

Dräger Evita XL

The new generation of excellence in Dräger ventilation



TECHNICAL DATA

EVITA XL

Patient type	<ul style="list-style-type: none"> - Adults, children, infants (body weight of at least 3 kg/6.6 lbs) - Premature infants with NeoFlow option
Ventilation settings	
Ventilation mode	<ul style="list-style-type: none"> - IPPV, IPPV_{Assist} / CMV, CMV_{Assist} - SIMV, SIMV_{Psupp} - MMV, MMV_{Psupp} - BIPAP¹⁾, BIPAP¹⁾_{ASB}, BIPAP¹⁾_{Assist} / PCV+, PCV+_{Psupp}, PCV+_{Assist} - APRV - CPAP, CPAP_{ASB} / CPAP/_{Psupp}, CPAP/_{Psupp} - ILV - PPS (optional)
Enhancements	<ul style="list-style-type: none"> - AutoFlow™ – Automatic adaptation of inspiratory flow in volume controlled modes - ATC™ – Automatic Tube Compensation™ - NIV – Mask Ventilation (optional) - SmartCare®/PS– Automated clinical protocol in CPAP/ASB / CPAP/_{Psupp} (optional) - Lung Protection Package – Recruitment manoeuvre and Low Flow manoeuvre (optional)
Ventilation frequency (f)	0 to 100/min, 0 to 150/min (Neonatal)
Inspiration time (T _{insp})	0.1 to 10 s
Tidal volume (V _T) (BTPS*)	<ul style="list-style-type: none"> - 0.1 to 2.0 L (Adult) / 0.02 to 0.3 L (Pediatric) - 0.003 to 0.1 L (Neonatal)
Inspiratory flow	<ul style="list-style-type: none"> - 6 to 120 L/min (Adult) - 6 to 30 L/min (Pediatric and Neonatal)
Inspiratory pressure	0 to 95 mbar/cmH ₂ O
PEEP / intermittent PEEP	0 to 50 mbar/cmH ₂ O
Pressure assist ASB/ _{Psupp}	0 to 95 mbar/cmH ₂ O
Rise time for inspiratory pressure	0 to 2 s
O ₂ concentration	21 to 100 Vol.%
Multi-sense Trigger Criteria	Internal automatic pressure trigger, Flow, Volume (Flow adjustable 0.3 to 15 L/min)
Measured values displayed	
Airway pressure	Peak pressure, plateau pressure, mean pressure, PEEP, min. pressure (-45 to 110 mbar/cmH ₂ O)
Minute volume (MV), (BTPS*)	MV, MV _{spont} (0 to 120 L/min, MV _{leak} (0 to 99 L/min)
Tidal volume (V _T), (BTPS*)	V _{Tasb} 0 - 10, respectively 0 - 3999 ml



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Breathing frequency (f)	f _{total} , f _{spon} , f _{mand} . (0 to 300 bpm)
O ₂ concentration (FiO ₂)	Inspired O ₂ concentration (15 to 100 Vol.%)
Lung mechanics	– Resistance (0 to 600 mbar/cmH ₂ O L/s) – Compliance (0 to 300 mL/mbar/cmH ₂ O)
Breathing gas temperature	18 °C to 51 °C
Capnography (etCO ₂) (optional)	– 0 to 100 mmHg
CO ₂ production (VCO ₂)	– 0 to 999 mL/min, STPD*
Serial dead space V _{ds}	– 0 to 999 mL, BTPS*
Dead space ventilation (V _{ds} /VT)	– 0 to 99%
Weaning parameters	– RSB (0 to 9999 (min x L)) / NIF (-45 to 0 mbar/cmH ₂ O)
Alarms / Monitoring	
Airway pressure	High / Low
Expired minute volume	High / Low
Tidal volume	High
Apnea alarm Time	5 to 60 s
Spontaneous breath frequency	High
Inspired O ₂ concentration	High / Low
Breathing gas temperature	High
SpO ₂ pulse (optional)	High / Low
etCO ₂ (optional)	High / Low
Performance data	
Valve response time T _{0...90}	≤ 5 ms
Control principle	Time cycled, volume constant, pressure-controlled
Safety relief valve	100 mbar/cmH ₂ O
Leakage and hose system compensation compliance	automatic
Max. flow for pressure support and spontaneous breathing	180 L/min
Outlet for pneumatic nebulizer	
Operating data	
Mains power connection	100 to 240 V, 50/60 Hz, 10 to 30 V DC
Power consumption	Approx. 125 W
Gas supply operating pressure	O ₂ , air: 2.7 to 6 bar / 39 to 87 PSI
Physical specifications	
Dimensions ventilator (W x H x D)	530 x 315 x 450 mm / 20.9 x 12.4 x 17.7 inches (without trolley)
Diagonal screen size	15" TFT color touch screen
Weight basic unit	Approx. 50 kg / 64 lbs
Machine outputs:	
Digital output	Output and reception via an RS 232 C interface
Digital output	Output for independent lung ventilation (ILV)
Digital output (optional)	For output and reception via two RS 232 C interfaces
Analog output (optional)	For analog output of two measured values

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 patients lung, body temperature 37 °C, steam-saturated gas, ambient pressure. STPD* (Standard Temperature, Pressure, Dry). Measured values based on normal physical conditions: 0 °C, 1013 hPa, dry.

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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).