

## Evita® V300 ICU Ventilation and Respiratory Monitoring

The Evita® V300 is a scalable and versatile device which offers high ventilation quality. To meet and master the changing conditions and challenges of your everyday hospital work you need flexible equipment with versatile opportunities.



## Benefits

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### Versatile and scalable

- Ventilation for adults, children and neonates: invasive, non-invasive and with O<sub>2</sub>-therapy
  - Volume- or pressure-controlled ventilation, spontaneous breathing
  - Independence due to optional gas and power supply units: GS500 (compressed air), PS500 (power), TSU (gas)
  - Flexible workstation integration by attaching to supply unit or trolley
  - Individually adjustable configurations easily transferred via USB
  - Context-sensitive help function facilitates setting the ventilation parameters and explains device functions
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### High ventilation quality I

- Automatic tube compensation (ATC) compensates for artificial airway resistance
  - Automatic leak compensation with invasive and non-invasive ventilation
  - AutoFlow® in volume-controlled ventilation provides the tidal volume at the lowest possible pressure
  - PC-APRV with optional AutoRelease enables spontaneous breathing with continuous positive airway pressure and short-term pressure relief
  - Breathing deeply and freely thanks to AutoFlow®, Volume Guarantee (VG) or SPN-CPAP
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### High ventilation quality II

- Various spontaneous breathing support, e.g.: VC-MMV, SPN-PPS, Volume Support (VS), Pressure Support (PS)
- Advanced analysis tools such as trends or CO<sub>2</sub> monitoring
- Automatic weaning with SmartCare®/PS
- Graphical representation of breathing resistance and elasticity with Smart Pulmonary View

The scope of functions offered by the Evita V300 is individually scalable with optional hardware and software components.

## Related Products



MT-6073-2008

### Dräger Evita® Infinity® V500 ventilator

Combine fully-featured, high-performance ventilation with Infinity® Acute Care System™ integration to meet the challenges of today's health care environment.



D-12306-2016

### Dräger Savina® 300 Classic

The Dräger Savina® 300 Classic (in this configuration) combines the independence and power of a turbine-driven ventilation system with a wide range of ventilation modes. The large color touch screen and intuitive operating system that concentrates on essential features make configuration and operation very simple.



MT-0487-2007

### Dräger Carina®

Designed for non-invasive ventilation: With its unique SyncPlus® technology and an extended NIV function, the user-friendly Dräger Carina® offers reliable and easy ventilation – and thanks to its compact design, this also applies when transporting patients.



D-25283-2009

### Dräger PulmoVista® 500

Making ventilation visible. Put the power of Electrical Impedance Tomography (EIT) to work for you and your patients. With the PulmoVista® 500, you can visualise regional air distribution within the lungs - non-invasive, in real time and directly at bedside.

## Technical Data

Patient type	Adults, pediatric patients, neonates
<b>Ventilation settings</b>	
Ventilation mode	<p>Volume controlled ventilation</p> <ul style="list-style-type: none"> <li>- VC-CMV</li> <li>- VC-SIMV</li> <li>- VC-AC</li> <li>- VC-MMV</li> </ul> <hr/> <p>Pressure controlled ventilation</p> <ul style="list-style-type: none"> <li>- PC-CMV</li> <li>- PC-BIPAP<sup>1</sup> / SIMV+</li> <li>- PC-SIMV</li> <li>- PC-AC</li> <li>- PC-APRV</li> <li>- PC-PSV</li> </ul> <hr/> <p>Support of spontaneous breathing</p> <ul style="list-style-type: none"> <li>- SPN-CPAP/PS</li> <li>- SPN-CPAP/VS</li> <li>- SPN-CPAP</li> <li>- SPN-PPS</li> </ul>
Enhancements	<ul style="list-style-type: none"> <li>- AutoFlow™ / Volume Guarantee (VC-AC)</li> <li>- Smart Pulmonary View</li> <li>- Automatic Tube Compensation® (ATC)</li> <li>- Mask Ventilation (NIV)</li> <li>- CO<sub>2</sub> monitoring</li> <li>- Monitoring Plus – additional Trends and Loops</li> <li>- SmartCare®/PS 2.0 – Automated clinical protocol in SPN-CPAP/PS</li> <li>- O<sub>2</sub>-therapy</li> </ul>
Special procedures	<ul style="list-style-type: none"> <li>- Suction maneuver</li> <li>- Manual inspiration/hold</li> <li>- Medication nebulization</li> <li>- P0.1</li> <li>- PEEPi</li> <li>- NIF</li> </ul>
Therapy types	<ul style="list-style-type: none"> <li>- Invasive ventilation (Tube)</li> <li>- Non-invasive ventilation (NIV)</li> <li>- O<sub>2</sub>-therapy</li> </ul>
Ventilation frequency (RR)	Adults 0.5 to 98/min Pediatric patients, Neonates 0.5 to 150/min
Inspiration time (Ti)	Adults 0.11 to 10 s Pediatric patients, Neonates 0.1 to 10 s
Tidal volume (VT)	Adults 0.1 to 3.0 L Pediatric patients 0.02 to 0.3 L Neonates 0.002 to 0.1 L
Inspiratory flow (Flow)	Adults 2 to 120 L/min Pediatric patients, Neonates 2 to 30 L/min
Inspiratory pressure (P <sub>insp</sub> )	1 to 95 mbar (or hPa or cmH <sub>2</sub> O)
Inspiratory pressure limit (P <sub>max</sub> )	2 to 100 mbar (or hPa or cmH <sub>2</sub> O)
PEEP / intermittent PEEP (ΔintPEEP)	0 to 50 mbar (or hPa or cmH <sub>2</sub> O)
Pressure assist (P <sub>supp</sub> )	0 to 95 mbar (or hPa or cmH <sub>2</sub> O)

## Technical Data

Rise time for pressure assist (Slope)	Adults, Pediatric patients 0 to 2 s Neonates 0 to 1.5 s
O <sub>2</sub> concentration (FiO <sub>2</sub> )	21 to 100 Vol.%
Trigger sensitivity (Flow trigger)	0.2 to 15 L/min
Automatic Tube Compensation® (ATC)	Inside tube diameter (tube Ø) <ul style="list-style-type: none"> <li>- Endotracheal tube (ET) <ul style="list-style-type: none"> <li>Adults 5 to 12 mm (0.2 to 0.47 inch)</li> <li>Pediatric patients 2 to 8 mm (0.08 to 0.31 inch)</li> <li>Neonates 2 to 5 mm (0.08 to 0.2 inch)</li> </ul> </li> <li>- Tracheostoma tube (Trach.) <ul style="list-style-type: none"> <li>Adults 5 to 12 mm (0.2 to 0.47 inch)</li> <li>Pediatric patients 2.5 to 8 mm (0.1 to 0.31 inch)</li> </ul> </li> <li>- Degree of compensation 0 to 100 %</li> </ul>
<b>Airway Pressure Release Ventilation (PC-APRV)</b>	
Inspiratory time (Thigh)	0.1 to 30 s
Expiratory time (Tlow)	0.05 to 30 s
Maximum time of low pressure level in APRV/PEF (Tlow max)	0.05 to 30 s
Inspiratory pressure (Phigh)	1 to 95 mbar (or hPa or cmH <sub>2</sub> O)
Expiratory pressure (Plow)	0 to 50 mbar (or hPa or cmH <sub>2</sub> O)
Termination criterion (peak expiratory flow) Exp. term.	1 to 80 % (PEF)
<b>Proportional Pressure Support (SPN-PPS)</b>	
Flow Assist (Flow Assist)	Adults 0 to 30 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s) Pediatric patients 0 to 100 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s) Neonates 0 to 300 mbar/L/s (or hPa/L/s or cmH <sub>2</sub> O/L/s)
Volume Assist (Vol. Assist)	Adults 0 to 100 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)
corresponds to compliance compensation	10,000 to 10 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O) Pediatric patients 0 to 1,000 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)
corresponds to compliance compensation	10,000 to 1 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O) Neonates 0 to 4,000 mbar/L (or hPa/L or cmH <sub>2</sub> O/L)
corresponds to compliance compensation	1,000 to 0.3 mL/mbar (or mL/hPa or mL/cmH <sub>2</sub> O)
O <sub>2</sub> -therapy	Continuous Flow 2 to 50 L/min O <sub>2</sub> concentration FiO <sub>2</sub> 21 to 100 Vol%
Leakage compensation	On/Off – On: full compensation active; Off: only trigger compensation active
<b>Displayed measured values</b>	
Airway pressure measurement	Plateau pressure (Pplat) Positive end-expiratory pressure (PEEP) Peak inspiratory pressure (PIP) Mean airway pressure (Pmean) Minimum airway pressure (Pmin) Range -60 to 120 mbar (or hPa or cmH <sub>2</sub> O)
<b>Flow Measurement</b>	
Minute volume measurement	Expiratory minute volume (MVe) Inspiratory minute volume (MVi) Mandatory expiratory minute volume (MVemand) Spontaneous expiratory minute volume (MVespon) Minute volume, leakage-compensated (MV) Range 0 to 99 L/min BTPS

## Technical Data

Tidal volume measurement	<p>Tidal Volume (VT)</p> <p>Inspiratory tidal volume (not leakagecompensated) of mandatory breaths (VT<sub>mand</sub>)</p> <p>Expiratory tidal volume (not leakagecompensated) of mandatory breaths (VT<sub>emand</sub>)</p> <p>Inspiratory tidal volume (not leakagecompensated) of spontaneous breaths (VT<sub>ispon</sub>)</p> <p>Range 0 to 5,500 mL BTPS</p>
Respiratory rate measurement	<p>Breathing frequency (RR)</p> <p>Mandatory respiratory rate (RR<sub>mand</sub>)</p> <p>Spontaneous breathing frequency (RR<sub>spon</sub>)</p> <p>Range 0/min to 300/min</p>
O <sub>2</sub> measurement (inspiratory side)	<p>Inspiratory O<sub>2</sub> concentration (FiO<sub>2</sub>)</p> <p>Range 18 to 100 Vol%</p>
CO <sub>2</sub> measurement in mainstream (adults and pediatric patients only)	<p>End-expiratory CO<sub>2</sub> concentration (etCO<sub>2</sub>)</p> <p>Range 0 to 100 mmHg</p>
<b>Displayed calculated values</b>	
Compliance (C)	Range 0 to 650 mL/mbar (or mL/cmH <sub>2</sub> O)
Resistance (R)	Range 0 to 1,000 mbar/ (L/s) (or cmH <sub>2</sub> O / (L/s))
Leakage minute volume (MV <sub>leak</sub> )	Range 0 to 99 L/min BTPS
Rapid Shallow Breathing (RSB)	Range 0 to 9,999 (/min/L)
Negative Inspiratory Force (NIF)	Range -80 mbar to 0 mbar (or hPa or cmH <sub>2</sub> O)
Occlusion pressure P0.1	Range 0 to -25 mbar (or hPa or cmH <sub>2</sub> O)
Curve displays	<p>Airway pressure Paw (t) -30 to 100 mbar (or hPa or cmH<sub>2</sub>O)</p> <p>Flow (t) -180 to 180 L/min</p> <p>Volume V (t) 2 to 3,000 mL</p> <p>Exp. CO<sub>2</sub> concentration (etCO<sub>2</sub>) 0 to 100 mmHg</p>
<b>Alarms / Monitoring</b>	
Expiratory minute volume (MVe)	High / Low
Airway pressure (Paw)	High / Low
Insp. O <sub>2</sub> concentration (FiO <sub>2</sub> )	High / Low
End-expiratory CO concentration (etCO <sub>2</sub> )	High / Low
Tachypnoea monitoring (RR)	High
Volume monitoring (VT)	High / Low
Apnea alarm time (T <sub>apn</sub> )	5 to 60 seconds
Disconnect alarm delay time (T <sub>disconnect</sub> )	0 to 60 seconds
<b>Performance data</b>	
Control principle	time-cycled, volume-constant, pressure-controlled
Intermittent PEEP duration	1 to 20 expiratory cycles
Medicament nebulisation	for 5, 10, 15, 30 minutes
Inspiratory flow (BTPS)	max. 180 L/min
Base flow, adults	2 L/min
Base flow, pediatric patients	3 L/min
Base flow, neonates	6 L/min
Safety valve	Opens if medical compressed air supply fails (supply gas flow is not sufficient to provide the inspiratory flow required), enables spontaneous breathing with ambient air.

## Technical Data

### Endotracheal suction

Disconnection detection	automatic
Reconnection detection	automatic
Initial Oxygen enrichment	max. 3 minutes
Active suction phase	max. 2 minutes
Final oxygen enrichment	max. 2 minutes
Factor for pediatric patients and neonates	1 to 2
Supply system for spontaneous breathing and P <sub>supp</sub>	adaptive CPAP system with high initial flow

### Operating data

#### Mains power supply

Mains power connection	100 V to 240 V, 50/60 Hz
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#### Current consumption

at 230 V	max. 1.4 A
at 100 V	max. 3.0 A
Inrush current	approx. 8 to 24 A peak approx. 6 to 17 A quasi RMS

#### Power consumption

maximum	300 W
during ventilation, without charging the battery	approx. 100 W ventilation unit with Medical Cockpit approx. 180 W with GS500

Digital machine output	Digital output and input via an RS232 C interface Dräger MEDIBUS and MEDIBUS.X
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#### Gas supply

O <sub>2</sub> gauge pressure	2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)
Air gauge pressure	2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)

#### Physical Specifications

	Dimensions (W x H x D)
Ventilation unit with lateral standard rail (without Infinity® C300)	361 mm x 320 mm x 410 mm (14.3 in x 12.6 in x 16.1 in)
Ventilation unit and Infinity® C300 on the trolley, carrier frame without bar	577 mm x 1,405 mm x 687 mm (22.7 in x 55.3 in x 27.1 in)
Ventilation unit and Infinity® C300 on the trolley, carrier frame with bar	577 mm x 1,405 mm x 700 mm (22.7 in x 55.3 in x 27.6 in)

#### Weight

Evita® V300 and Infinity® C300	approx. 24 kg (52.9 lbs)
Evita® V300 and Infinity® C300 on trolley	approx. 58 kg (127.9 lbs)
PS500	approx. 27 kg (59.5 lbs)
GS500	approx. 10.5 kg (23 lbs)
Mounting: Supporting frame	1,65 kg (3.64 lbs)
Adapter for 38 mm pole	2,35 kg (5.18 lbs)

#### Infinity® C300

Diagonal screen size Infinity® C300	15,4" TFT color touch screen
Input / Output ports (at Infinity® C300)	<ul style="list-style-type: none"> <li>– 2 external RS232 (9-pin) connectors</li> <li>– 3 USB ports for data collection</li> <li>– 1 DVI for digital video output</li> <li>– 1 LAN port</li> <li>– RJ 45 Ethernet connectors (for service purpose only)</li> </ul>

## Technical Data

<sup>1</sup> BIPAP, trademark used under license. ATC®, trademarked by Dräger. AutoFlow®, trademarked by Dräger.

BTPS – Body Temperature Pressure Saturated. Measured values relating to the conditions of the patient lung (98.6 °F), steam-saturated gas, ambient pressure.

1 mbar = 100 Pa

Some functionalities are available as an option.

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