

Evita 4 edition

Excellence performance and reliability.



TECHNICAL DATA

Patient type	<ul style="list-style-type: none"> – Adults and children (bodyweight 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_{ASB} (SIMV, SIMV/P_{supp}) – MMV, MMV_{ASB} (MMV, MMV/P_{supp}) – BIPAP⁽¹⁾, BIPAP⁽¹⁾_{ASB}, BIPAP⁽¹⁾_{Assist} (PCV+, PCV+/P_{supp}, PCV+_{Assist}) – APRV – CPAP, CPAP_{ASB} (CPAP, CPAP/P_{supp}) – ILV – PPS (optional)*
Enhancements	<ul style="list-style-type: none"> – AutoFlow – Automatic adaptation of inspiratory flow in volume controlled modes – ATC – Automatic Tube Compensation (optional) – NIV – Mask Ventilation (optional)
Ventilation frequency (f)	0 to 100 /min, 0 to 150 /min (Neonatal)
Inspiration time (T _{in})	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 80 mbar (cmH ₂ O)
PEEP / intermittent PEEP	0 to 35 mbar (cmH ₂ O)
Pressure assist (P _{ASB}) (P _{supp})	0 to 80 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 airway pressure, PEEP, min. pressure (0 to 99 mbar/cmH ₂ O)
Minute volume (M _V), (BTPS*)	MV, MV _{spont} , MV _{leak} (0 to 99 L/min)
Tidal volume (V _T), (BTPS*)	Inspired V _T , expired V _T , V _T PS (0 to 3999 mL)
Breathing frequency (f)	f _{total} , f _{spont} , f _{mand} (0 to 300/bpm)
O ₂ concentration (FiO ₂)	Inspired O ₂ concentration (15 to 100 Vol.%)



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Lung mechanics	– Resistance ((0.0 to 600 mbar/L/s) (cmH ₂ O/L/s)) – Compliance ((0.0 to 300 mL/mbar) (mL/cmH ₂ O))
Breathing gas temperature	18 ° to 51 °C
Waveforms	Airway pressure-time, flow-time, volume-time, ...
Trends (8 anyone configurable)	FiO ₂ , M _V , V _T , f, PEEP _i , R, C, etCO ₂ , ...
Loops	Paw-V, V-Flow, Flow-Paw, ...
Capnography (etCO ₂) (optional)	– 0 to 100 mmHg
CO ₂ production (VCO ₂) (optional)	– 0 to 999 mL/min, STPD*
Serial dead space V _{ds} (optional)	– 0 to 999 mL, BTPS*
Dead space ventilation (V _{ds} /V _T) (optional)	– 0 to 99 %
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 (optional)	High
etCO ₂ (optional)	High / Low
Performance data	
Max. flow for pressure support and spontaneous breathing	180 L/min (adult), 60 L/min (pediatric)
Valve response time T0...90	≤ 5 ms
Control principle	Time cycled, volume constant, pressure-controlled
Leakage and hose system compensation	automatic
Outlet for pneumatic nebulizer	
Operating data	
Mains power connection	100 to 240 V, 50/60 Hz; 10 to 30 V DC (optional)
Power consumption	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 x H x D)	530 x 290 x 450 mm (20.9 x 11.4 x 17.7 in.) (without trolley)
Diagonal screen size	10.4" TFT LCD color touch screen
Weight basic unit	Approx. 27 kg (59.5 lbs.)
Machine outputs:	
Digital output	Output and reception via an RS 232 C interface
Digital output	Output for independant 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

* PPS is not available in the US.

¹⁾ 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