







# The advanced integrated ICU venti



## Smart

Incorporating automated weaning, visualization of pulmonary functions and RFID-based technology – the V500 is a smart choice.

SmartCare®/PS is the automatic, knowledge-based weaning system. The new version of SmartCare®/PS lets you configure weaning parameters for enhanced flexibility and control:

- SmartCare®/PS has been shown to reduce weaning times by up to 40% and ventilation times by up to 33%<sup>1)</sup>. This can help improve outcome and reduce risks while simultaneously lowering costs.

The Smart Pulmonary View performs real-time visualization of pulmonary function data. By turning data into useful visual information, the Smart Pulmonary View helps reduce the cognitive workload of ICU staff.

- Visual representation of data in real time
- Intuitive anatomical analogy
- Reduction of cognitive load

Infinity® ID accessories were developed to simplify handling and optimize workflow:

- **Mismatch control** detects false connections of the circuit to the ports and triggers an alarm, virtually eliminating the possibility of mismatched breathing circuits.
- **Configuration control** detects the connected breathing circuit type and adjusts device settings accordingly.
- **Exchange control** reminds personnel of preselected replacement intervals for breathing circuits, disposable expiration valve and water trap.
- **Transfer of ventilation settings** copies ventilation settings just by connecting the circuit to another V500.

<sup>1)</sup> F. Lellouche et al.; Am J respir Care Med Vol 174, pp 894-900, 2006. Results are based on a European Multicenter Randomized Trial with 144 patients demonstrating improved respiratory condition, with stable hemodynamic and neurologic status, and no ARDS prior to initiating weaning

# lation system



## Mobile

High level ventilation therapy during transport – that's mobility with the V500.

The mobile power supply PS500 greatly expands your transport range:

- This compact yet powerful battery pack will give you at least 100 minutes of independent power.

The GS500 mobile air supply provides air wherever needed:

- The GS500 is an electrically driven, turbine powered air supply unit that can keep you independent of a compressed air source indefinitely.

The Transport Supply Unit TSU lets you transport oxygen cylinders easily:

- The optional TSU can be quickly attached to the V500 transport trolley for ergonomic handling of large cylinders.

## Scalable

Uncompromising scalability now and in the future - the V500 is a safe investment.

The V500 is equipped with standardized interfaces for optional hardware components or software upgrades.

- The device-set-up can be adjusted to changing patient needs over the course of treatment.
- For the treatment of all patient ranges, the V500 provides optional neonatal ventilation capabilities.
- Additional Infinity® Acute Care System™ components linked to the system will reveal potential synergies departmental or crossdepartmental level.



## Standardized

Setting your individual standard – quick and easy configuration with the V500.

With its configuration export function, you can easily copy user interface, therapy and alarm configurations to a standard USB storage device.

- V500s can be easily standardized with the configuration of your choice within minutes.
- This same function also allows a quick export of screen dumps and data, such as logbooks and trends, further supporting information exchange and documentation.
- A common medical cockpit supports cross-departmental standardization with aligned nomenclature. And the user-friendly operating concept helps to reduce training efforts and makes the V500 easy to learn and to operate.

## Integrated

An integral system component with exciting standalone features – the V500.

- Workplace integration: V500 can be mounted to a 38mm pole or on vertical front rails.
- Power and air integration: Secure independence from air and power supplies with the GS500 and PS500.
- Service integration: The Infinity® Service program ensures that your V500 can always be updated with the latest software and helps to maximize device uptime.

# Invasive and non-invasive ventilation

The Dräger Infinity® V500 gives you world-class ventilation designed for patients of all ages and acuity levels.

## Invasive ventilation

Aside from a complete range of standard invasive ventilation patterns, the V500 incorporates advanced invasive ventilation features not found in any other ventilator.

## SmartCare®/PS

- The automated, knowledge based weaning system, now complete with configurable weaning protocol parameters for added flexibility.

## Variable PS

- Subtle, random variations in inspiratory pressure have been shown to have a positive effect on pulmonary function.<sup>2)</sup> This “noisy” PS ventilation mimics the natural variation of biological systems.

## APRV AutoRelease

- Dräger’s APRV AutoRelease automatically optimizes  $T_{low}$  to terminate expiration at an adjustable percentage of peak expiratory flow, keeping end-expiratory lung volume and  $CO_2$  removal optimally balanced, even in the face of changing respiratory mechanics and expiratory flow patterns.

## Full-featured, non-invasive ventilation.

- With its automatic, dynamic compensation features, the V500 successfully manages one of the most common issues in NIV: leaks. In order to rapidly restore optimal synchrony, the V500 recognizes and compensates for leaks quickly by adjusting both inspiratory trigger and termination points.



<sup>2)</sup> Abreu MG; Noisy pressure support ventilation: A pilot study on a new assisted ventilation mode in experimental lung injury; Crit Care Med 2008 Vol. 36, No. 3

#### HEADQUARTERS

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

[www.draeger.com](http://www.draeger.com)

From September 2010:  
Dräger Medical AG & Co. KG  
changes into  
**Dräger Medical GmbH**

#### REGION EUROPE CENTRAL AND EUROPE NORTH

Dräger Medical AG & Co. KG  
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 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](mailto:d1mfr-contact@draeger.com)

#### REGION MIDDLE EAST, AFRICA, CENTRAL AND SOUTH AMERICA

Dräger Medical AG & Co. KG  
Branch Office Dubai  
Dubai Healthcare City  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel + 971 436 24 762  
Fax + 971 436 24 761  
[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 NORTH AMERICA

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:

Dräger Medical AG & Co. KG  
23542 Lübeck, Germany  
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).