

# Dräger Perseus® A500

Dräger's highly configurable anesthesia workstation.  
Perseus® A500.



## TECHNICAL DATA

### Operational characteristics

Weight	163 kg (360 lbs), nominal configuration
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 220 – 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), 1 x USB, 1 x LAN
Integrated power sockets	4 x country specific (w isolation transformer) or 4 x IEC
Latex	Not made with natural rubber latex
Drawer module(s)	(optional) 3 drawers incl. 2 lockable drawers and a writing surface

### Ambient conditions

Temperature	10 to 40 °C (50 to 104 °F)
Air pressure	9.0 to 15.3 psi Equivalent to 4,000 meter altitude

### Fresh-gas delivery – mechanically controlled gas mixer

Fresh-gas flow	0 to 15 l/min per gas (O <sub>2</sub> , Air, N <sub>2</sub> O)
O <sub>2</sub> -concentration	Sensitive Oxygen Ratio Controller (S-ORC) provides a minimum O <sub>2</sub> concentration of 21 % in an O <sub>2</sub> /N <sub>2</sub> O mixture
O <sub>2</sub> -flush	25 to 75 l/min at 39 to 100 psi supply pressure
O <sub>2</sub> -flow for auxiliary oxygen	Off; 2 to at least 10 l/min



**Dräger Perseus® A500**  
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"> <li>– Manual / Spontaneous</li> <li>– Pressure Control – CMV, Pressure Control – SIMV+</li> <li>– Volume Control – CMV, Volume Control – CMV / AF, Volume Control – SIMV / AF</li> </ul>
Optional modes of ventilation	<ul style="list-style-type: none"> <li>– Pressure Support, consisting of: CPAP / Pressure Support, Pressure Control – SIMV+ / PS and Volume Control – SIMV / AF / PS</li> <li>– Pressure Control – APRV</li> </ul>
Patient demographics	Neonates, pediatrics, adults
Tidal volume	20 to 2,000 ml
Inspiratory pressure PINSP	3 to 80 cmH <sub>2</sub> O
Pressure limitation PMAX	7 to 80 cmH <sub>2</sub> O
Pressure support over PEEP	0 to 78 cmH <sub>2</sub> 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 cmH <sub>2</sub> O

### Measurement systems, displays and further functionality

- 15.3" touch screen, configurable user interface, intelligent alarm management incl. remedy assistance
- Minute volume (MV) and tidal volume (VT); respiratory rate (RR); peak inspiratory pressure (PIP), plateau pressure (Pplat), mean airway pressure (Pmean), PEEP; compliance (C), resistance (R)
- Integrated gas bench for measuring inspiratory and expiratory gas concentrations of O<sub>2</sub>, N<sub>2</sub>O, CO<sub>2</sub> and anesthetic agents (automatic detection of Halothane, Enflurane, Isoflurane, Sevoflurane and Desflurane); age corrected display of xMAC values
- Simultaneous display of 3 real-time curves for CO<sub>2</sub>, O<sub>2</sub> and anesthetic agent concentrations, airway pressure, inspiratory and expiratory flow
- Bar graph display of volume and tidal volume; virtual flow tubes for O<sub>2</sub>, AIR, N<sub>2</sub>O
- 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
- Low flow wizard to display fresh gas efficiency
- Fresh gas and anesthetic agent consumption measurement per case and per last zeroing
- AutoSet for alarm limits
- Device Status Panel with LC Display for airway pressure, gas flows, supply status of battery and gases (CGS + cylinders), time
- Dosing of O<sub>2</sub>, Air, N<sub>2</sub>O and anesthetic agents during Man/Spont ventilation possible, even without power
- 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](http://www.draeger.com)

#### USA

Draeger Medical, Inc.  
3135 Quarry Road  
Telford, PA 18969-1042, USA  
Tel +1 215 721 5400  
Toll-free +1 800 437 2437  
Fax +1 215 723 5935  
[info.usa@draeger.com](mailto:info.usa@draeger.com)

#### Manufacturer:

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

Locate your Regional Sales  
Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)

