

Evita V300

More options, easier decisions.



D-63374-2012

TECHNICAL DATA

Patient type	Adults, pediatrics, neonates (optional)
Ventilation settings	
Ventilation mode	VC-CMV VC-SIMV VC-AC VC-MMV (optional) PC-CMV PC-BIPAP ¹⁾ / SIMV+ PC-SIMV PC-AC PC-APRV (optional) PC-PSV (optional) SPN-CPAP/PS SPN-CPAP/VS (optional) SPN-CPAP (optional) SPN-PPS* (optional)
Enhancements	<ul style="list-style-type: none"> - AutoFlow™ / Volume Guarantee (optional) – Automatic adaptation of inspiratory flow in volume controlled modes (VC-AC) - Smart Pulmonary View (optional) - ATC™ – Automatic Tube Compensation™ (optional) - NIV – Mask Ventilation (optional) - CO₂ - CO₂ monitoring (optional) - Monitoring Plus - additional Trends and Loops (optional) - SmartCare®/PS 2.0 (optional) – Automated clinical protocol in SPN-CPAP/PS - O₂-Therapy (optional)
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)



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Dräger Evita V300

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
Automatic Tube Compensation (ATC™)	Inside tube diameter (tube Ø) <ul style="list-style-type: none"> - 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) 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	MVe, MV _i , MV _{emand} , MV _{espon} , MV Range 0 to 99 L/min BTPS
Tidal volume measurement	VT, VT _{imand} , VT _{emand} , VT _{ispon} , V _{trap} 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) (optional)	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 BTPS
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 P _{0.1}	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 (optional)

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 (optional)
Bronchial suction	
Disconnection detection	automatic
Reconnection detection	automatic
Oxygen enrichment	max. 3 minutes
Active suction phase	max. 2 minutes
Final oxygen enrichment	max. 2 minutes
Oxygen enrichment for suction maneuver	
Factor for pediatric patients and neonates	1 to 2
Supply system for spontaneous breathing and P _{supp}	adaptive CPAP system with high initial flow
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.

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 max. 0.8 A with PS500 max. 1.4 A with GS500 and PS500 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 max. 1.8 A with PS500 max. 3.0 A with GS500 and PS500
in operation, without loading of internal 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
Gas supply	
O ₂ 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)	
Evita V300 and Infinity C300	390 mm x 680 mm x 410 mm (15.4 in x 26.8 in x 16.1 in)
Evita V300 and Infinity C300 on trolley	577 mm x 1400 mm x 677 mm (22.7 in x 55.1 in x 26.7 in)
GS500 (mounting on trolley only) / PS500 (mounting on trolley only)	291 mm x 218 mm x 381 mm (11.46 inch x 8.58 inch x 15 inch)
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)
Diagonal screen size Infinity C300	15,4" TFT color touch screen
Input / Output ports (at Infinity C300)	<ul style="list-style-type: none"> - 2 external RS232 (9-pin) connectors - 2 USB ports (on the back panel) - 1 USB port (on the side panel) - 1 DVI (not enabled) - 1 LAN port

¹⁾ 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

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