

Dräger Evita XL Neo

Excellence in Dräger ventilation –
dedicated to neonatal care



TECHNICAL DATA

EVITA XL NEO

Patient type	<ul style="list-style-type: none"> – For children, neonates, and premature infants with a minimum body weight of 0.5 kg (1.1 lbs). – For adults with the adult 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) – CO₂ – CO₂ measurement (optional)
Ventilation frequency (f)	10 to 150/min (Neonatal)
Inspiration time (T _{insp})	0.1 to 10 s
Tidal volume (VT) (BTPS*)	<ul style="list-style-type: none"> – 3 to 100 ml, BTPS* (Neonatal) – 0.02 to 0.3 L, BTPS* (Pediatric)
Inspiratory flow	– 6 to 30 L/min (Pediatric)
Basic flow	6L/min (with demand system, pressure regulated, time-controlled)
Inspiratory pressure	0 to 95 mbar (or hPa, or cmH ₂ O)
PEEP / intermittent PEEP	0 to 50 mbar (or hPa, or cmH ₂ O)
Pressure assist ASB/ _{Psupp}	0 to 95 mbar (or hPa, or 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 Adjustable: flow trigger sensitivity 0.3 to 15 L/min
Measured values displayed	
Airway pressure	Internal automatic: pressure, volume 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 (VT), (BTPS*)	V _{tsb} 0 - 10, respectively 0 - 3999 ml



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Inspiratory O ₂ concentration FiO ₂ , Range	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, Range	18 °C to 51 °C (64.5 to 123.8 °F)
End-expiratory CO ₂ concentration etCO ₂ (optional), Range	– 0 to 100 mmHg
CO ₂ production (VCO ₂) (optional), Range	– 0 to 999 mL/min, STPD*
Serial dead space V _{ds} (optional), Range	– 0 to 999 mL, BTSP*
Dead space ventilation (V _{ds} /V _T) (optional), Range	– 0 to 99%
Weaning parameters	– RSBi (0 to 9999 (min × 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
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	Yes
Operating data	
Mains power connection	100 to 240 V, 50/60 Hz, 10 to 30 V DC
Power input	typically approx. 125 W
Gas supply operating pressure	O ₂ , air: 2.7 to 6 bar / 39 to 87 PSI
Physical specifications	
Dimensions ventilator (W × H × D)	530 × 315 × 450 mm / 20.9 × 12.4 × 17.7 inches (without trolley)
Diagonal screen size	15" TFT color touch screen
Weight basic unit (incl. self)	Approx. 29 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. BTSP* (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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