**Dräger Evita XL**

The new generation of excellence in Dräger ventilation

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### TECHNICAL DATA

| Patient type | – Adults, children, infants (body weight of at least 3 kg/6.6 lbs)  
– Premature infants with NeoFlow option |
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<td>Ventilation settings</td>
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**Ventilation mode** | – IPPV, IPPV<sub>Assist</sub>/CMV, CMV<sub>Assist</sub>  
– SIMV, SIMV<sub>Psupp</sub>  
– MMV, MMV<sub>Psupp</sub>  
– B<sub>IPAP</sub>P<sub>1</sub>, B<sub>IPAP</sub>P<sub>1</sub>Assist<sub>ASB</sub>, B<sub>IPAP</sub>P<sub>1</sub>Assist<sub>PCV+</sub>, PCV<sub>+</sub>P<sub>Psupp</sub>, PCV<sub>+</sub>Assist  
– APRV  
– CPAP, CPAP<sub>ASB</sub> / CPAP<sub>Psupp</sub>, CPAP<sub>Psupp</sub>  
– ILV  
– PPS (optional) |
| **Enhancements** | – AutoFlow<sup>™</sup> – Automatic adaptation of inspiratory flow in volume controlled modes  
– ATC<sup>™</sup> – Automatic Tube Compensation<sup>™</sup>  
– NIV – Mask Ventilation (optional)  
– SmartCare<sup>®</sup>/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<sub>insp</sub>) | 0.1 to 10 s |
| Tidal volume (V<sub>T</sub>) (BTPS<sup>®</sup>) | – 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<sub>2</sub>O |
| PEEP / intermittent PEEP | 0 to 50 mbar/cmH<sub>2</sub>O |
| Pressure assist ASB/P<sub>Psupp</sub> | 0 to 95 mbar/cmH<sub>2</sub>O |
| Rise time for inspiratory pressure | 0 to 2 s |
| O<sub>2</sub> 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<sub>2</sub>O)  
Minute volume (MV), (BTPS<sup>®</sup>)  
– MV, MV<sub>spont</sub> (0 to 120 L/min, MV<sub>leak</sub> (0 to 99 L/min)  
Tidal volume (V<sub>T</sub>), (BTPS<sup>®</sup>)  
– VT<sub>asb</sub> 0 - 10, respectively 0 - 3999 ml |

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**Breathing frequency (f)** | \( f_{\text{total}}, f_{\text{spont}}, f_{\text{mand.}} \) (0 to 300 bpm)
---|---

**\( O_2 \) concentration (FI\( O_2 \))** | Inspired \( O_2 \) concentration (15 to 100 Vol.%)
---|---

**Lung mechanics** | ~ Resistance (0 to 600 mbar/cmH\( _2 \)O L/s)
---|---

**Breathing gas temperature** | 18 °C to 51 °C
---|---

**Capnography (et\( CO_2 \)) (optional)** | ~ 0 to 100 mmHg
---|---

**\( CO_2 \) production (V\( CO_2 \))** | ~ 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\( _2 \)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
|---|---

| \( \text{SpO}_2 \) pulse (optional) | High / Low
|---|---

| et\( CO_2 \) (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\( _2 \)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, \text{air}: 2.7 \text{ to } 6 \text{ 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: | 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
|---|---

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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 kPa, dry.