@draeger.com

REGION CENTRAL AND SOUTH AMERICA

Dräger Panama Comercial
S. de R.L.
Complejo Business Park,
V tower, 10th floor
Panama City
Tel +507 377 9100
Fax +507 377 9130
contactcsa@draeger.com

CANADA

Draeger Medical Canada Inc.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 866 343 2273
Fax +1 905 212 6601
Canada.support@draeger.com

Locate your Regional Sales
Representative at:
www.draeger.com/contact

