

# Evita<sup>®</sup> Infinity<sup>®</sup> V500

Advanced and comprehensive ventilation therapy



MT-09/16-2008

## TECHNICAL DATA

Patient type	Adult, pediatric, and neonatal patients
<b>Ventilation settings</b>	
Ventilation mode	VC-CMV VC-SIMV VC-AC VC-MMV PC-CMV PC-SIMV-SIMV+ PC-AC PC-APRV PC-PSV SPN-CPAP/PS SPN-CPAP/VS SPN-CPAP SPN-PPS*
Enhancements	<ul style="list-style-type: none"> <li>- AutoFlow<sup>™</sup> / Volume Guarantee – Automatic adaptation of inspiratory flow in volume controlled modes (VC-AC)</li> <li>- Variable Pressure Support</li> <li>- Smart Pulmonary View</li> <li>- ATC<sup>™</sup> – Automatic Tube Compensation<sup>™</sup></li> <li>- NIV – Mask Ventilation</li> <li>- SmartCare<sup>®</sup>/PS 2.0 – Automated clinical protocol in SPN-CPAP/PS</li> <li>- Low Flow PV Loop</li> <li>- O<sub>2</sub>-Therapy</li> </ul>



MT-6/07S-2008

Dräger Evita Infinity<sup>®</sup> V500

	Adult	Pediatric	Neonatal
Ventilation frequency (RR)	0.5 to 98/min	0.5 to 150/min	0.5 to 150/min
Inspiration Time (Ti)	0.11 to 10 s	0.1 to 10 s	0.1 to 10 s
Tidal Volume	0.1 to 3.0 L under BTPS	0.02 to 0.3 L under BTPS	0.002 to 0.1 L under BTPS
Inspiratory Flow (Flow)	2 to 120 L/min	2 to 30 L/min	2 to 30 L/min
<b>Proportional Pressure Support PPS* (optional)</b>			
Flow Assist (mbar/L/s or hPa/L/s or cmH <sub>2</sub> O/L/s)	0 to 30 mbar/L/s	0 to 100 mbar/L/s	0 to 300 mbar/L/s
Volume Assist (mbar/L or ML/hPa or cm H <sub>2</sub> O/L)	0 to 100 mbar/L	0 to 1000 mL/mbar	0 to 4000 Mbar/L
Volume Assist corresponds to compliance compensation			
<b>Automatic Tube Compensation ATC - Inside tube diameter</b>			
Endotracheal Tube ET	5 to 12 mm (0.2 to 0.47 inch)	2 to 8 mm (0.08 to 0.31 inch)	2 to 5 mm (0.08 to 0.2 inch)
Tracheostomy Tube	5 to 12 mm (0.2 to 0.47 inch)	2.5 to 8 mm (0.08 to 0.2 inch)	2.5 to 5 mm (0.1 to 0.2 inch)
Degree of compensation 0 to 100%			
<b>Performance Data</b>			
Maximum Inspiratory Flow	180 L/min	60 L/min	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 (Δ <sub>int</sub> PEEP)	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)
Rise time for pressure assist (Slope)	0 to 2 s
O <sub>2</sub> concentration (FiO <sub>2</sub> )	21 to 100 Vol. %
Trigger sensitivity (Flow trigger)	0.2 to 15 L/min
PC-APRV (optional)	<ul style="list-style-type: none"> <li>- Inspiratory time (T<sub>high</sub>) 0.1 to 30 s</li> <li>- Expiratory time (T<sub>low</sub>) 0.1 to 30 s</li> <li>- Inspiratory pressure (P<sub>high</sub>) 1 to 95 mbar (or hPa or cmH<sub>2</sub>O)</li> <li>- Expiratory pressure (P<sub>low</sub>) 0 to 50 mbar (or hPa or cmH<sub>2</sub>O)</li> </ul>
Termination Criteria (expiratory flow) (Exp. term.)	1 to 80 %
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%

**Measured values displayed**

Airway pressure measurement	Plateau pressure P <sub>plat</sub> Positive end-exp. pressure PEEP Peak inspiratory pressure PIP Mean airway pressure P <sub>mean</sub> Minimum airway pressure P <sub>min</sub> Range -60 to 120 mbar (or hPa or cmH <sub>2</sub> O)
Flow Measurement	
Minute volume measurement	Total minute volume MV Mandatory minute volume MV <sub>mand</sub> Spontaneous minute volume MV <sub>spon</sub> Range 0 to 99 L/min BTPS
Tidal volume measurement	Tidal volume VT Range 0 to 5500 mL BTPS
Frequency measurement	Breathing frequency RR Spontaneous breathing frequency RR <sub>spon</sub> Range 0/min to 300/min
O <sub>2</sub> measurement (inspiratory side)	Inspiratory O <sub>2</sub> concentration FiO <sub>2</sub> Range 18 to 100 Vol%
CO <sub>2</sub> measurement in main flow (adult and pediatric patients only)	End-expiratory CO <sub>2</sub> concentration etCO <sub>2</sub> Range 0 to 100 mmHg

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**Computed value displays**


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Compliance C	Range 0 to 650 mL/mbar (or mL/cmH <sub>2</sub> O)
Resistance R	Range 0 to 1000 mbar / (L/s) (or cmH <sub>2</sub> O / (L/s))
Leakage minute volume MVleak	Range 0 to 99 L/min
Rapid Shallow Breathing (RSB)	Range 0 to 9999 (/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 -60 to 130 mbar (or hPa or cmH <sub>2</sub> O)
Curve displays	Airway pressure Paw (t) -30 to 100 mbar (or hPa or cmH <sub>2</sub> O) Flow (t) -180 to 180 L/min Volume V (t) 2 to 3000 mL Exp. CO <sub>2</sub> concentration etCO <sub>2</sub> 0 to 100 mmHg

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**Alarms / Monitoring**


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Expiratory minute volume	High / Low
Airway pressure	High / Low
Insp, O <sub>2</sub> concentration	High / Low
End-expiratory CO <sub>2</sub> concentration	High / Low
Tachypnea monitoring	High
Volume monitoring	High / Low
Apnea alarm time	5 to 60 seconds

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**Performance data**


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Control principle	time-cycled, volume-constant, pressure-controlled
Intermittent PEEP duration	1 to 20 expiratory cycles
Medication nebulization	for 5, 10, 15, 30 minutes
Bronchial suction	
Disconnection detection	Automatic
Reconnection detection	Automatic
Oxygen enrichment	Maximum of 3 minutes adult patients: 100 vol.% pediatric and neonatal patients: Delivered FiO <sub>2</sub> concentration is multiplied by a configured factor between 100% and 200% of set FiO <sub>2</sub> Dead space volume
with CO <sub>2</sub> cuvette	<15 mL
without CO <sub>2</sub> cuvette	<11 mL

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**Operating data**


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Mains supply	
Mains power connection	100 V to 240 V, 50/60 Hz
Current consumption	at 230 V max. 1.1 A Ventilation Unit with Medical Cockpit at 230 V max. 1.6 A with GS500 at 100 V max. 2.5 A Ventilation Unit with Medical Cockpit at 100 V max. 3.7 A with GS500
Power consumption	max. 2.5 A Ventilation Unit with Medical Cockpit max. 3.7 A with GS500
in operation, without loading of internal battery	approx. 100 W Ventilation Unit with Medical Cockpit approx. 180 W with GS500
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)

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**Physical Specifications**


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**Dimensions (W x H x D)**

Evita Infinity® V500	360 mm x 347 mm x 424 mm (14.17 inch x 13.66 inch x 16.69 inch)
Infinity® C500	414 mm x 284 mm x 95 mm (16.29 inch x 11.18 inch x 3.74 inch)
Evita Infinity® V500 and Infinity® C500	420 mm x 685 mm x 410 mm (16.5 inch x 27.0 inch x 16.1 inch)
Evita Infinity® V500 and Infinity® C500 on trolley	577 mm x 1400 mm x 677 mm (22.7 inch x 55.1 inch x 26.7 inch)
GS500 (mounting on trolley only)	291 mm x 218 mm x 381 mm (11.46 inch x 8.58 inch x 15 inch)

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**Weight**

Evita Infinity® V500	approx. 16 kg (35.27 lbs)
Infinity® C500	approx. 7 kg (15.43 lbs)
GS500	approx. 10 kg (22 lbs)
Evita Infinity® V500 and Infinity® C500	25 kg (55.1 lbs)
Evita Infinity® V500 and Infinity® C500 on trolley	59 kg (130 lbs)
Mounting: Supporting frame	1,65 kg (3.64 lbs)
Adapter for 38 mm pole	2,35 kg (5.18 lbs)

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Diagonal screen size C500 17" TFT color touch screen

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Input / Output ports (at Infinity® C500)	<ul style="list-style-type: none"> <li>- 3 external RS232 (9-pin) connectors</li> <li>- 4 USB ports (on the back panel)</li> <li>- 2 USB ports (one on each side panel)</li> <li>- 1 DVI for an independently configurable display with touch screen control (for future use)</li> <li>- 2 DVI (not enabled)</li> <li>- 2 RJ 45 Ethernet connectors</li> </ul>
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1) ATC™, trademarked by Dräger. AutoFlow™, trademarked by Dräger.

**CORPORATE HEADQUARTERS**

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