





Excellence throughout the ventilation process

EvitaXL is there





At the bedside and throughout the hospital Ventilated patients are among the most vulnerable in the hospital. Caring for them takes focus, creativity and dedication – from you and your equipment. The EvitaXL ventilator brings together

equipment. The EvitaXL ventilator brings together a wide range of performance capabilities and advanced features to support the treatment of virtually any patient, regardless of acuity or age.

At the patient bedside:

- Ease of use from the beginning startup modes and settings configured to your practice
- Large 15" touchscreen display with intuitive, graphical user interface
- Direct settings access from the main screen

Throughout the hospital:

- Enables standardization for improved staff efficiency, while reducing training and support costs
- Comprehensive data access capabilities to view changing patient situations remotely at anytime, via patient monitoring or hospital networks
- IT system connectivity to support automated patient charting and reduce documentation time
- Transportable to maintain a high level of ventilation therapy, even on the move



... at any point of the ventilation process

Prevent

Avoid Treat Wean



Minimize patient risk

EvitaXL offers advantages that help protect patients every time ventilation support is needed:

- Comprehensive NIV available in all modes, with intelligent monitoring and alarms adaptation - the use of NIV has been shown to reduce the need for intubation (1)
- Lung Protection Package (LPP)
 offers a low flow P/V maneuver
 to identify adequate PEEP and
 pressure settings for lung protective
 ventilation, special recruitment
 trends monitor the process
- Integrated CO₂ monitoring helps verify correct intubation and stability of metabolism



Easily tailor treatment

EvitaXL responds quickly to individual patient requirements and changing ventilation situations:

- Our open breathing system with AutoFlow® or BIPAP* allows spontaneous breathing in all ventilation modes
- A variety of workflow support functions – such as O₂ suction routine or automatic P0.1 measurement with trending – to make your clinical routine easier
- NeoFlow offers flow measurement at the Y-piece for fast response to patient triggering, leakage adaptation and precise volume delivery for neonates



Wean efficiently and automatically

EvitaXL supports getting patients off the ventilator, safely and quickly:

- SmartCare/PS automated weaning system provides continuous vigilance for opportunities to reduce the level of ventilator support
- By reducing the work of breathing attributable to the endotracheal or tracheostomy tube, automatic tube compensation (ATC™) supports the transition to independence from the ventilator
- Our open breathing system with Mandatory Minute Ventilation (MMV) ensures that the patient – from neonatal to adult – always receives the set minute volume, regardless of the spontaneous breathing level

"The most significant realization comes from the fact that the weaning process is continuous and does not necessarily rely on the availability or constant presence of the practitioner to be at the bedside throughout the weaning session."

^{*} Trademark used under licenses

⁽¹⁾ Ram FSF et al, The Cochrane Library 2005, Issue 4

Recover

Avoic

Noninvasive Ventilation

Invasive Ventilation





Support reliable recovery

EvitaXL goes beyond extubation to treat and monitor the patient:

- Availability from invasive and non-invasive ventilation to O₂ therapy in one device to support improved workflow and potentially reduce the risk of reintubation (2)
- Advanced leakage compensation provides adapted responsiveness and reliable tidal volume delivery even in the presence of high leakages, such as during NIV
- (2) Haddad, B.; Critical Care 2006, 10: 314



Address Ventilator Associated Pneumonia

Preventing Ventilator Associated Pneumonia (VAP) has been identified as one of 12 interventions that can save lives and reduce patient injuries, as part of Institute of Healthcare Improvement's "5 Million Lives" campaign. See more at: www.ihi.org

Naturally, one of the best ways to reduce the risk of VAP is to get patients off the ventilator as soon as possible. Weaning protocols have been shown to reduce the duration of mechanical ventilation[®]; but they can also be labor intensive. With the EvitaXL's SmartCare[®]/PS system the weaning protocol is automatically supported... so that you can achieve weaning protocol compliance more easily.

(3) E.Wesley Ely, New England Journal of Medicine (1996), Vol. 335:1864-9

Over 100 years of innovation in ventilation

"Cutting-edge technology convinced us to purchase the Dräger product; but the excellent customer service and support solidified the relationship."

Angela D. Hedgman, BS, RRT-NPS, Philadelphia, PA, December 1, 2006



Dräger is committed to providing Technology for Life®. We were there at the very beginning of modern ventilation, and we've been innovating ever since:

- 1907 Pulmotor emergency resuscitator
- 1947 "Iron Lung" long term breathing system
- 1959 Pressure Controlled Ventilation
- 1978 Oxylog transportable emergency ventilator
- 1989 BIPAP1) /PCV+ and APRV free breathing in PCV
- 1995 AutoFlow® free breathing in VCV
- **1997** ATC[™] automatic tube compensation
- 2000 Non-Invasive Ventilation (NIV) for ICU ventilators
- 2004 Disposable expiration valve
- 2005 SmartCare/PS® automated weaning protocol for pediatric patients

1) Trademark used under licenses

Our reputation for quality and reliability is built on legendary German engineering - but that is only part of Dräger's commitment to ongoing support:

- · Comprehensive on-line training for effective system utilization
- DrägerService® programs help maximize uptime and minimize lifetime operating costs
- Continuous development program provides a safe investment

Technical Data	EvitaXL
Patient type	Adults, children, infants (body weight of at least 3 kg)
Ventilation settings	Premature infants with NeoFlow option
Ventilation mode	 IPPV, IPPVAssist SIMV, SIMVASB MMV, MMVPsupp BIPAP*¹, BIPAP*¹ASB, BIPAP*¹Assist APRV CPAP, CPAPASB ILV PPS (opional)*²
Enhancements	 AutoFlow® – Automatic adaptation of inspiratory flow in volume controlled modes ATC^{TM*1} – Automatic Tube Compensation NIV – Mask Ventilation (optional) SmartCare/PS – Automated clinical protocol in CPAP/ASB (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 (Tinsp) Tidal volume Vt (BTPS*)	0.1 to 10 s • 0.1 to 2.0L (Adult)
, ,	0.02 to 0.3L (Pediatric)0.003 to 0.1L (Neonatal)
Inspiratory flow	6 to 120L/min (Adult)6 to 30L/min (Pediatric and Neonatal)
Inspiratory pressure	0 to 95 cmH ₂ O
PEEP / intermittent PEEP Pressure assist (ASB)	0 to 50 cmH₂O 0 to 95 cmH₂O
Rise time for inspiratory pressure	0 to 2 s
O ₂ concentration	21 to 100 Vol.%
Multi-sense Trigger Criteria Measured values displayed	Internal automatic pressure trigger, Flow, Volume (Flow adjustable 0.3 to 15 L/min)
Airway pressure	Peak pressure, plateau pressure, mean pressure, PEEP,
Minute volume (MV), (BTPS*)	min. pressure (-45 to 110 mbar) MV, MVspont (0 to 120 L/min, MVleak (0 to 99 L/min)
Tidal volume (Vt), (BTPS*)	Inspired Vt, expired Vt (0-3999ml), Vtasb (0 - 10 l)
Breathing frequency (f)	ftotal, fspon, fmand. (0 to 300 bpm)
O ₂ concentration (FiO ₂)	Inspired O ₂ concentration (15 to 100 Vol.%)
Lung mechanics	 Resistance (0 to 600 mbar L/s) Compliance (0 to 300 mL/cmH₂O)
Breathing gas temperature Capnography (etCO ₂) (optional) CO ₂ production (VCO ₂) Serial dead space Vds Dead space ventilation (Vds/Vt)	18 °C to 51 °C • 0 to 100 mmHg • 0 to 999 mL/min, STPD* • 0 to 999 mL, BTPS* • 0 to 99%
Weaning parameters	 RSB (0 to 9999 (min x L)) NIF (- 45 to 0 mbar)
Alarms / Monitoring	High / Law
Airway pressure Expired minute volume	High / Low High / Low
Tidal volume	High
Apnea alarm Time	5 to 60 s
Spontaneous breath frequency	High
Inspired O ₂ concentration Breathing gas temperature	High / Low High
SpO ₂ pulse (optional)	High / Low
etCO ₂ (optional)	High / Low
Performance data Valve response time To90	≤ 5 ms
Control principle	Time cycled, volume constant, pressure-controlled
Safety relief valve	100 mbar
Leakage and hose system	
compensation compliance Max. flow for pressure support	automatic
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
Physical Specifications	520 v 215 v 450 mm (viith and totallan)
Dimensions ventilator (W x H x D) Diagonal screen size	530 x 315 x 450 mm (without trolley) 15" TFT color touch screen
Weight basic unit	Approx. 29 kg (without trolley)
Machine outputs	
Digital output	Output and reception via an RS 232 C interface
Digital output Digital output (optional)	Output for independent lung ventilation (ILV) For output and reception via two RS 232 C interfaces
Analog output (optional)	For analog output of two measured values
*1 ATC™ used under license, 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) *2 PPS is not available in the USA	

Europe, Middle East, Africa, Latin America, Asia, Pacific:

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The quality management system at Dräger Medical AG & Co. KG is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).