



The **Drager Evita 4** is a ventilator that can be used on Adult, Pediatric, and Neonates. This ventilator can also be used on premature babies utilizing the NeoFlow option. It's a time-cycled, constant-volume long-term ventilator. It was designed to meet the demanding requirements of the ICU environment by improving the interactions between patient, ventilator and clinician. The Evita 4 has a functional touch screen that continually provides the clinician information on ventilator settings, patient measurements and advanced trending capabilities which enhances the operation of the device.

Features

- Integrated respiratory monitoring.
- Adult, Pediatric, and Neonatal patients with a body weight of at least 3 kg.



Specifications

Weight & Dimensions

Height: 11.4 inches (290 cm)
Width: 20.9 inches (530 cm)
Depth: 17.7 inches (450 cm)
Weight: Approx. 27 kg (60 lbs.)
Diagonal screen size: 6.5" TFT LCD color display

Measured Values Displayed

Airway pressure: Peak pressure, plateau pressure, mean pressure, PEEP, min. pressure (0 to 99 mbar/cmH₂O)
Minute volume (MV), (BTPS): MV, MVspont, MVleak (0 to 99 L/min)
Tidal volume (VT), (BTPS): Inspired VT, expired VT, VTASB (VTPS) (0 to 3999 mL)
Breathing frequency (f): ftotal, fspon, fmand. (0 to 300/bpm)
O₂ concentration: (FiO₂) Inspired O₂ concentration (15 to 100 Vol.%)
Lung mechanics:
Resistance ((0.0 to 600 mbar/L/s)(cmH₂O/L/s)
Compliance ((0.0 to 300 mL/mbar)(mL/cmH₂O)
Breathing gas temperature: 18° to 51°C
Waveforms: Airway pressure-time, flow-time, volume-time, ...
Trends (optional): FiO₂, MV, VT, f, PEEPi, R, C, etCO₂, ...
Loops (optional): Paw-V, V-Flow, Flow-Paw, ...
Capnography (etCO₂) (optional): 0 to 100 mmHg
CO₂ production (VCO₂): 0 to 999 mL/min, STPD
Serial dead space V_{ds}: 0 to 999 mL, BTPS
Dead space ventilation (V_{ds}/VT): 0 to 99%
O₂ saturation: SpO₂, 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 O₂ concentration: High/Low
Breathing gas temperature: High
SpO₂ pulse (optional): High/Low
etCO₂ (optional): High/Low

Performance Data

Max. flow for pressure support and spontaneous breathing: 180 L/min (adult), 60 L/min (pediatric)
Valve response time: ≤ 5 ms
Control principle: Time cycled, volume constant, pressure-controlled
Safety relief valve: 100 mbar (cmH₂O)

Specifications

Performance Data (Continued)

Leakage compensation
Hose system compensation
Outlet for pneumatic nebulizer

Operating Data

Mains power connection: 100 to 240 V, 50/60 Hz, 10 to 30 V DC (optional)
Power consumption: Approx. 125 W
Gas supply operating pressure: O₂, air: 2.7 to 6 bar / 39 to 87 PSI

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)
CPAP, CPAPASB (CPAP, CPAP/Psupp)
APRV (optional)
ILV (optional)
Enhancements
AutoFlow™ – Automatic adaptation of inspiratory flow in volume controlled modes
ATC™ – Automatic Tube Compensation (optional)
IV - Mask Ventilation (optional)
Ventilation frequency (f): 0 to 100 /min, 0 to 150 /min (Neonatal)
Inspiration time (T_{insp}): 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 (cmH₂O)
PEEP / intermittent PEEP: 0 to 35 mbar (cmH₂O)
Pressureassist (PASB) (Psupp): 0 to 80 mbar (cmH₂O)
Rise time for inspiratory pressure: 0 to 2 s
O₂ concentration: 21 to 100 Vol.%
Multi-sense Trigger Criteria: Internal automatic pressure trigger, Flow, Volume
(Flow adjustable 0.3 to 15 L/min)

