

Dräger Evita® Infinity® V500 ventilator ICU Ventilation and Respiratory Monitoring

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



Benefits

Tools for your ventilation therapy I

- Lung diagnostic tools like the Low Flow maneuver (inflection points)
 - Breath by breath recruitment trends (e.g. PEEP, EIP, VT, Cdyn)
 - Recruitment tools (e.g. Inspiration Hold, QuickSet, PressureLink)
 - PC-APRV with AutoRelease
 - Volumetric CO₂-Monitoring (VCO₂, VTCO₂, Slope Phase 3, Vds/VTe)
 - Weaning parameter (e.g. RSBi, P0.1, NIF)
 - Automatic weaning with SmartCare/PS®
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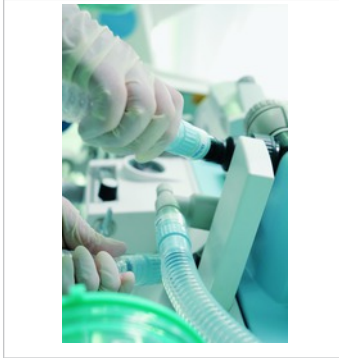
Tools for your ventilation therapy II

- Variable Pressure Support, Proportional Pressure Support, Automatic Tube Compensation
 - Graphical representation of airway resistance and lung compliance with Smart Pulmonary View
 - "Room-to-breathe" concept (AutoFlow®, BIPAP, VG)
 - Applicable for neonatal ventilation (smallest tidal volume: 2 ml)
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Functions to support your workflow

- Non-invasive ventilation in all modes and all patient categories
- O₂-Therapy allows flow constant oxygen application
- Flexible screen configuration: 6 different views for each patient related to the individual therapy
- Full record of all patient data, alarms and trends
- Data export via USB interface
- Context-sensitive help function and online Instruction For Use for ventilation modes, alarms and device functions
- RFID functionality e.g. to monitor exchange intervals and to transport ventilation settings

Accessories



D-14586-2009

Infinity® ID-Accessories

Each and every Infinity® ID-accessory has been designed to offer additional functionality, which can help you simplify routine tasks, streamline workflow and increase safety levels.

Technical Data

Patient type	Adults, pediatrics, neonates
Ventilation settings	
Ventilation mode	VC-CMV VC-SIMV VC-AC VC-MMV PC-CMV PC-BIPAP ¹⁾ / SIMV+ PC-SIMV PC-AC PC-APRV PC-PSV SPN-CPAP/PS SPN-CPAP/VS SPN-CPAP SPN-PPS ²⁾
Enhancements	<ul style="list-style-type: none"> - AutoFlow™ / Volume Guarantee – Automatic adaptation of inspiratory flow in volume controlled modes (VC-AC) - Variable Pressure Support - Smart Pulmonary View - ATC™ – Automatic Tube Compensation™ - NIV – Mask Ventilation - SmartCare®/PS 2.0 – Automated clinical protocol in SPN-CPAP/PS - Low Flow PV Loop - O₂-Therapy
Ventilation frequency (RR)	0.5 to 98/min (adults) 0.5 to 150/min (pediatric patients, neonates)
Inspiration time (Ti)	0.11 to 10 s (adults) 0.1 to 10 s (pediatric patients, neonates)
Tidal volume (VT)	0.1 to 3.0 L (adults) under BTPS 0.02 to 0.3 L (pediatric patients) under BTPS 0.002 to 0.1 L (neonates) under BTPS
Inspiratory flow (Flow)	2 to 120 L/min (adults) 2 to 30 L/min (pediatric patients, neonates)
Inspiratory pressure (P _{insp})	1 to 95 mbar (or hPa or cmH ₂ O)
Inspiratory pressure limit (P _{max})	2 to 100 mbar (or hPa or cmH ₂ O)
PEEP / intermittent PEEP (Δ _{int} PEEP)	0 to 50 mbar (or hPa or cmH ₂ O)
Pressure assist (P _{supp})	0 to 95 mbar (or hPa or cmH ₂ O)
Rise time for pressure assist (Slope)	0 to 2 s
O ₂ concentration (FiO ₂)	21 to 100 Vol.%
Trigger sensitivity (Flow trigger)	0.2 to 15 L/min
PC-APRV (optional)	<ul style="list-style-type: none"> - Inspiratory time (Thigh) 0.1 to 30 s - Expiratory time (Tlow) 0.1 to 30 s - Inspiratory pressure (Phigh) 1 to 95 mbar (or hPa or cmH₂O) - Expiratory pressure (Plow) 0 to 50 mbar (or hPa or cmH₂O)
Termination Criteria (expiratory flow) (Exp. term.)	1 to 80 %
Proportional Pressure Support	Flow Assist
PPS ²⁾ (optional)	<ul style="list-style-type: none"> - Adults 0 to 30 mbar/L/s (or hPa/L/s or cmH₂O/L/s) - Pediatric patients 0 to 100 mbar/L/s

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	(or hPa/L/s or cmH ₂ O/L/s)
	– Neonates 0 to 300 mbar/L/s (or hPa/L/s or cmH ₂ O/L/s)
	Volume Assist
	– Adults 0 to 100 mbar/L (or mL/hPa or cmH ₂ O/L) corresponds to compliance compensation: 10000 to 10 mL/mbar (or mL/hPa or mL/cmH ₂ O)
	– Pediatric patients 0 to 1000 mbar/L (or mL/hPa or cmH ₂ O/L) corresponds to compliance compensation: 1000 to 1 mL/mbar (or mL/hPa or mL/cmH ₂ O)
	– Neonates 0 to 4000 mbar/L (or hPa/L or cmH ₂ O/L) corresponds to compliance compensation: 10000 to 0.5 mL/mbar (or mL/hPa or mL/cmH ₂ O)
Automatic Tube Compensation ATC™	Inside tube diameter tube Ø
	– Endotracheal tube ET Adults 5 to 12 mm (0.2 to 0.47 inch) Pediatric patients 2 to 8 mm (0.08 to 0.31 inch)
	– Neonates 2 to 5 mm (0.08 to 0.2 inch)
	– Tracheostoma tube trach. Adults 5 to 12 mm (0.2 to 0.47 inch) Pediatric patients 2.5 to 8 mm (0.1 to 0.31 inch)
	– Neonates 2.5 to 5 mm (0.1 to 0.2 inch) Degree of compensation 0 to 100 %
O ₂ Therapy	Continuous Flow 2 to 50 L/min O ₂ concentration FiO ₂ 21 to 100 Vol%
Measured values displayed	
Airway pressure measurement	Plateau pressure P _{plat} Pos. end-exp. pressure PEEP Peak inspiratory pressure PIP Mean airway pressure P _{mean} Min. airway pressure P _{min} Range –60 to 120 mbar (or hPa or cmH ₂ O)
Flow Measurement	
Minute volume measurement	Total minute volume MV Mandatory minute volume MV _{mand} Spontaneous minute volume MV _{spon} 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 _{spon} Range 0/min to 300/min
O ₂ measurement (inspiratory side)	Inspiratory O ₂ concentration FiO ₂ Range 18 to 100 Vol%
CO ₂ measurement in main flow (adults and pediatric patients only)	End-expiratory CO ₂ concentration etCO ₂ Range 0 to 100 mmHg
Computed value displays	
Compliance C	Range 0 to 650 mL/mbar (or mL/cmH ₂ O)
Resistance R	Range 0 to 1000 mbar / (L/s) (or cmH ₂ O / (L/s))
Leakage minute volume MV _{leak}	Range 0 to 99 L/min

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Rapid Shallow Breathing (RSB)	Range 0 to 9999 (/min/L)
Negative Inspiratory Force (NIF)	Range –80 mbar to 0 mbar (or hPa or cmH ₂ O)
Occlusion pressure P0.1	Range –60 to 130 mbar (or hPa or cmH ₂ O)
Curve displays	Airway pressure Paw (t) –30 to 100 mbar (or hPa or cmH ₂ O) Flow (t) –180 to 180 L/min Volume V (t) 2 to 3000 mL Exp. CO ₂ concentration etCO ₂ 0 to 100 mmHg

Alarms / Monitoring

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

Performance data

Control principle	time-cycled, volume-constant, pressure-controlled
Intermittent PEEP duration	1 to 20 expiratory cycles
Medicament nebulisation	for 5, 10, 15, 30 minutes
Bronchial suction	
Disconnection detection	automatic
Reconnection detection	automatic
Oxygen enrichment	max. 3 minutes, adults 100 vol.%, for pediatric patients and neonates factor 1 to 2 from actual FiO ₂ concentration
Active suction phase	max. 2 minutes
Final oxygen enrichment	max. 2 minutes, adults 100 vol.%, for pediatric patients and neonates factor 1 to 2 from actual FiO ₂ concentration
Supply system for spontaneous breathing and P _{supp}	adaptive CPAP system with high initial flow
Inspiratory flow	max 180 L/min
Dead space volume	
with CO ₂ cuvette	<15 mL
without CO ₂ cuvette	<11 mL

Operating data

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 ₂ gauge pressure	2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi)

Technical Data

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)

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)

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)
Diagonal screen size C500	17" TFT color touch screen
Input / Output ports (at Infinity® C500)	<ul style="list-style-type: none"> - 3 external RS232 (9-pin) connectors - 4 USB ports (on the back panel) - 2 USB ports (one on each side panel) - 1 DVI for an independently configurable display with touch screen control (for future use) - 2 DVI (not enabled) - 2 RJ 45 Ethernet connectors

¹⁾ BIPAP, trademark used under license. ATC™, trademarked by Dräger. AutoFlow™, trademarked by Dräger.

Notes

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As of August 2015

Dräger Medical GmbH changes
to Drägerwerk AG & Co. KGaA

Locate your Regional
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www.draeger.com/contact



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