

Evita® V300 ICU Ventilation and Respiratory Monitoring

The Evita® V300 is a scalable and versatile device which offers high ventilation quality. To meet and master the changing conditions and challenges of your everyday hospital work you need flexible equipment with versatile opportunities.



Benefits

Versatile and scalable

- Ventilation for adults, children and neonates: invasive, non-invasive and with O₂-therapy
- Volume- or pressure-controlled ventilation, spontaneous breathing
- Independence due to optional gas and power supply units: GS500 (compressed air), PS500 (power), TSU (gas)
- Flexible workstation integration by attaching to supply unit or trolley
- Individually adjustable configurations easily transferred via USB
- Context-sensitive help function facilitates setting the ventilation parameters and explains device functions

High ventilation quality I

- Automatic tube compensation (ATC) compensates for artificial airway resistance
- Automatic leak compensation with invasive and non-invasive ventilation
- AutoFlow® in volume-controlled ventilation provides the tidal volume at the lowest possible pressure
- PC-APRV with optional AutoRelease enables spontaneous breathing with continuous positive airway pressure and short-term pressure relief
- Breathing deeply and freely thanks to AutoFlow®, Volume Guarantee (VG) or SPN-CPAP

High ventilation quality II

- Various spontaneous breathing support, e.g.: VC-MMV, SPN-PPS, Volume Support (VS), Pressure Support (PS)
- Advanced analysis tools such as trends or CO₂ monitoring
- Automatic weaning with SmartCare®/PS
- Graphical representation of breathing resistance and elasticity with Smart Pulmonary View

The scope of functions offered by the Evita V300 is individually scalable with optional hardware and software components.

Related Products



Dräger Evita® Infinity® V500 ventilator

Combine fully-featured, high-performance ventilation with Infinity® Acute Care System™ integration to meet the challenges of today's health care environment.



Dräger Savina® 300 Classic

The Dräger Savina® 300 Classic (in this configuration) combines the independence and power of a turbine-driven ventilation system with a wide range of ventilation modes. The large color touch screen and intuitive operating system that concentrates on essential features make configuration and operation very simple.



Dräger Carina®

Designed for non-invasive ventilation: With its unique SyncPlus® technology and an extended NIV function, the user-friendly Dräger Carina® offers reliable and easy ventilation – and thanks to its compact design, this also applies when transporting patients.



Dräger PulmoVista® 500

Making ventilation visible. Put the power of Electrical Impedance Tomography (EIT) to work for you and your patients. With the PulmoVista® 500, you can visualise regional air distribution within the lungs - non-invasive, in real time and directly at bedside.

| Patient type | Adults, pediatric patients, neonates |
|-------------------------------------|---|
| Ventilation settings | |
| Ventilation mode | Volume controlled ventilation - VC-CMV - VC-SIMV - VC-AC - VC-MMV Pressure controlled ventilation - PC-CMV - PC-BIPAP1 / SIMV+ - PC-SIMV - PC-AC - PC-APRV - PC-PSV Support of spontaneous breathing - SPN-CPAP/VS |
| | - SPN-CPAP |
| | - SPN-PPS |
| | Smart Pulmonary View Automatic Tube Compensation® (ATC) Mask Ventilation (NIV) CO₂ monitoring Monitoring Plus – additional Trends and Loops SmartCare®/PS 2.0 – Automated clinical protocol in SPN-CPAP/PS O₂-therapy |
| Special procedures | Suction maneuver Manual inspiration/hold Medication nebulization P0.1 PEEPi NIF |
| Therapy types | Invasive ventilation (Tube)Non-invasive ventilation (NIV)O₂-therapy |
| Ventilation frequency (RR) | Adults 0.5 to 98/min Pediatric patients, Neonates 0.5 to 150/min |
| nspiration time (Ti) | Adults 0.11 to 10 s Pediatric patients, Neonates 0.1 to 10 s |
| Fidal volume (VT) | Adults 0.1 to 3.0 L Pediatric patients 0.02 to 0.3 L Neonates 0.002 to 0.1 L |
| nspiratory flow (Flow) | Adults 2 to 120 L/min Pediatric patients, Neonates 2 to 30 L/min |
| nspiratory pressure (Pinsp) | 1 to 95 mbar (or hPa or cmH ₂ O) |
| nspiratory pressure limit (Pmax) | 2 to 100 mbar (or hPa or cmH ₂ O) |
| PEEP / intermittent PEEP (ΔintPEEP) | 0 to 50 mbar (or hPa or cmH ₂ O) |
| | 0 to 95 mbar (or hPa or cmH ₂ O) |

| Rise time for pressure assist (Slope) | Adults, Pediatric patients 0 to 2 s |
|---|---|
| | Neonates 0 to 1.5 s |
| O ₂ concentration (FiO ₂) | 21 to 100 Vol.% |
| Trigger sensitivity (Flow trigger) | 0.2 to 15 L/min |
| Automatic Tube Compensation® (ATC) | Inside tube diameter (tube Ø) |
| | Endotracheal tube (ET) |
| | Adults 5 to 12 mm (0.2 to 0.47 inch) |
| | Pediatric patients 2 to 8 mm (0.08 to 0.31 inch) |
| | Neonates 2 to 5 mm (0.08 to 0.2 inch) |
| | Tracheostoma tube (Trach.) |
| | Adults 5 to 12 mm (0.2 to 0.47 inch) |
| | Pediatric patients 2.5 to 8 mm (0.1 to 0.31 inch) |
| | - Degree of compensation 0 to 100 % |
| Airway Pressure Release Ventilation (PC-APRV) | |
| Inspiratory time (Thigh) | 0.1 to 30 s |
| Expiratory time (Tlow) | 0.05 to 30 s |
| Maximum time of low pressure level in APRV/PEF (Tlow max) | 0.05 to 30 s |
| Inspiratory pressure (Phigh) | 1 to 95 mbar (or hPa or cmH ₂ O) |
| Expiratory pressure (Plow) | 0 to 50 mbar (or hPa or cmH ₂ O) |
| Termination criterion (peak expiratory flow) Exp. term. | 1 to 80 % (PEF) |
| Proportional Pressure Support (SPN-PPS) | |
| Flow Assist (Flow Assist) | Adults 0 to 30 mbar/L/s (or hPa/L/s or cmH ₂ O/L/s) |
| | Pediatric patients 0 to 100 mbar/L/s (or hPa/L/s or cmH ₂ O/L/s) |
| | Neonates 0 to 300 mbar/L/s (or hPa/L/s or cmH ₂ O/L/s) |
| Volume Assist (Vol. Assist) | Adults 0 to 100 mbar/L (or hPa/L or cmH ₂ O/L) |
| corresponds to compliance compensation | 10,000 to 10 mL/mbar (or mL/hPa or mL/cmH ₂ O) |
| | Pediatric patients 0 to 1,000 mbar/L (or hPa/L or cmH ₂ O/L) |
| corresponds to compliance compensation | 10,000 to 1 mL/mbar (or mL/hPa or mL/cmH ₂ O) |
| | Neonates 0 to 4,000 mbar/L (or hPa/L or cmH ₂ O/L) |
| corresponds to compliance compensation | 1,000 to 0.3 mL/mbar (or mL/hPa or mL/cmH ₂ O) |
| 0.11 | Oution Florida FOLIVI |
| O ₂ -therapy | Continuous Flow 2 to 50 L/min |
| | O ₂ concentration FiO ₂ 21 to 100 Vol% |
| Leakage compensation | On/Off – On: full compensation active; |
| | Off: only trigger compensation active |
| Displayed measured values | |
| Airway pressure measurement | Plateau pressure (Pplat) |
| | Positive end-expiratory pressure (PEEP) |
| | Peak inspiratory pressure (PIP) |
| | Mean airway pressure (Pmean) |
| | Minimum airway pressure (Pmin) |
| | Range -60 to 120 mbar (or hPa or cmH ₂ O) |
| Flow Measurement | |
| Minute volume measurement | Expiratory minute volume (MVe) |
| | Inspiratory minute volume (MVi) |
| | Mandatory expiratory minute volume (MVemand) |
| | Spontaneous expiratory minute volume (MVespon) |
| | Minute volume, leakage-compensated (MV) |
| | Range 0 to 99 L/min BTPS |

| Tidal volume measurement | Tidal Volume (VT) |
|--|--|
| | Inspiratory tidal volume (not leakagecompensated) of mandatory |
| | breaths (VTimand) |
| | Expiratory tidal volume (not leakagecompensated) of mandatory |
| | breaths (VTemand) |
| | Inspiratory tidal volume (not leakagecompensated) of spontaneous |
| | breaths (VTispon) |
| | Range 0 to 5,500 mL BTPS |
| Respiratory rate measurement | Breathing frequency (RR) |
| | Mandatory respiratory rate (RRmand) |
| | Spontaneous breathing frequency (RRspon) |
| | Range 0/min to 300/min |
| O ₂ measurement (inspiratory side) | Inspiratory O ₂ concentration (FiO ₂) |
| | Range 18 to 100 Vol% |
| CO ₂ measurement in mainstream | End-expiratory CO ₂ concentration (etCO ₂) |
| (adults and pediatric patients only) | Range 0 to 100 mmHg |
| Displayed calculated values | |
| Compliance (C) | Range 0 to 650 mL/mbar (or mL/cmH ₂ O) |
| Resistance (R) | Range 0 to 1,000 mbar/ (L/s) (or cmH ₂ O / (L/s)) |
| Leakage minute volume (MVleak) | Range 0 to 99 L/min BTPS |
| Rapid Shallow Breathing (RSB) | Range 0 to 9,999 (/min/L) |
| Negative Inspiratory Force (NIF) | Range -80 mbar to 0 mbar (or hPa or cmH ₂ O) |
| Occlusion pressure P0.1 | Range 0 to -25 mbar (or hPa or cmH ₂ O) |
| Curve displays | Airway pressure Paw (t) -30 to 100 mbar (or hPa or cmH ₂ O) |
| | Flow (t) -180 to 180 L/min |
| | Volume V (t) 2 to 3,000 mL |
| | Exp. CO ₂ concentration (etCO ₂) 0 to 100 mmHg |
| | |
| Alarms / Monitoring | ~ - |
| Alarms / Monitoring Expiratory minute volume (MVe) | High / Low |
| | High / Low |
| Expiratory minute volume (MVe) | |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) | High / Low |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) | High / Low High / Low |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) | High / Low High / Low High / Low |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) | High / Low High / Low |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) | High / Low High / Low High / Low High High |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) | High / Low High / Low High / Low High High / Low 5 to 60 seconds |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) | High / Low High / Low High / Low High High / Low 5 to 60 seconds |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data | High / Low High / Low High / Low High / Low High High / Low 5 to 60 seconds 0 to 60 seconds |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle | High / Low High / Low High / Low High / Low High High / Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration | High / Low High / Low High / Low High High High High / Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled 1 to 20 expiratory cycles |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration Medicament nebulisation | High / Low High / Low High / Low High High High High High High / Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled 1 to 20 expiratory cycles for 5, 10, 15, 30 minutes |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration Medicament nebulisation Inspiratory flow (BTPS) | High / Low High / Low High / Low High High High High High Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled 1 to 20 expiratory cycles for 5, 10, 15, 30 minutes max. 180 L/min |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration Medicament nebulisation Inspiratory flow (BTPS) Base flow, adults | High / Low High / Low High / Low High High |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration Medicament nebulisation Inspiratory flow (BTPS) Base flow, adults Base flow, pediatric patients | High / Low High / Low High / Low High High High / Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled 1 to 20 expiratory cycles for 5, 10, 15, 30 minutes max. 180 L/min 2 L/min 3 L/min |
| Expiratory minute volume (MVe) Airway pressure (Paw) Insp. O ₂ concentration (FiO ₂) End-expiratory CO concentration (etCO ₂) Tachypnoea monitoring (RR) Volume monitoring (VT) Apnea alarm time (Tapn) Disconnect alarm delay time (Tdisconnect) Performance data Control principle Intermittent PEEP duration Medicament nebulisation Inspiratory flow (BTPS) Base flow, adults Base flow, pediatric patients Base flow, neonates | High / Low High / Low High / Low High High / Low 5 to 60 seconds 0 to 60 seconds time-cycled, volume-constant, pressure-controlled 1 to 20 expiratory cycles for 5, 10, 15, 30 minutes max. 180 L/min 2 L/min 3 L/min 6 L/min |

| Disconnection detection | automatic |
|---|--|
| Reconnection detection | automatic |
| Initial Oxygen enrichment | max. 3 minutes |
| Active suction phase | max. 2 minutes |
| Final oxygen enrichment | 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 |
| Operating data | |
| Mains power supply | |
| Mains power connection | 100 V to 240 V, 50/60 Hz |
| Current consumption | |
| at 230 V | max. 1.4 A |
| at 100 V | max. 3.0 A |
| Inrush current | approx. 8 to 24 A peak |
| | approx. 6 to 17 A quasi RMS |
| Power consumption | |
| maximum | 300 W |
| during ventilation, without charging the battery | approx. 100 W ventilation unit with Medical Cockpit |
| | approx. 180 W with GS500 |
| Digital machine output | Digital output and input via an RS232 C interface |
| | Dräger MEDIBUS and MEDIBUS.X |
| Gas supply | |
| O ₂ gauge pressure | 2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi) |
| Air gauge pressure | 2.7 to 6.0 bar (or 270 to 600 kPa or 39 to 87 psi) |
| Physical Specifications | Dimensions (W x H x D) |
| Ventilation unit with lateral standard rail | 361 mm x 320 mm x 410 mm |
| (without Infinity® C300) | (14.3 in x 12.6 in x 16.1 in) |
| Ventilation unit and Infinity® C300 on the trolley, | 577 mm x 1,405 mm x 687 mm |
| carrier frame without bar | (22.7 in x 55.3 in x 27.1 in) |
| Ventilation unit and Infinity® C300 on the trolley, | 577 mm x 1,405 mm x 700 mm |
| carrier frame with bar | (22.7 in x 55.3 in x 27.6 in) |
| Weight | |
| Evita® V300 and Infinity® C300 | approx. 24 kg (52.9 lbs) |
| Evita® V300 and Infinity® C300 on trolley | approx. 58 kg (127.9 lbs) |
| PS500 | approx. 27 kg (59.5 lbs) |
| GS500 | approx. 10.5 kg (23 lbs) |
| Mounting: Supporting frame | 1,65 kg (3.64 lbs) |
| Adapter for 38 mm pole | 2,35 kg (5.18 lbs) |
| Infinity® C300 | |
| Diagonal screen size Infinity® C300 | 15,4" TFT color touch screen |
| <u> </u> | - 2 external RS232 (9-pin) connectors |
| Input / Output ports (at Infinity® C300) | |
| Input / Output ports (at Infinity® C300) | 3 USB ports for data collection |
| Input / Output ports (at Infinity® C300) | 3 USB ports for data collection1 DVI for digital video output |
| Input / Output ports (at Infinity® C300) | • |