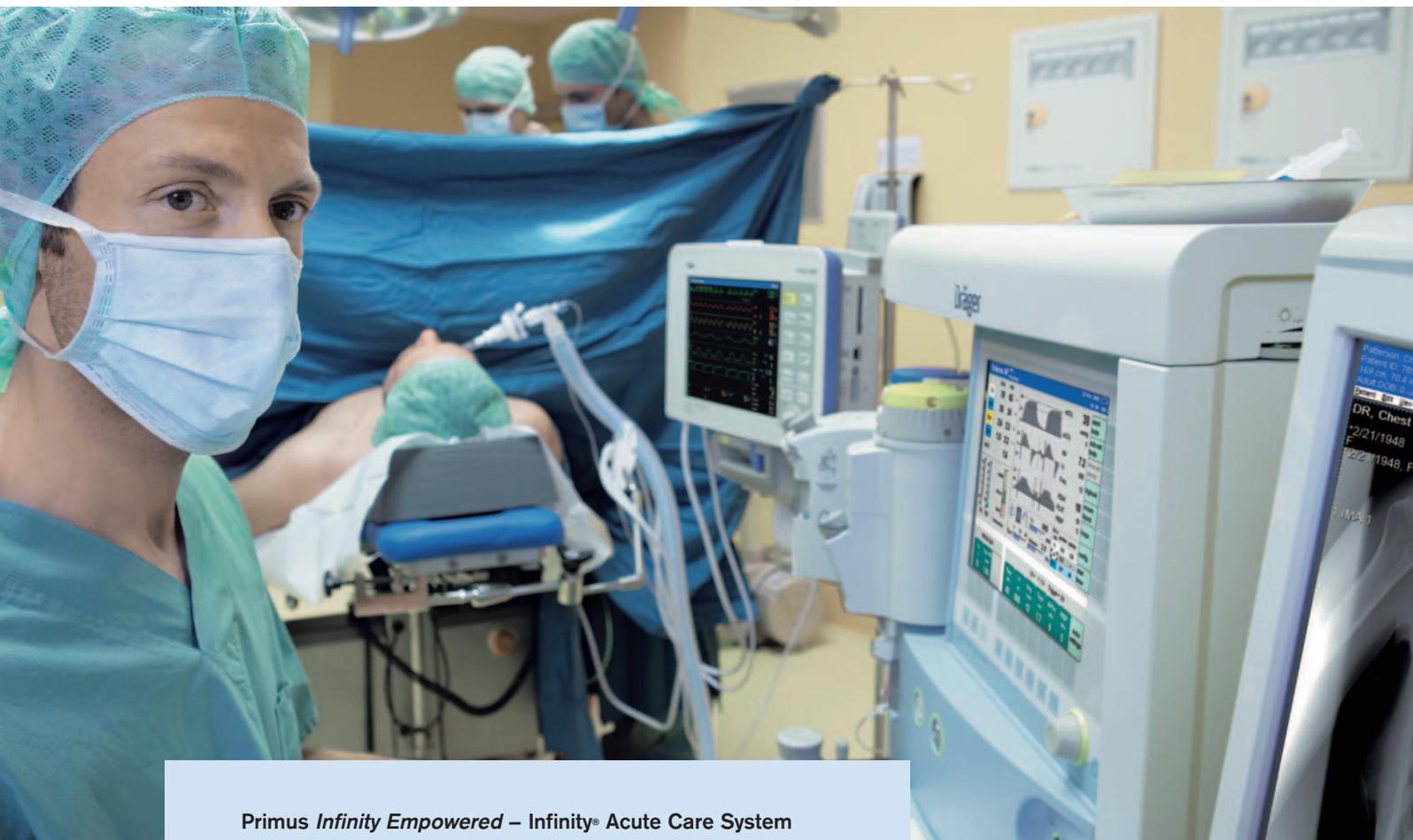


Primus Infinity[®] Empowered



Welcome to the next level

The next level of reliable performance



Primus *Infinity Empowered* – Infinity® Acute Care System

Dräger takes CareArea™ integration to a new level with the *Primus Infinity Empowered*. It's the first solution of its kind, capable of seamlessly integrating our state-of-the-art Primus anesthesia workstation into the Infinity® Acute Care System™. As a result, *Primus Infinity Empowered* brings workflow and utilization to the next level, while eliminating gaps in the patient record to enhance reliable decision support and quality of patient care.

Empowering next-generation connectivity

By working closely with medical professionals and continuously analyzing the needs of customers in the perioperative care environment, Dräger has been innovating anesthesia for more than 100 years. Today's *Primus Infinity Empowered* enables you to take advantage of the latest monitoring, anesthesia information system solutions and hospital information system technology. It allows you to integrate comprehensive data in the OR.



The integrated solution: *Primus Infinity Empowered* with Omega WideScreen

- Supports an integrated Infinity Acute Care System environment
- Easily scalable to correspond to your needs – and open for future developments
- Cost-effective way to consistently evolve your standard of care
- Reliability and quality of care



The next level of care



Operating at a higher level

The Primus *Infinity Empowered* has the outstanding precision and performance of the electronically driven E-Vent™ plus ventilator inside. Based on feedback from the users of our more than 15,000 Primus family products in hospitals around the world, we have developed additional innovations that enhance anesthesia performance while improving user convenience.

- New level of patient safety is achieved automatically by monitoring the xMAC value for an assessment of depth of anesthesia.
- Improve cost control with anesthetic agent consumption and uptake calculations for the entire case
- Standard service interval of 1 year giving a better cost of ownership



The next level of ventilation performance

Comprehensive ventilation capabilities assure uncompromising patient therapy for all patient age ranges and situations.

- Improved neonatal ventilation due to enhanced sensitivity of flow measurement for tidal volume settings down to 5 ml, and a frequency of up to 100 1/min.
- Primus *Infinity Empowered* brings you to the next level of lung protective ventilation with the new ventilation mode Volume Autoflow®, combining all advantages of volume and pressure controlled ventilation.
- Continuous positive airway pressure in pressure support ventilation enables spontaneous breathing on a set pressure level.

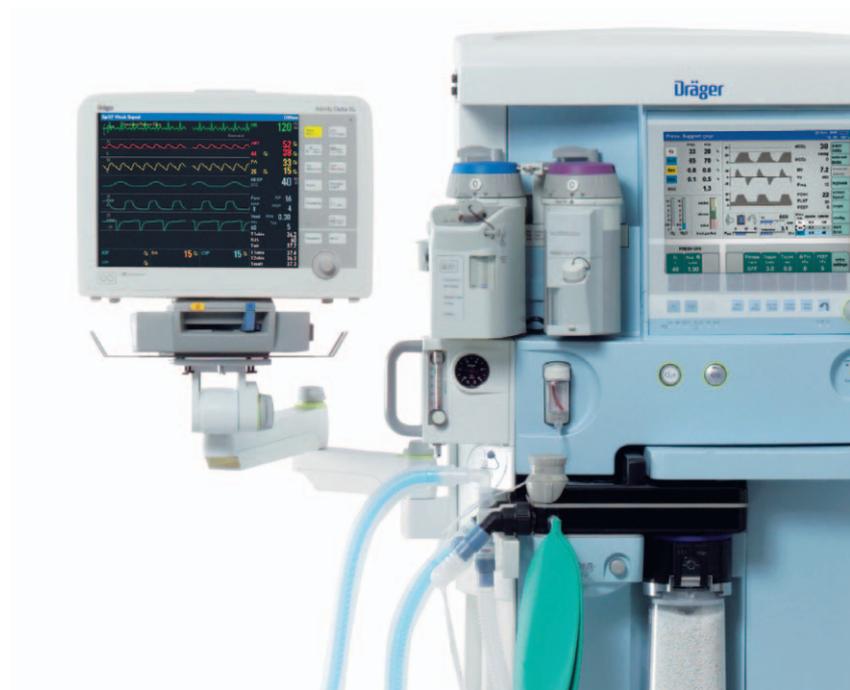
Next level of minimal flow performance

The Primus *Infinity Empowered* anesthesia workstation combines the benefits of the compact, heated breathing system with electronically controlled fresh-gas delivery and the E-Vent™ *plus* ventilator, making low and minimal flow delivery easily attainable.

Low and minimal flow anesthesia helps to preserve the upper airways while reducing the potential for post-operative complications due to infections. At the same time you can reduce anesthetic agent costs by up to 50%*.

- Conditioning of breathing gas for the most convenient ventilation
- Intuitive guide to the optimum low flow settings: The Econometer. It supports safety and ease of implementation by helping eliminate gas deficiencies.

* Jan Baum, Die Inhalationsnarkose mit niedrigem Frischgasfluß, Thieme, 1998





The next level of process optimization

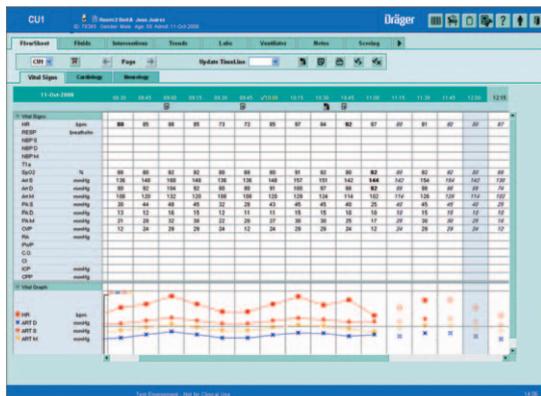
A smart way of enhancing care

The Primus *Infinity Empowered* can support you with increased efficiency as it improves care delivery. Its well accepted, intuitive user interface is easy to use and helps to reduce training requirements and associated costs. Meanwhile, its upgradeability helps you leverage your investment over time.

The open-architecture design of Primus *Infinity Empowered* solution gives you high flexibility to incorporate it into your information network. In combination with Infinity® Explorer you gain networked access to lab data, X-rays and PDMS, to speed-up your decision making process. The Innovian Periop with its electronic scheduling system makes it easier to optimize OR and staff utilization.

Primus *Infinity Empowered* is prepared for the upcoming wireless accessory detection system for Infinity® ID accessories. This system will also support you to enhance your workflow efficiency and safety, checking the integrity of the workstation and monitoring replacement intervals.

Put it all together and you have a pivotal solution for achieving the next level of integrated CareArea™ efficiency – Primus *Infinity Empowered*.



Workflow benefits

- Speeds data access to expedite decision-making
- Reduces time staff has to spend collecting data
- Intuitive user interface design consistently deployed across monitoring, IT and therapy applications throughout the hospital promote proficiency with less training time and expense
- Assures uninterrupted flow of vital signs data with the seamless connectivity of our state-of-the-art transport monitoring

Next-level benefits

- Excellent ventilation performance
- Minimal and low-flow capabilities
- Process driven monitoring
- Dräger reliability

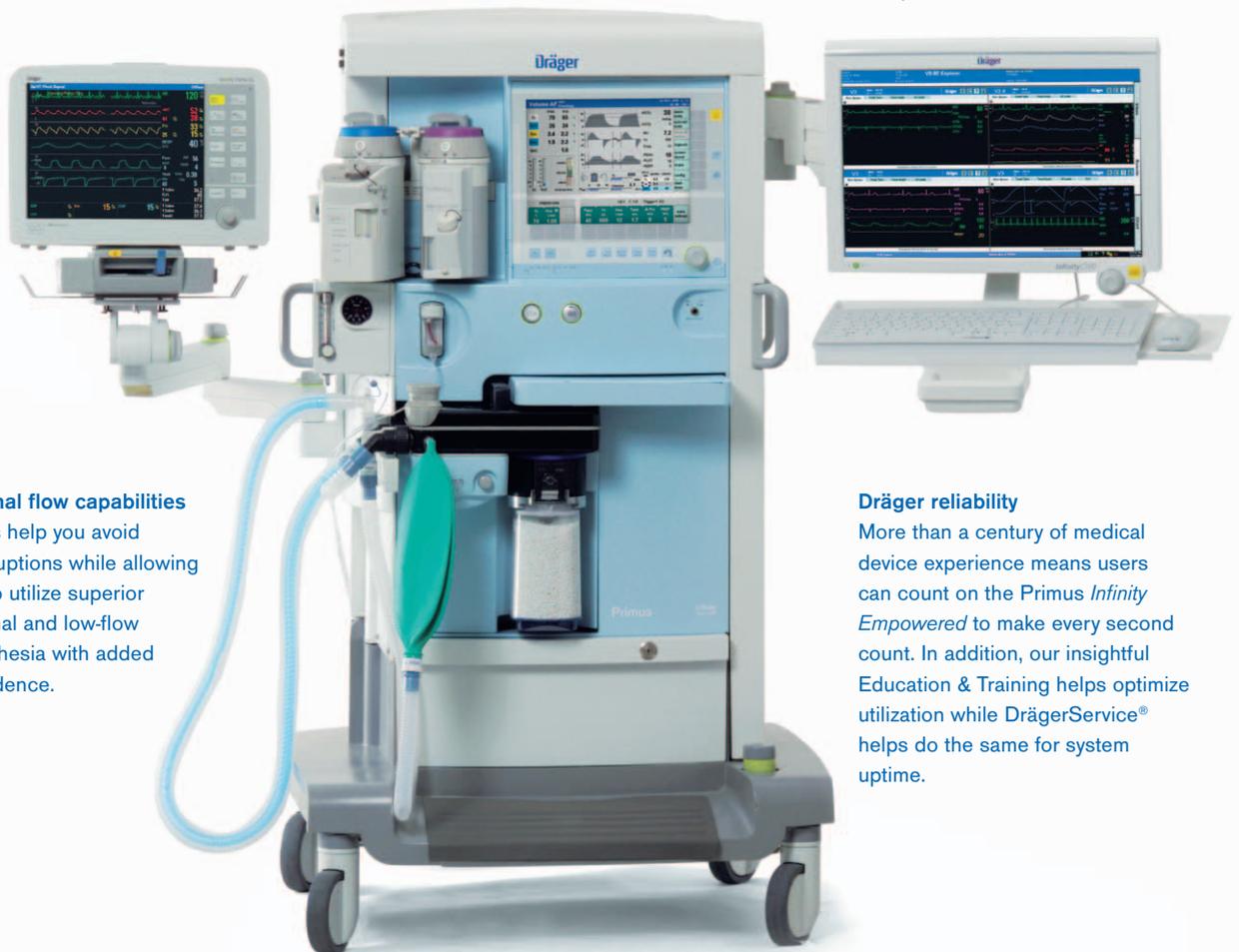


Process driven monitoring

Consistent vital signs with Infinity® monitoring from initial transport all the way through to recovery... and beyond.

Excellent ventilation performance

Includes automated recording of information for the patient record, so system users can concentrate on the situation and the patient for exceptional care.



Minimal flow capabilities

Alerts help you avoid interruptions while allowing you to utilize superior minimal and low-flow anesthesia with added confidence.

Dräger reliability

More than a century of medical device experience means users can count on the Primus *Infinity Empowered* to make every second count. In addition, our insightful Education & Training helps optimize utilization while DrägerService® helps do the same for system uptime.

Operating data

| | |
|--|---|
| Weight | 147 kg (without vaporizers or cylinders) |
| Dimensions (H x W x D) | 138 cm x 80 cm x 80 cm |
| Power | 200 W, typical, max. 2.5 kW with power drawn from auxiliary outlets |
| Operating voltage | 100 - 240 V [~] , 45 - 65 Hz |
| Integrated power backup | at least 30 minutes, up to 90 minutes, depending on ventilation mode |
| Serial interface | 2 x RS 232, 1 x Dräger Base (IV System) |
| Protocol | Medibus |
| Ventilator E-Vent [®] plus | Electrically driven and electronically controlled |
| Operating Modes | Manual, spontaneous Volume Mode; synchronized, optional with PS Pressure Mode; synchronized, optional with PS Option: Pressure Support (PS), Volume Mode Autoflow; synchronized, optional with PS |
| Pressure limitation P _{MAX} (in Volume Mode) | (PEEP+10) to 70 hPa |
| Pressure limitation P _{INSP} (in Pressure Mode) | (PEEP+5) to 70 hPa |
| Trigger | 0.3 - 15 L/min |
| Tidal volume (in Volume Mode) | 20 - 1400 mL, 5 - 1400 mL with option Advanced Ventilation |
| Tidal volume (in Pressure Mode) | to 1400 mL |
| Breathing frequency (freq.) | 3 - 100 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 % |
| Inspiratory flow (in Pressure Mode) | max. 150 L/min |
| 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 (electronically controlled fresh-gas delivery) |
| TSLOPE (in Pressure Mode and Pressure Support) | 0 - 2 s |
| Total system leakage | < 150 mL at 30 hPa (automatic leak test) |
| O ₂ flow control | O ₂ concentration: 21 - 100 Vol.% Sensitive ORC function: at least 25 Vol.% or 200 mL/min for nitrous oxide (N ₂ O) as carrier gas |
| O ₂ flush | > 35 L/min |
| O ₂ safety flow | 0 - 12 L/min |
| Flow meter for oxygen delivery | optional; 0 to 10 L per minute |
| External fresh gas outlet | optional |
| Monitoring | |
| Inspiratory and expiratory concentration of O ₂ , N ₂ O, CO ₂ as well as anesthetic agents, (Halothane, Enflurane, 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 ₂) | |
| The following parameters may be displayed as waveforms: Concentration of CO ₂ , O ₂ , as well as anesthetic agents, airway pressure, inspiratory and expiratory flow; Option: Plethysmogram | |
| Bar graph display of volumeter and tidal volume; Virtual flow tubes for O ₂ , AIR, N ₂ O; Display of graphical trends and numerical lists of measured values; AutoSet for alarm limits | |
| Consumption measurement | Fresh-gas consumption per case, Total agent consumption per case (option Advanced Monitoring), Agent consumption due to patient uptake per case (option Advanced Monitoring) |
| The colors of Primus <i>Infinity Empowered</i> may differ from the color of the Primus <i>Infinity Empowered</i> pictures in this brochure | |

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The quality management system at
Dräger Medical AG & Co. KG is
certified according to ISO 13485, ISO 9001
and Annex II.3 of Directive 93/42/EEC
(Medical devices).