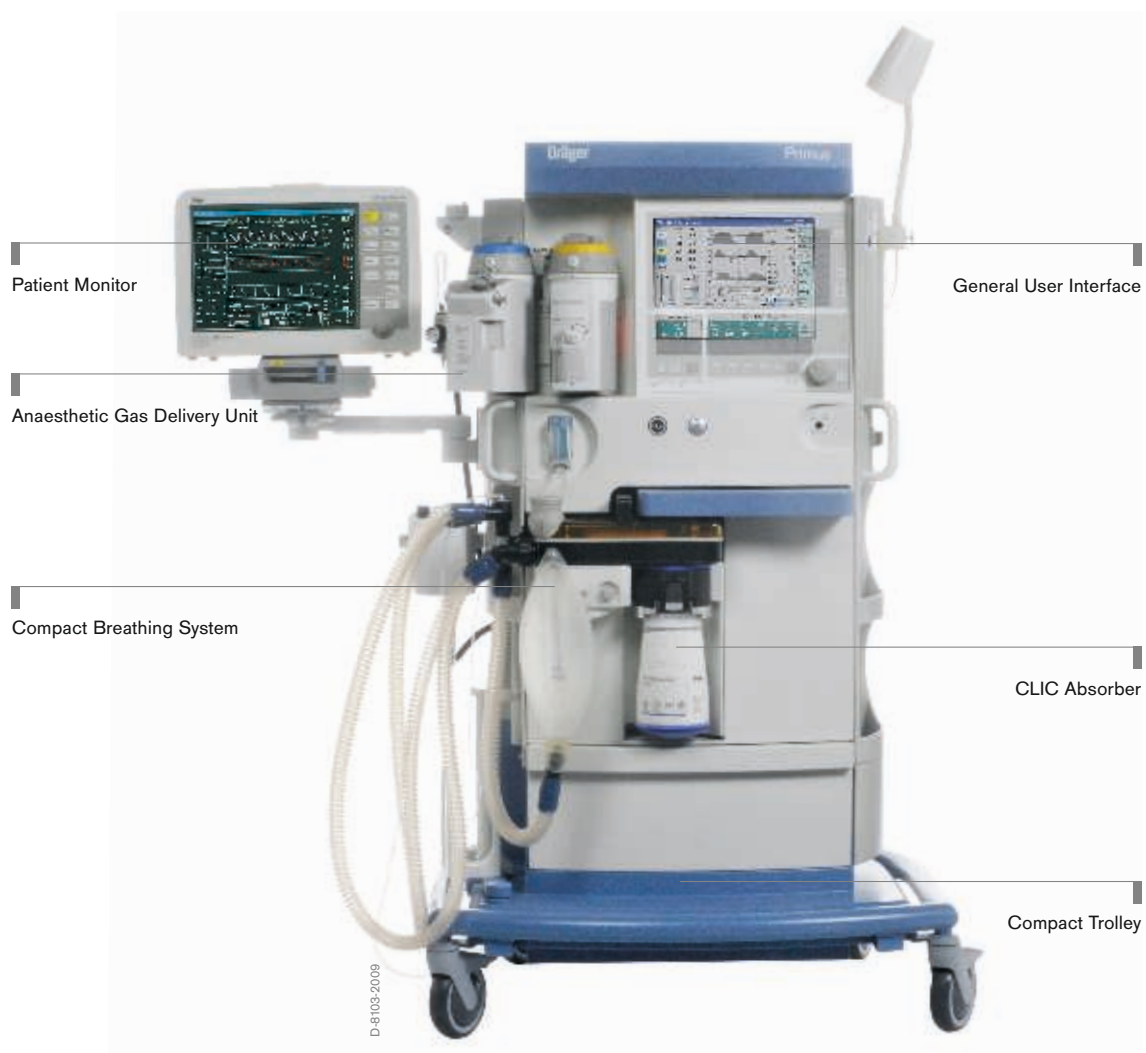


## Primus<sup>®</sup> Anaesthesia Workstations

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



## Benefits

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### Personal anaesthesia assistant

The Dräger Primus was designed to be nothing less than your personal anaesthesia assistant. It's a combination of time-tested design and state-of-the-art technology created to answer the demand for a modern, comprehensive anaesthesia solution for today's increasingly complex healthcare environment.

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### ICU standard ventilation

An increasing percentage of critically ill patients in the operating room calls for new standards in anaesthesia platforms. With the E-Vent® plus high-speed electronic piston ventilator, the Primus delivers just that – peak flow comparable to ICU ventilators while avoiding the need for drive gas. A full range of volume and pressure oriented modes provides the various options for every clinical situation. Additional advanced monitoring and ventilation mode packages are also available that will expand your capabilities.

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### Common operating philosophy

The Primus uses the familiar user interface and operating philosophy common to all current Dräger medical devices. This means that in spite of its impressive level of sophistication, your staff will spend a minimum amount of time learning how to use the Primus.

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### Comprehensive monitoring

The Dräger Primus lets you monitor pulmonary function and ventilation parameters on a large, user-configurable 12,1" TFT colour display. Its open architecture design provides the option to add additional displays, permitting you to expand your monitoring capability to include haemodynamic and other data.

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### Enhanced workflow

Features like fully automatic self-check, open architecture, standard user interfaces and flexible monitoring options were designed to help reduce costs, save time and allow caregivers to focus on their primary task – the patient.

## System components



D-28736-2015

### Dräger Vapor® 2000 and D-Vapor®

Dräger vaporisers have been the benchmark for quality for over 50 years. Quality trusted by doctors and nurses around the world: to date, over 400,000 Vapor units have been sold to hospitals around the world.



D-19739-2009

### Infinity® Acute Care System

Transform your clinical workflow with the Infinity® Acute Care System monitoring solution. This innovative two-screen solution opens the door to a new dimension of patient mobility, connectivity and configurability – providing for the seamless transition of the patient and their information with a single monitor that travels with the patient throughout the care path.



MT-8948-2006

### 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.

## Accessories



MT-2002-2008

### Drägersorb® Soda Lime

High safety <sup>1,2</sup> and CO<sub>2</sub> absorption capacity. Soda lime is essential for CO<sub>2</sub> absorption in inhalation anaesthesia machines with rebreathing systems. Yet conventional soda lime can produce Compound A and carbon monoxide.



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-2809-2008

### Breathing Systems and Accessories

Bringing indispensable experience to disposable convenience.

## Related Products



D-6838-2014

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### Dräger Fabius® Tiro

Get the most out of even the smallest spaces with a compact yet fully featured anaesthesia solution designed for use in a variety of specialised environments.



D-6833-2011

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### Dräger Perseus® A500

Combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced anaesthesia platform designed together with experts from around the world to streamline your anaesthesia workflow.

## Technical Data

Gas flow control	
Weight	115 kg (without vaporizers or cylinders)
Dimensions (H x W x D)	137 cm x 80 cm x 80 cm
Power	200 W, typical
Operating voltage	100–240 V~, 45–65 Hz
Integrated power backup	at least 30 minutes, typical 90 minutes, depending on ventilation mode
Ventilator E-Vent® plus	Electrically driven and electronically controlled
Operating Modes	Manual, spontaneous, Volume Mode (IPPV), Pressure Mode (PCV), Optional: Pressure Support (PS), Synchronized volume controlled ventilation (SIMV), optional with PS, Synchronized pressure controlled ventilation, optional with PS
Pressure limitation $P_{MAX}$ (in Volume Mode)	(PEEP+10) up to 70 hPa
Pressure limitation $P_{INSP}$ (in Pressure Mode)	(PEEP+5) up to 70 hPa
Trigger	0.3–15 L/min
Tidal volume (in Volume Mode)	20–1400 mL 5–1400 mL (option)
Tidal volume (in Pressure Mode)	10–1400 mL
Breathing frequency (freq.)	3–80 1/min
Inspiration time ( $T_{INSP}$ )	0.2–6.7 s
Inspiration/Expiration time ratio (I:E)	max. 5:1 to 1:99
Plateau time ( $T_{IP}-T_{INSP}$ )	0–60 %
PEEP in Volume Mode	0–20 hPa (max. $P_{MAX}$ –10 hPa)
PEEP in Pressure Mode	0–20 hPa (max. $P_{INSP}$ –5 hPa)
Fresh-gas flow	0 and 0.2–18 L/min
$T_{SLOPE}$ (in Pressure Mode and Pressure Support)	0–2 s
Total system leakage	< 150 mL at 30 hPa (automatic leak test)
O <sub>2</sub> flow control	Sensitive ORC function: at least 25 Vol.% or 200 mL/min for nitrous oxide (N <sub>2</sub> O) as carrier gas; O <sub>2</sub> concentration: 21–100 Vol.%
O <sub>2</sub> flush	> 35 L/min
O <sub>2</sub> safety flow	0–12 L/min
External fresh gas outlet	optional
Monitoring	Inspiratory and expiratory concentration of O <sub>2</sub> , N <sub>2</sub> O, CO <sub>2</sub> as well as anaesthetic agents (Halothane, Isoflurane, Sevoflurane, Desflurane); Minute volume (MV) and Tidal volume (VT); Breathing frequency; Peak pressure, plateau pressure, mean pressure, PEEP; Patient compliance CPAT; Option: Functional oxygen saturation (SpO <sub>2</sub> )  The following parameters maybe displayed as waveforms: Concentration of CO <sub>2</sub> , O <sub>2</sub> , as well as anaesthetic agents, airway pressure, inspiratory and expiratory flow; Option: Plethysmogram; Bar graph display of volumeter and tidal volume; Virtual flow tubes for O <sub>2</sub> , AIR, N <sub>2</sub> O; Display of graphical trends and numerical lists of measured values; AutoSet for alarm limits
Serial interface	3 x RS 232
Protocol	Medibus
Absorber volume	1.5 L

## Notes

## Notes

### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
[www.draeger.com](http://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](mailto:info@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](mailto:contactcsa@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](mailto: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](mailto:asia.pacific@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  
[dlmfr-contact@draeger.com](mailto:dlmfr-contact@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](mailto:Canada.support@draeger.com)

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

