# Dräger Evita V600
# ICU Ventilation

Experience the next level of ventilator operation. The Evita V600 combines high performance ventilation with an aesthetic design helping to enable quick and efficient operation. From initiating a lung-protective ventilation strategy to maintaining a safe, patient-centered intensive care unit, the V600 provides the tools needed to help support your most critical patients.

Dräger

Technology for Life

# Technical Data

| | |
|---|---|
| Patient type | Adults, pediatric patients, neonates |
| **Ventilation settings** | |
| Ventilation mode | Volume controlled ventilation:<br>• VC-CMV<br>• VC-SIMV<br>• VC-AC<br>• VC-MMV<br>Pressure controlled ventilation:<br>• PC-CMV<br>• PC-SIMV+<br>• PC-SIMV<br>• PC-AC<br>• PC-APRV<br>• PC-PSV<br>Support of spontaneous breathing:<br>• SPN-CPAP/PS<br>• SPN-CPAP/VS<br>• SPN-CPAP<br>• SPN-PPS |
| Enhancements | • AutoFlow[1] / Volume Guarantee<br>• Variable Pressure Support<br>• Smart Pulmonary View<br>• Automatic Tube Compensation (ATC)[1]<br>• SmartCare/PS 2.0 – Automated clinical protocol in SPN-CPAP/PS<br>• Low Flow PV Loop<br>• PEEP/$FiO_2$-view<br>• Decelerating flow |
| Special procedures | • Driving pressure maneuver<br>• Suction maneuver<br>• Manual inspiration/hold<br>• Medication nebulization<br>• P0.1<br>• PEEPi<br>• NIF |
| Therapy types | • Invasive ventilation<br>• Non-invasive ventilation (NIV)<br>• $O_2$-therapy |
| Respiratory rate (RR) | Adult 0.5 to 98/min<br>Pediatric patients, Neonates 0.5 to 150/min |
| Inspiratory time (Ti) | Adults 0.11 to 10 s<br>Pediatric patients, Neonates 0.1 to 10 s |
| Tidal volume (VT) | Adults 100 to 300 ml<br>Pediatric patients 20 to 300 ml<br>Neonates 2 to 100 ml |
| Inspiratory flow (Flow) | Adults 2 to 120 L/min<br>Pediatric patients 2 to 30 L/min<br>Neonates 2 to 30 L/min |
| Maximum flow during non-invasive ventilation of neonates (Flow max) | 6 to 30 L/min |

# Technical Data

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|---|---|
| Inspiratory pressure (Pinsp) | 3 to 95 $cmH_2O$ |
| Pressure limitation (Pmax) | 4 to 100 $cmH_2O$ |
| Positive end-expiratory pressure (PEEP) | 0 to 50 $cmH_2O$ |
| Additional intermittent PEEP for sighs (ΔintPEEP) | 0 to 20 $cmH_2O$ |
| Pressure support (Psupp) | 0 to 95 $cmH_2O$ |
| Pressure rise time (Slope) | Adults, Pediatric patients 0 to 2 s<br>Neonates 0 to 1.5 s |
| $O_2$ concentration ($FiO_2$) | 21 to 100 Vol.% |
| Trigger threshold (Flow trigger) | 0.2 to 15 L/min |
| Automatic Tube Compensation (ATC) | Inside tube diameter tube Ø<br>• Endotracheal tube ET<br>Adults 5 to 12 mm (0.2 to 0.47 inch),<br>Pediatric patients 2 to 8 mm (0.08 to 0.31 inch),<br>Neonates 2 to 5 mm (0.08 to 0.2 inch)<br>• Tracheostomy tube (Trach.)<br>Adults 5 to 12 mm (0.2 to 0.47 inch),<br>Pediatric patients 2.5 to 8 mm (0.1 to 0.31 inch)<br>• Degree of compensation 0 to 100% |

**Airway Pressure Release Ventilation (APRV)**

| | |
|---|---|
| Inspiratory time (Thigh) | 0.1 to 30 s |
| Expiratory time (Tlow) | 0.05 to 30 s |
| Maximum duration of lower pressure level (Tlow max) | 0.05 to 30 s |
| Upper pressure level (Phigh) | 3 to 95 $cmH_2O$ |
| Lower pressure level (Plow) | 0 to 50 $cmH_2O$ |
| Expiration termination criterion<br>(in relation to the peak expiratory flow) (Exp. term.) | 1 to 80% (PEF) |

**Proportional Pressure Support (SPN-PPS)**

| | |
|---|---|
| Flow-based assistance (Flow Assist) | Adults 0 to 30 $cmH_2O/L/s$<br>Pediatric patients 0 to 100 $cmH_2O/L/s$<br>Neonates 0 to 300 $cmH_2O/L/s$ |
| Volume-based assistance (Vol. Assist) | |
| Adults<br>Corresponds to compliance compensation | 0 to 100 $cmH_2O/L$<br>10000 to 10 $mL/cmH_2O$ |
| Pediatric patients<br>Corresponds to compliance compensation | 0 to 1000 $cmH_2O/L$<br>10000 to 1 $mL/cmH_2O$ |
| Neonates<br>Corresponds to compliance compensation | 0 to 4000 $cmH_2O/L$<br>1000 to 0.3 $mL/cmH_2O$ |

**$O_2$-therapy**

| | |
|---|---|
| Constant flow (Flow) | 2 to 80 L/min (adults)<br>2 to 30 L/min (pediatric patients)<br>2 to 15 L/min (neonates) |
| Pressure limitation (Pmax) | 4 to 55 $cmH_20$ |
| $O_2$ concentration ($FiO_2$) | 21 to 100 Vol% |

# Technical Data

| Leakage compensation | |
|---|---|
| | On/Off<br>On: full compensation active<br>Off: only trigger compensation active |

| Displayed measured values | |
|---|---|
| Airway pressure measurement | Plateau pressure (Pplat)<br>Positive end-expiratory pressure (PEEP)<br>Peak Inspiratory Pressure (PIP)<br>Mean airway pressure (Pmean)<br>Minimum airway pressure (Pmin)<br>Range -60 to 130 $cmH_2O$ |

| Flow measurement | |
|---|---|
| Minute volume measurement | Expiratory minute volume, overall, not leakage-corrected (MVe)<br>Inspiratory minute volume, overall, not leakage-corrected (MVi)<br>Minute volume, leakage-corrected (MV)<br>Mandatory expiratory minute volume, overall, non leakage-corrected (MVemand)<br>Spontaneous expiratory minute volume, overall, non leakage-corrected (MVespon)<br>Range 0 to 99 L/min BTPS |
| Tidal volume measurement | Tidal Volume, leakage-corrected (VT)<br>Mandatory inspiratory tidal volume, non leakage-corrected (VTimand)<br>Mandatory expiratory tidal volume, non leakage-corrected (VTemand)<br>Spontaneous inspiratory tidal volume, non leakage-corrected (VTispon)<br>Spontaneous expiratory tidal volume, non leakage-corrected (VTespon)<br>Range 0 to 5500 mL BTPS |
| Respiratory rate measurement | Respiratory rate (RR)<br>Mandatory respiratory rate (RRmand)<br>Spontaneous respiratory rate (RRspon)<br>Range 0/min to 300/min |
| $O_2$ measurement (inspiratory side) | Inspiratory $O_2$ concentration ($FiO_2$)<br>Range 18 to 100 Vol% |
| $CO_2$ measurement in main flow (adults and pediatric patients only) | End-tidal $CO_2$ concentration ($etCO_2$)<br>Range 5 to 120 mmHg |

| Endotracheal Suction Support | |
|---|---|
| Disconnection detection | Automatic |
| Reconnection detection | Automatic |
| Pre-oxygenation | Max. 3 minutes |
| Active suction phase | Max. 2 minutes |
| Post-oxygenation | Max. 2 minutes |
| Factor for pediatric patients and neonates | 1 to 2 |
| Supply system for spontaneous breathing and Psupp | Adaptive CPAP system with high initial flow |

# Technical Data

| Displayed calculated values | |
|---|---|
| Tidal volume per kg of body weight (VT/IBW) | 0 to 100 mL/kg |
| Dynamic compliance (Cdyn) | Range 0 to 650 mL/cm$H_2O$ |
| Resistance (R) | Range 0 to 1000 cm$H_2O$/L/s |
| Leakage minute volume (MVleak) | Range 0 to 99 L/min, BTPS |
| Rapid shallow breathing index (RSBI) | Adults 0 to 9999<br>Pediatric patients 0 to 9999<br>Neonates 0 to 300 |
| Negative Inspiratory Force (NIF) | Range -80 to 0 cm$H_2O$ |
| Driving pressure maneuver | Static compliance (Cstat dp)<br>0 to 500 mL/cm$H_2O$<br>Plateau pressure (Pplat dp) -45 to 100 cm$H_2O$<br>Driving Pressure (Pdrive dp) -45 to 100 cm$H_2O$ |
| Occlusion pressure P0.1 | Range 0 to -25 cm$H_2O$ |
| Waveform displays | Airway pressure Paw (t) -30 to 100 cm$H_2O$<br>Flow (t) -180 to 180 L/min<br>Volume V (t) 2 to 3000 mL<br>$CO_2$ (t) 0 to 120 mmHg |

| Alarms / Monitoring | |
|---|---|
| Minute volume (MVe, MVi, MV) | High / Low |
| Airway pressure (Paw) | High |
| Inspiratory $O_2$ concentration ($FiO_2$) | High / Low |
| End-tidal $CO_2$ concentration ($etCO_2$) | High / Low |
| Respiratory rate (RR) | High |
| Volume monitoring (VT) | High / Low |
| Apnea alarm time (Tapn) | 5 to 60 seconds, Off |
| Disconnection alarm time (Tdiscon) | 0 to 60 seconds |

| Performance data | |
|---|---|
| Control principle | Time-cycled, volume-constant, pressure-controlled |
| Length of intermittent PEEP | 1 to 20 expiratory cycles |
| Medication nebulization | For 5, 10, 15, 30 minutes, continuous (∞) |
| Inspiratory flow | Max. 180 L/min, BTPS |
| Base flow, adults | 2 L/min |
| Base flow, pediatric patients | 3 L/min |
| Base flow, neonates | 6 L/min |

# Technical Data

| Operating data | |
|---|---|
| **Mains power supply** | |
| Electric power inlet | 100 V to 240 V, 50/60 Hz |
| **Current consumption** | |
| At 230 V | Max. 1.3 A |
| At 100 V | Max. 3.0 A |
| Initial current | Approx. 8 to 24 A peak<br>Approx. 6 to 17 A quasi RMS |
| **Power consumption** | |
| Maximum | 300 W |
| During ventilation, without charging the battery | Approx. 100 W ventilation unit with display unit<br>Approx. 180 W with GS500 |
| **Gas supply** | |
| $O_2$ operating pressure | 39 to 87 psi |
| Air operating pressure | 39 to 87 psi |

| Battery details | |
|---|---|
| Internal battery of ventilation unit (without PS500) | Type NiMH battery, sealed<br>Exchange interval 2 years |
| Battery runtime | Without GS500 30 minutes<br>With GS500 15 minutes |
| Batteries in the PS500 power supply unit | Type LFP batteries<br>Exchange interval 6 years |
| Battery runtime | Without GS500 240 minutes<br>With GS500 120 minutes |
| Automatic switch over from internal to external battery | |
| Battery test available | |
| The battery runtime applies when the batteries are fully charged and new and ventilation is typical. | |

# Technical Data

| Screen values | |
|---|---|
| Evita V600 diagonal screen size | 15.6 inches |
| Input / Output ports | • 3 external RS232 (9-pin) connectors<br>• 4 USB ports for data collection<br>• 1 LAN port (only for networks that meet the requirements of the IEEE 802.3 standard)<br>• 1 HDMI port |
| Touchscreen technology | Capacitive touchscreen with glass front |
| Aspect ratio | 16:9 |
| Resolution | 1366 x 768 pixels |
| Digital machine output | Digital output and input via an RS232 C interface<br>Dräger MEDIBUS and MEDIBUS.X<br>Digital output via LAN interface |

1. ATC, trademarked by Dräger. AutoFlow, trademarked by Dräger.

BTPS – Body Temperature Pressure Saturated. Measured values relating to the conditions of the patient lung 37° C (98.6° F), steam-saturated gas, ambient pressure.

Some functionalities are available as an option.

| Dimensions (W x H x D) | |
|---|---|
| Evita V600 on trolley | 22.8 x 55.1 x 30.5 in |

| Weights | |
|---|---|
| Ventilation unit | approx. 16.5 kg (36.4 lb) |
| Display unit | approx. 5 kg (11 lb) |
| Trolley | approx. 34 kg (75 lb) |
| PS500 | approx. 8 to 14 kg (17.6 to 30.9 lb) |
| GS500 | approx. 10.5 kg (23.1 lb) |
| Nominal weight | approx. 56.5 kg (124.6 lb) |
| Maximum weight (permitted maximum total weight) | 150 kg (331 lb) |

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