Dräger Perseus® A500
Anaesthesia Workstations

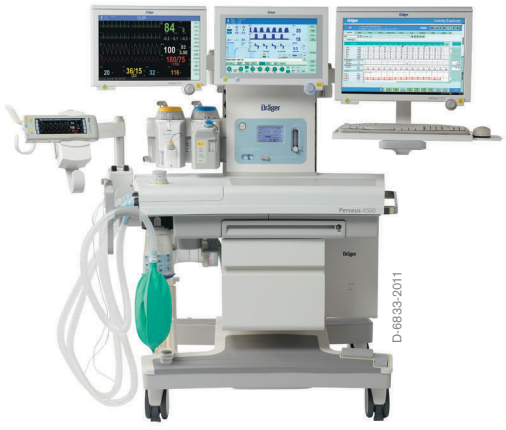
Outstanding ventilator technology meets the latest approaches to ergonomics and system integration in one innovative anaesthesia machine, developed together with experts from all over the world to streamline your anaesthesia workflow.

Dräger's colour touch standardised user interface for reduced training efforts and minimised human errors

Flexible and transportable monitoring solution ensure continuous patient monitoring

Improved workplace illumination for better readability and operation in dark environments

Hooks and brackets for hose and cable guidance, drawers, and shelves for optimal storage of important material



Perseus® A500 workstation incl. IACS patient monitoring, C700 for IT

Various mounting spots and rails for customised mounting of patient monitoring, IT hardware, IV pumps, and additional shelves

Additional LCD screen displays the gas supply and power status as well as airway pressure

Large working surface is convenient for writing documents and storing materials

High performance breathing system and the TurboVent2 ventilator for optimised minimal-flow anaesthesia and ICU Quality ventilation therapy for each patient's individual needs

Benefits

Advanced, economical ventilation technology

The Perseus A500 lets you achieve high-quality ventilation for individualised ventilation strategies, always facilitating and supporting the patient's spontaneous breathing. Lung recruitment functions provide manoeuvres to automate various operating sequences. You can adjust and individually control these at any time. Because of the optimised breathing system, changes in the gas concentration reach the patient more readily, especially during low- and minimal-flow anaesthesia.

Flexible workflow support

The workflow-support features of the Perseus A500 are designed to streamline and simplify routine tasks. The time-controlled, fully automatic self-test also includes innovative technologies like an O_2 real-gas test and automatic recognition of any incorrect connected breathing hoses. Other advantages include seamless monitoring transfer from bedside to the OR with a single monitor. The clinical situation oriented emergency start-up ventilation functions , incl. APRV, work even when the machine is switched off. The data analysis function enables an straightforward export of data by using a USB stick. In addition, the Perseus A500 uses RFID technology and can inform you when the individual Infinity ID accessories need to be replaced. Because of the many mounting possibilities for the holder arm and monitors, the Perseus A500 can be configured to meet individual needs. The variety of many remote service options, facilitates you to implement individualised remote maintenance concepts.

Prediction of inspiratory and expiratory concentrations of volatile anaesthetics

The Perseus A500 is compatible with Vapor 2000 and Vapor 3000 with auto-exclusion connection system. Combined with the VaporView option (and Vapor 3000/D-Vapor 3000), Perseus A500 provides you sophisticated oxygen and anaesthetic agent level and xMAC prediction technology. This allows you to administer low- and minimal-flow anaesthesia more intuitively.

Enhanced workplace ergonomics

The Perseus A500 contains many features that significantly improve workplace ergonomics. It has a spacious, well-lit work surface with plenty of storage space for consumable material. In addition, the optimally positioned central brake, suction unit and anaesthetic gas scavenging system allow you to use the Perseus A500 easily and intuitively. The integrated breathing system can be opened without tools and prepared for reprocessing.

Supportive design

Despite the Perseus A500's completely new design, the user interface utilizes the familiar Dräger operating system featuring the same rotary knob you know from other Dräger venitlators and anaesthesia devices. Therefore using the Perseus A500 is as straightforward as with any other Dräger medical device. The sleek, modern design makes the machine into an extremely flexible workspace that helps you simplify your workflow while maintaining the highest quality of therapy.

Benefits

Outstanding design

The Perseus A500 has been awarded two major design prizes: the 'iF Product Design Award 2013' in the category of medicine / health + care, and the "Red Dot Design Award 2013: Best of the Best" in the category of life sciences and medicine. Both awards count among the most important international design competitions and not only rate design quality, but also aspects such as safety, ergonomics, functionality, degree of innovation and, not least, environmental compatibility.

System Components

D-7420-2011

Dräger Vapor® 3000 / D-Vapor® 3000

So much more than just a container for volatile agents, the new Vapor® 3000 series is now even better in combination with the Perseus® A500 anaesthesia workstation especially in dark environments. It can even help you monitor and plan your anaesthesia for improved efficiency.

D-19739-2009

Infinity® Acute Care System

Transform your clinical workflow with Infinity® Acute Care System. Its multiparameter monitor integrates with its networked medical-grade workstation, giving you real-time vital signs, access to clinical hospital systems and data management applications for a comprehensive range of patient information and powerful analysis tools at the point-of-care.

System Components

MT-8848-2006

Infinity® Delta XL

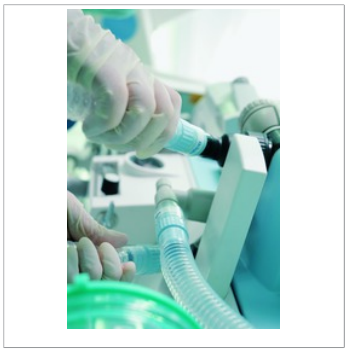
With a 12.2" (310 mm) colour screen, the Delta XL monitor can continuously monitor patients both at the bedside and during transport – thus eliminating the need for separate transport monitors. Supports all patient types and acuity levels throughout the hospital.

D-19709-2015

Dräger SmartPilot® View

SmartPilot® View provides innovative state-of-the-art modelling technology and a comprehensive visualisation concept of complex drug effects to display current and predicted anaesthesia levels. This intuitive display provides support at all phases of anaesthesia.

Accessories



D-14586-2009

Infinity® ID-Accessories

Each and every Infinity® ID-accessory has been designed to offer additional functionality, which can help you simplify routine tasks, streamline workflow and increase safety levels.

Accessories

D-42848-2012

WaterLock® 2

Perfect protection for precise gas measurement. Dräger WaterLock® 2 safely stops water from getting into the multi-gas sensor. The membrane technology developed by Dräger for the WaterLock® 2 stops any bacteria or germs from getting into the gas measurement system. The WaterLock® 2 is also safe and simple to empty – with a further advantage in handling and hygiene.

MT-2002-2008

Drägersorb® Soda Lime

High safety [1, 2] and CO_2 absorption capacity. Soda lime is essential for CO_2 absorption in inhalation anaesthesia machines with rebreathing systems. Yet conventional soda lime can produce Compound A and carbon monoxide.

MT-2909-2008

Breathing Systems and Accessories

Bringing indispensable experience to disposable convenience.

Related Products

D-9003-2016

Dräger Zeus® Infinity® Empowered

The Dräger Zeus® Infinity® Empowered (IE) combines ease of use with innovative technology. Taking the anaesthesia process well beyond present frontiers, the Zeus® IE represents a technological milestone which gives you an outstanding system integration and workflow control. The Dräger Zeus® IE lets you concentrate on your patient, not on your workstation.

D-412-2014

Dräger Primus® IE

Take performance, reliability, workflow and information management to the next level with one of the most advanced integrated anaesthesia solutions on the market today.

D-8103-2009

Dräger Primus®

Step up to the high standard of anaesthesia workstations and experience new levels of performance, efficiency and safety.

Technical Data

Technical Data	
Weight	Approx. 160 kg (basic setup)
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 auxiliary power outlets in use
Mains power supply	100 – 127 V ~ 50/60 Hz or 220 – 240 V ~ 50/60 Hz
Maximum power consumption	12 A
Integrated battery backup time	Min. 30, typically 150 minutes (with new and fully charged batteries)
Data interfaces	2 x RS 232 (MEDIBUS Protocol), 1 x USB, 1 x LAN
Integrated power sockets	4 x country-specific (with isolation transformer) or 4 x IEC
Storage surface and drawers	1 drawer with lock and writing surface (optional)
	2 additional drawers (optional), including one with lock
Working surface	Approx. 85 x 35-50 cm (suitable for DIN A3 paper format)

Application and ambient conditions	
Temperature	10 to 40 °C (50 to 104 °F)
Air pressure	620 to 1,060 hPa (9.0 to 15.3 psi) equivalent to 4,000 metre elevation

Fresh-gas delivery – electronic mixer	
Fresh-gas flow	OFF; 0.2 to 15 L/min
Dosable O_2 concentration	21 to 100 % in air; 25 to 100 % (in N_2O)
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 O_2 emergency delivery	OFF; 2 to 10 L/min O_2 safety flow is also fed through the Vapor when the device is switched off

Breathing system (heated)

- Volume: approx. 2.2 L (incl. CO_2 absorber)
- Absorber volume: approx. 1.2 – 1.5 L
- Reprocessing: cleaning, disinfection and sterilisation; replaceable without additional tools
- Number of individual components during reprocessing: 10
- Heated breathing system, exchangeable without additional tools

Ventilator

TurboVent2 Ventilator (electrically driven and electronically controlled turbo ventilator), fresh-gas decoupled, ventilation also possible without any gas supply (driving gas consumption 0 L/min), autoclavable

Standard ventilation modes	– Manual/Spontaneous (MAN/SPON) – Pressure-controlled: time-cycled (PC-CMV), synchronised (PC-BIPAP), – Volume-controlled: time-cycled (VC-CMV), synchronised (VC-SIMV), time-cycled AutoFlow (VC-CMV/AF), synchronised AutoFlow (VC-SIMV/AF)
Optional ventilation modes	– Pressure support: Pressure-supported ventilation (CPAP/Pressure Support), selectable pressure support for volume-controlled ventilation (VC-SIMV/PS), pressure-controlled ventilation (PC-BIPAP/PS) and AutoFlow (VC-SIMV/AF/PS), selectable CPAP for Manual/Spontaneous – Airway Pressure Release Ventilation (PC-APRV) – External fresh-gas outlet

Technical Data

	– Insp./Exp. hold, lung-recruitment manoeuvre (single-step or multi-step)
Patient demographics	Neonates, children, adults
Tidal volume	20 to 2,000 mL (in volume-controlled ventilation) 3 to 2,500 mL (in pressure-controlled ventillation)
Inspiratory pressure PINSP	3 to 80 hPa / mbar / cmH_2O
Pressure limitation PMAX	7 to 80 hPa / mbar / cmH_2O
Pressure support over PEEP	0 to 78 hPa / mbar / cmH_2O
Respiratory rate (frequency)	3 to 100 per minute
Inspiratory time	0.2 to 10 s
Inspiratory flow	0 to 180 L/min
PEEP/CPAP	OFF, 2 to 35 hPa / mbar / cmH_2O
I:E	1:50 to 50:1
Trigger sensitivity	0.3 to 15 L/min

Measuring systems, displays and other functionalities

- 15.3" (38.9 cm) touchscreen, configurable screen contents, smart alarm management with extensive support system
- Minute volume (MV) and tidal volume (VT and ΔVT); Respiratory rate (frequency); peak inspiratory pressure (PIP), plateau pressure (Pplat), mean airway pressure (Pmean), PEEP; compliance, resistance, MV×CO_2, O_2 uptake
- Inspiratory and expiratory gas concentration of O_2, N_2O, CO_2 and anaesthetic agents (automatic identification of halothane, enflurane, isoflurane, sevoflurane, desflurane); age-corrected xMAC display; Vapor setting (optional), anaesthetic-gas concentration prediction (optional); Insp. O_2 concentration prediction (optional)
- Simultaneous display of three or four real-time curves for: concentration of CO_2, O_2 and anaesthetic agents, airway pressure, inspiratory and expiratory flow;
- Bar diagram display of volume and tidal volume; virtual flow tubes for O_2, AIR, N_2O
- Simultaneous display of 2 loops: Volume-pressure and flow-volume, reference loop
- Display of graphical or tabular trends or mini-trends simultaneously with real-time curves and volume-pressure loop
- Econometer for displaying fresh-gas efficiency (optionally including temporal trend or in the form of low-flow assistant)
- Determination of consumption and uptake (determination of uptake only for anaesthetics) fresh gas and anaesthetics per case and since 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 O_2 and anaesthetic agents during MAN/SPON ventilation possible, even when device is switched offched off
- Programmable, time-based fully automatic start-up and self test of device and software including calibration of all sensors; normally no user action necessary after start of test
- Integrated, dimmable illumination of working and documentation surfaces, illuminated vaporizers (optional)
- Central brake, smooth running castors with cable deflectors
- Data storage on USB (alarm history, self-test results, screen shots, trends and machine configurations; optionally: log files)
- Free, six-week trial version of all available software options, activated individually by a Dräger representative. Option expires automatically after end of trial period.

Notes

Notes

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