Dräger Evita XL

The new generation of excellence in Dräger ventilation

TECHNICAL DATA	EVITA XL
Patient type	– Adults, children, infants (body weight of at least 3 kg/6.6 lbs) – Premature infants with NeoFlow option
Ventilation settings	
Ventilation mode	– IPPV, IPPV$_{Assist}$/CMV, CMV$_{Assist}$ – SIMV, SIMV$_{Psupp}$ – MMV, MMV$_{Psupp}$ – BIPAP[1)], BIPAP[1)]$_{ASB}$, BIPAP[1)]$_{Assist}$ / PCV+, PCV+$_{Psupp}$, PCV+$_{Assist}$ – APRV – CPAP, CPAP$_{ASB}$ / CPAP/$_{Psupp}$, CPAP/$_{Psupp}$ – ILV – PPS (optional)
Enhancements	– 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 maneuvre and Low Flow maneuvre (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*)	– 0.1 to 2.0 L (Adult) / 0.02 to 0.3 L (Pediatric) – 0.003 to 0.1 L (Neonatal)
Inspiratory flow	– 6 to 120 L/min (Adult) – 6 to 30 L/min (Pediatric and Neonatal)
Inspiratory pressure	0 to 95 mbar/cmH_2O
PEEP / intermittent PEEP	0 to 50 mbar/cmH_2O
Pressure assist ASB/Psupp	0 to 95 mbar/cmH_2O
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_2O)
Minute volume (MV), (BTPS*)	MV, MVspont (0 to 120 L/min, MVleak (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_2O L/s)
	– Compliance (0 to 300 mL/mbar/cmH_2O)
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 Vds	– 0 to 999 mL, BTPS*
Dead space ventilation (Vds/VT)	– 0 to 99%
Weaning parameters	– RSB (0 to 9999 (min x L)) / NIF (-45 to 0 mbar/cmH_2O)

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 T0...90	≤ 5 ms
Control principle	Time cycled, volume constant, pressure-controlled
Safety relief valve	100 mbar/cmH_2O
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.