Evita 4 edition

One of the best keeps getting better
Even when there’s little room for improvement ...
The tradition of leadership continues
The highly dependable Evita 4 has been recognized around the world as a leader in ventilation performance. Now, the Evita 4 edition takes this popular ICU ventilator to yet another level, combined with design refinements that redefine user value.

A more user-friendly interface
Evita 4 edition’s ergonomic display offers exceptional viewing. It also speeds routine tasks ranging from calibration to maintenance by providing ideal access to the hose system, flow sensor and expiration valve. The full-color screen provides a comprehensive customized overview of the patient’s ventilation therapy, complete with configurable trends, loops, measured values, curves and logbook.

To assure immediate recognition of the required settings, the user-friendly display shows only the active control elements. For added convenience and efficiency, the robust touch screen combines highly flexible operation with direct access to rotary knobs and keys.

Improved workflow efficiency
The design of the patient part heating, expiration block housing and flow sensor cover has been optimized to reduce condensation in the patient system and expiration valve. As a result, Evita 4 edition extends flow sensor life and minimizes the time clinicians spend checking and changing sensors. In addition, a drawer has been integrated so flow sensors, operating instructions or other frequently needed items are readily accessible at all times.

How you benefit:
• First-class ventilator performance
• One ventilator cost-effectively meets patient needs
• Enhancements improve workflow and minimize training
• CareArea™ Solution connectivity streamlines data capture so staff can focus on patient care

... we still find ways to make it better
It takes a lot to meet all your ventilation needs ...
One ventilator for every patient

Evita 4 edition is designed to accommodate patients from neonate to adult. With a wide range of options, it allows you to handle ever-changing patient populations and situations with a single solution. For example, the NeoFlow™ option offers flow measurement at the Y-piece for precise volume and leak monitoring of neonates with accurate, responsive triggering based on patient effort.

Excellent performance is standard

The Evita 4 edition allows respiratory loops to be displayed full screen, frozen and scrolled through with a cursor to show exact values. By pressing the reference key, each loop can be used as a reference loop. In the case of external flow sources, sensor tolerances can automatically be increased to prevent nuisance alarms.

And every Evita 4 edition is equipped with powerful weaning parameters. Rapid Shallow Breathing index, Negative Inspiratory Force index and VTass all contribute to improved consistency of successful weanings.

Improve gas exchange

Our “Room to Breathe” concept encourages spontaneous breathing. PCV+/BIPAP™ – the universal mode for ventilation and weaning in all pressure-controlled modes – gives a patient the freedom to breathe spontaneously at any time. AutoFlow facilitates spontaneous breathing in all volume-controlled modes. This optimizes weaning by reducing the need for sedation and invasiveness of ventilation.

Evita 4 edition also offers improved Automatic Tube Compensation (ATC™), an option that more precisely compensates for the tube-related work of breathing (WOB). This further improves weaning by adapting to patient efforts, and gives the feeling of virtual extubation.

NIV option helps recovery

Mask ventilation can complement the weaning process by reducing re-intubation rates or even eliminating the need for intubation in the first place. Because Evita 4 edition accommodates both conventional and non-invasive ventilation, it can help minimize the potential for infections, enhance recovery times and reduce length of stay compared to traditional therapies.

Due to an improved algorithm, non-invasive ventilation is now even more responsive to variable leakages. Quickier leakage “learning” and more responsive leakage compensation further enhance the patient-ventilator interaction.

... that’s why the Evita 4 edition is so complete.
More of what you look for ...

A safe investment
The Evita 4 edition is based on a fundamental guiding principle of Dräger Medical’s CareArea™ Solutions... the concept of continuous innovation. The device’s modular design ensures upgradeability and upward compatibility while the user interface and sensors guarantee a high degree of familiarity and consistency. Add options, such as ATC®, PPS, NIV and NeoFlow, as needed to customize the system to specific departmental needs. Then, easily upgrade to new features as they become available to ensure that the Evita 4 edition remains a sound investment over time.

In addition, as part of Dräger Medical’s CareArea™ Solution for Critical Care, the Evita 4 edition can be integrated with leading-edge monitoring, information management, architectural systems and smart accessories to help you steadily redefine process efficiency.

Operating costs
As the world of medicine becomes increasingly cost-conscious, the focus is shifting towards the operating costs of medical equipment. High-quality and long-lasting components characterize this proven ICU ventilator platform, resulting in lower operating costs.

Less training required
The continuity evident in the design of our user interfaces, even across different care areas, means current Dräger Medical customers will already be familiar with the operation of the Evita 4 edition. Increased user productivity and enhanced patient safety are two key advantages of Dräger Medical’s comprehensive and highly integrated CareArea™ Solutions.

Comprehensive support
Dräger Medical provides a comprehensive support system that ensures you and your staff are able to optimize the use of your Evita 4 edition. By focusing on your needs, we provide the tools to improve the quality of care for your patients.
... to positively impact critical care
Technical data

**Evita 4 edition**

**Patient type** Adults and children (bodyweight of at least 6.6 lbs. (3 kg))
With NeoFlow option: infants and neonates (min. body weight of 1.1 lbs (0.5 kg))

**Ventilation settings**

**Ventilation mode**
- IPPV, IPPVAassist (CMV, CMVAassist)
- SIMV, SIMVAssist (SIMV, SIMV/Psupp)
- MMV, MMVAssist (MMV, MMV/Psupp)
- BIPAP, BIPAPAssist, BIPAPAssist
(VCV+, PCV+/Psupp, PCV+/Assist)
- APRV
- CPAP, CPAPAssist (CPAP, CPAP/Psupp)
- ILV
- PPS (optional)*

**Enhancements**
- AutoFlow™ – Automatic adaptation of inspiratory flow in volume controlled modes
- ATC™ – 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 (cmH2O)

**PEEP / intermittant PEEP** 0 to 35 mbar (cmH2O)

**Pressure assist (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)

**Measured values displayed**
- Airway pressure
- Minute volume (MV), (BTPS*)
- Tidal volume (VT), (BTPS*)
- Breathing frequency (f)
- O2 concentration
- Lung mechanics
- Breathing gas temperature
- Waveforms
- Trends (8 anyone configurable)
- Alarms / Monitoring
- Performance data

**Airway pressure**
- Peak pressure, plateau pressure, mean pressure, PEEP, min. pressure (0 to 99 mbar/cmH2O)

**Minute volume (MV), (BTPS*)**
- MV, MVpeak, MVpeak (0 to 99 L/min)

**Tidal volume (VT), (BTPS*)**
- Inspired VT, expired VT, VTRs (0 to 3999 mL)

**Breathing frequency (f)**
- FSO2, FPEP, Fmand. (0 to 300/bpm)

**O2 concentration**
- 15 to 100 Vol.%

**Multi-sense Trigger Criteria**
- Internal automatic pressure trigger, Flow, Volume

**Waveforms**
- Airway pressure-time, flow-time, volume-time, ...

**Trends** (8 anyone configurable)
- FIO2, MV, VT, f, PEEP, R, C, etcO2, ...

**Alarms / Monitoring**
- Airway pressure
- Expired minute volume
- Tidal volume
- Apnea alarm time
- Spontaneous breath frequency
- Inspired O2 concentration
- Breathing gas temperature
- etcO2 (optional)

**Capnography (etCO2) (optional)**
- 0 to 100 mmHg
- 0 to 999 mL/min, STPD*
- 0 to 999 mL, BTPS*
- 0 to 99 %

**Performance data**
- Max. flow for pressure support
- and spontaneous breathing
- Valve response time T0...90
- 5 to 90 ms

**Control principle**
- Time cycled, volume constant, pressure-controlled
- Safety relief valve
- 100 mbar (cmH2O)

**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

**Physical Specifications**
- Dimensions ventilator (W x H x D)
- 530 x 290 x 450 mm (20.9 x 11.4 x 17.7 in.) (without trolley)
- Diagonal screen size
- 10.4" TFT LCD color touch screen
- Weight basic unit
- Approx. 27 kg (59.5 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

* PPS is not available in the US
* used under license

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**Evita 4 edition**

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The quality management system at Dräger Medical AG & Co. KG is certified according to ISO 13485, ISO 9001 and Annex II of Directive 93/42/EEC (Medical devices).