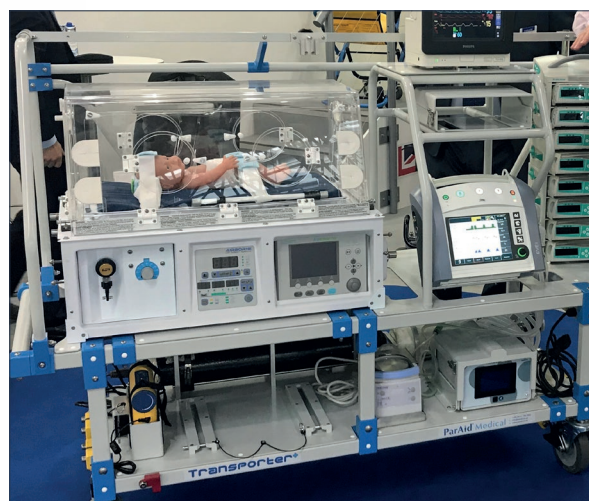


EVE-nEO

The innovative respiratory system for Neonatology & Paediatrics



Neonate & Infant Intensive Care / Transportable Ventilator

- Tidal Volume: Vt 2mL to 250mL
- Invasive & Non-Invasive ventilation Pressure & Volume modes
- Electronic Oxygen mixing 21-100% + Pre-oxygenation modes
- High Flow O2 Therapy 1 to 60LPM
- In-built Turbine & 8 hours Battery + Hot Swap packs
- Independent of air supply and power during transfer/ transport use



EVE-nEO when every breath counts

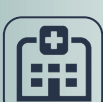
Ventilator Innovation



We care for the 'Little Patients'

EVE-nEO takes care of the little Patients from Pre-term Neonates to Infants.

With intensive care invasive and NIV ventilation modes & tidal volumes starting as low as 2ml up to 250ml..



Immediately ready for use

Safe ventilation in 70 seconds from power-on and device safety self tests. After a short selftest, **EVE-nEO** is ready for use without need for complex calibration processes ...as in an emergency every seconds counts.

Ventilation at the push of a button

In developing **EVE-nEO** priority was given to immediate operational readiness.

With 'FAST Safe-Start' control buttons

Dedicated fast safe-start control and user configurable ventilation scenarios selected at the push of just one button. Thanks to the intuitive operational concept, it is easily configured to the little patient's individual needs.

Innovative Ventilation Technology

EVE-nEO a versatile, innovative intensive care ventilator utilising state-of-the-art ventilation technology. All required invasive and non-invasive, pressure and volume controlled ventilation forms are available. Basic ventilation modes can be combined with additional options; PRVC, PSV and tube compensation, ensuring optimal ventilation for the little patients.

EVE-nEO offers a variety of different breathing maneuvers including the increasingly important **high flow O₂ (1-60 LPM) therapy**.



Accurate patient measurements

With advanced flow sensor technology we provide the highest accuracy measurements, and offer the choice of reusable [autoclavable] or disposable [one patient use consumable] flow sensors.

Independent of Air Supply & Power

With internal turbine and 8 hours battery with 4 hour hot swap (rechargeable) battery back-up' packs; use can be extended as required.

Compact, flexible, mobile

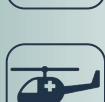
With its robust compact size, functional design and weighing ~6.0 kg.

EVE-nEO is optimally suited for mobile use virtually anywhere from ambulance vehicles to helicopters or onto emergency NTG trolleys & pods by means of its versatile mounting system.



EVE-nEO when every breath counts

Ventilator Innovation



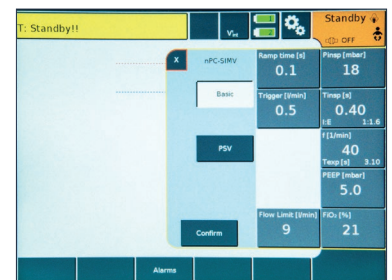
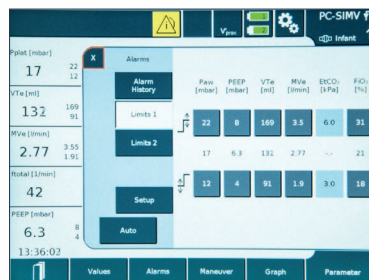
Configurable Displays & Screens

EVE-nEO ensures rapid deployment and delivers detailed monitoring, configurable displays, alarms and with the benefit of loops, curves and trends.



Easy & intuitive operation

Intuitive operator interface via the high definition 8.4 inch full colour touch screen and rotating control knob.



Accessory Options

We supply: mobile stands, transport brackets, O2 bottle holders etc.

Advanced Ventilation modes

Non-invasive and invasive pressure and volume modes:
 Neonate ventilation modes; nPC-CMV, nPC-SIMV, nDUOPAP and nCPAP.
 Paediatric modes PC-CMV, PC-SIMV, PC-ACV, PC-ACV+, VC-CMV, VC-SIMV, CPAP, CPAP backup, DUOPAP
 O₂ Therapy modes incl High Flow 1 to 60 LPM and Pre-oxygenation O₂ Flush.
 ETT Compensation, advanced Pressure Support PSV, Volume Guarantee PRVC modes and Nebulise mode.

External Trigger & Sensor Option for Pre-Term Neonates

We have developed a synchronization system capturing abdominal movements of the patient by means of an external respiration sensor. It then converts them to a stable, responsive (<30ms) trigger signal, allowing **non-invasive, synchronized, lung protective ventilation strategies** using EVE-nEO.

Advanced Sensor Technology Options

Optional integrated MASIMO® technology Rainbow SET provides measurements; **Waveform Capnography EtCO₂**, mainstream or sidestream operation, SpO₂ Pulse Oximetry SpHB, SpCO, PVI, PI, Spmet, SpOC sensors & functionality.

Consumable Options

We supply: breathing circuits, flowsensors, expiratory valves, filters, nebuliser, cannula and nCPAP EasyFlow





Technology made in Germany
Supported in The United Kingdom



EVE-nEO Technical Specification:

Ventilator Innovation

General:

Patient groups: Pre-term Neonate/Infant *{optional Adult mode}*
Classification: IIb According to 93/42/EEC
Dimensions: 360 x 320 155 [w x h x d]
Weight: ~6.0 kg

Power Supply:

Mains: 100 - 240 V AC, 50 - 60 Hz
Battery: 24 V DC, 4 hours
Battery life: 8 hours with Hot swap battery back-up pack
Recharge time: Battery packs from empty 1 to 2 hours
*Docking station with nurse call/alarm [EVE-IN]
Optional: Mobile Stands, Vehicle mount EVE [24 V DC]
Helicopter mount EVE [12-28 V DC]*

Gas/Oxygen Supply:

Air Flow Rate: Integrated turbine [Peak flow > 200 l/min]
High Pressure O2: 2.8 to 6 bar + 0.5 bar
Low Pressure O2: 0 to 1.5 bar

Ventilation modes:

Invasive and Non-invasive ventilation
PC-CMV, PC-SIMV, PC-ACV, PC-ACV+*, CPAP,
CPAP backup, DUOPAP, O₂ Therapy, nCPAP,
nPC-CMV, nPC-SIMV, VC-CMV, VC-SIMV
nDUOPAP [*optional]

Support Modes: PSV [Pressure Support Ventilation],
PRVC [Pressure Regulated Volume Control],
ETT Tube Compensation

Manoeuvres: Inspiration hold, SpHb, Aerosol, Nebuliser
Pre-oxygenation, O₂ Flush, High Flow O₂ Therapy

Fast-track control keys: Neonate > Infant {optional Child/Adult mode}

Display TOUCH-TFT: 8.4 inch Colour Screen, Resolution 1024 x 786

Interface-options: Ethernet, RS232, SD Card, Nurse call, Bluetooth

Alarms Selection:

PAW high/low, Occlusion, MV high/low, Apnoea,
f high, PEEP high/low, Leakage, VT high/low,
Pressure limit, technical alarms, gas alarms, EtCO₂
alarms, battery1 alarms, battery2 alarms,
power supply. Optional Masimo SET alarms

Optional Accessories:

EVE Ventilator Mobile Stands, O₂ Carrier,
Protective Bags [Consumables & Ventilator]

Sensors FiO₂: Electrochemical oxygen cell [EVE-nEO]

Optional-Flow/Volume: Pneumotachograph PNT-B, Disposable
Neonate/Infant/Paed Adult

Optional Trigger: *External Abdominal Trigger sensor
0.2 - 15 Arb, Res 0.1 [pre-term neonate/infants]*

Optional EtCO₂: *EtCO₂ Masimo sensor [Mainstream or Sidestream]*

Optional SpO₂: *Masimo rainbow® SET [SpO₂, Pulse, PI, PVI, SpHb,
Spmet, SpCO, SPOC]*

Parameters:

Loops: V(P), V'(V), V'(P)
Trend display: 28 trends adjustable
Trend duration: 1hr, 6hr, 12hr, 24hr, 72hr
Curve display: P(t), V(t), V'(t), CO₂ (t), EArb(t), Plethysmography
Trends: Pplat, Ppeak, Pmean, PEEP, VTe, VTespon, Vtleak
MVE, MVespon, ftotal, fspon, V'min, I:E,
Resistance (R), Compliance (C) RSB, O₂,
Optional values: EtCO₂, SpO₂, Pulse, PI, PVI, Spmet, SpHb, SpCO, SPOC
Respiration Frequency: f 1 to 150 l/min
Tinsp: Inspiration time 0.2 to 30 seconds
Texp: Expiration time 0.2 to 30 seconds
Tidal volume: 2 to 250 ml [Neonates 2 to 50, Infant/Paediatric 20
to 250 ml. [Optional Adult mode 200-2000 ml]
IE Ratio: 1:150 ... 150:1
PEEP: 0 to 25 mbar
Pinsp: 6 to 55 mbar
△ Psupp: 1 to 55 mbar
Ramp time: 0.06 to 30 seconds
Trigger Flow: 0.2 to 15 l/min
Expiratory Trigger: From 5 to 70% of inspiratory flow
Apnoea: Apnoea duration 1 to 60 seconds
Flow: High Flow O₂ & O₂ therapy 1 to 60 l/min
O₂/FiO₂: Adjustable from 21% to 100%
Patient circuit: User selectable from approved circuits;
Dual Limb with expiratory valve and flow sensor
Interoperability: Fisher Paykel Humidification systems & circuits
Tube Compensation: 0 to 100% >> Tube 2 to 12 mm
CPAP: 0 to 25 mbar
EtCO₂: Waveform Capnography display and numerical end
tidal values
Op.Temperature: Operating temperature 0 °C to +40 °C
Store.Temperature: Storage temperature -20 °C to +50 °C
Humidity: Relative humidity 5 - 95% RH [non condensing
Warranty: EVE ventilator [24 months]; consumables and dis-
posables are sold with shelf-life
Protection Class: II according to IEC 60601-1, 93/42 EEC Directive
Class IIb, Device Water/Dust rated to IP44
Applicable Standards: DIN EN: IEC 60601-1, IEC 601-1-2, 794-3, 1789 > DIN
EN ISO: 14971, 80601-2-12, RTCA/DO 160G
Order Code: EVE-nEO Base [ST 107061420]

For devices, accessories and consumable options please contact MEDACX
to obtain a detailed quotation.

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Technology you can trust