Dräger Evita 4 Ventilator

SEATTLE TECHNOLOGY
SURGICAL DIVISION

The Dräger Evita 4 was designed to meet the demanding requirements of the ICU environment by improving the interactions between patient, ventilator and clinician. The functional touch screen continually provides the clinician information on ventilator settings, patient measurements and advanced trending capabilities which enhances the operation of the device. Unique features and modalities such as AutoFlow™ and APRV are standard on all Evita 4 ventilators.

Typical Manufacturer's Image

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Dräger Evita 4 Ventilator

Specifications

VENTILATION SETTINGS

Ventilation Mode:

» IPPV, IPPVAssist (CMV, CMVAssist)
» SIMV, SIMVASB (SIMV, SIMV/Psupp)
» MMV, MMVASB (MMV, MMV/Psupp)
» BIPAP1), BIPAP1)ASB, BIPAP1)

Assist (PCV+, PCV+/Psupp, PCV+Assist)

» APRV
» CPAP, CPAPASB (CPAP, CPAP/Psupp)
» ILV
» PPS (optional)

Enhancements:

» AutoFlow™ – Automatic adaptation of inspiratory flow in volume controlled modes
» ATCTM – Automatic Tube Compensation (optional)
» NIV – Mask Ventilation (optional)

Ventilation frequency (f): 0 to 100 /min, 0 to 150 /min (Neonatal)
Inspiration time (Tinsp): 0.1 to 10 s
Tidal volume (VT) (BTPS):

» 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 80 mbar (cmH_2O)
PEEP / intermittent PEEP: 0 to 35 mbar (cmH_2O) Pressureassist (PASB) (Psupp): 0 to 80 mbar (cmH_2O)
Rise time for inspiratory pressure: 0 to 2 s
O_2 concentration: 21 to 100 Vol.%
Trigger sensitivity: 0.3 to 15 L/min

MEASURED VALUES DISPLAYED

Airway pressure: Peak pressure, plateau pressure, mean pressure, PEEP, min. pressure (0 to 99 mbar/cmH_2O)
Minute volume (MV), (BTPS): MV, MVspont, MVleak (0 to 99 L/min)
Tidal volume (VT), (BTPS): Inspired VT, expired VT, VTPS (0 to 3999 mL)
Breathing frequency (f): ftotal, fspon, fmand. (0 to150/bpm)
O_2 concentration (FiO_2): Inspired O_2 concentration (15 to 100 Vol.%)
Lung mechanics

- Resistance (0.0 to 600 mbar/L/s) (cmH_2O/L/s)
- Compliance (0.0 to 300 mL/mbar) (mL/cmH_2O)

Breathing gas temperature: 18° to 51°C
Waveforms: Airway pressure-time, flow-time, volume-time, Trends (8 anyone configurable): FiO_2, MV, VT, f, PEEPi, R, C, $EtCO_2$, Loops: Paw-V, V-Flow, Flow-Paw
Capnography ($EtCO_2$) (optional): 0 to 100 mmHg

MEASURED VALUES DISPLAYED continued

CO_2 production (VCO_2): 0 to 999 mL/min, STPD
Serial dead space Vds: 0 to 999 mL, BTPS
Dead space ventilation (Vds/VT): 0 to 99 %
O_2 saturation: SpO_2, pulse

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
SpO_2 pulse (optional): High / Low
$EtCO_2$ (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
Safety relief valve: 100 mbar (cmH_2O)

LEAKAGE COMPENSATION

HOSE SYSTEM COMPENSATION

OUTLET FOR PNEUMATIC NEBULIZER

OPERATING DATA

Mains power connection: 110 to 240 V, 50/60 Hz, 10 to 30 V DC (optional)
Power consumption: Approx. 125 W
Gas supply operating pressure: O_2, air: 2.7 to 6 bar / 39 to 87 PSI

PHYSICAL SPECIFICATIONS

Dimensions ventilator (without trolley): 530W x 290H x 450D cm (20.9 x 11.4 x 17.7 inches)
Weight basic unit: Approx. 29 kg (64 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