Technology made in Germany
Supported in The United Kingdom

STEPHAN®
Innovators in Lung Ventilators since 1978

EVE-TR

The innovative transport respiratory system for Infants, Paediatrics & Adults

Infant, Paediatric & Adult Intensive Care / Transportable Ventilator

- Tidal Volume: Vt 20mL to 2000mL
- Invasive & Non-Invasive ventilation Pressure & Volume modes
- Electronic Oxygen mixing 21-100% + Pre-oxygenation modes
- High Flow 02 Therapy 2 to 60LPM
- In-built Turbine & 8 hours Battery + Hot Swap packs
- Independant of air supply and power during transfer/ transport use

bsi ISO 9001 Quality Management Systems CERTIFIED FS 580431

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Technology you can trust

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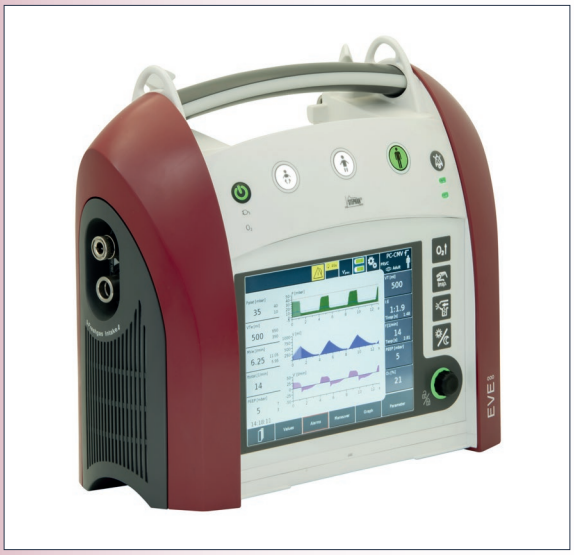
EVE-TR when every breath counts

Ventilator Innovation

EVE-TR delivers Intensive/Critical Care ventilation performance combined with lightweight compactness and portability, its designed for pre-hospital, emergency transfer/transport use.
With invasive and NIV ventilation modes & tidal volumes starting as low as 20ml up to 2000ml...



Immediately ready for use

Safe ventilation in 70 seconds from power-on and device safety self tests. After a short selftest, **EVE-IN** 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-TR** 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 patient's individual needs.**

Easy & intuitive operation

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

Innovative Ventilation Technology

EVE-IN 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.

Advanced Ventilation modes

Non-invasive and invasive pressure and volume modes
Infant, Paediatric, Adult modes: PC-CMV, PC-SIMV, PC-ACV, PC-ACV+, VC-CMV, VC-SIMV, CPAP, CPAP-backup DUOPAP, nPC-CMV, nPC-SIMV, nDUOPAP, nCPAP and 0_2 Therapy modes incl High Flow 1 to 60 LPM
Pre-oxygenation 02 Flush, ETT Tube Compensation, Nebulise mode, advanced Pressure Support PSV and Volume Guarantee PRVC modes

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 ~5.9 kg.

EVE-IN is optimally suited for mobile use anywhere on hospital transfer beds, emergency trolleys and ambulance vehicles and helicopters by means of the versatile mounting systems.

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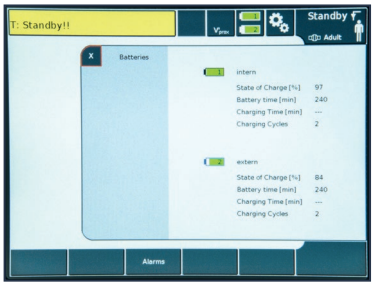
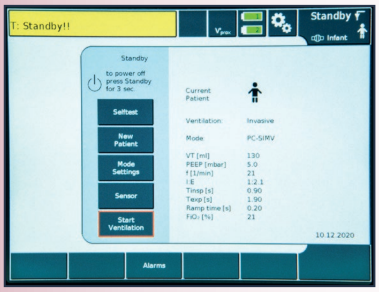
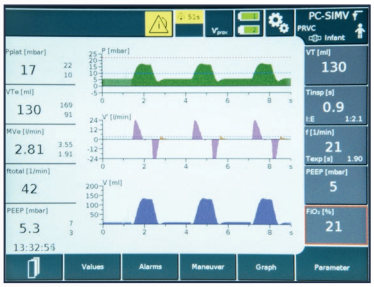
Ventilator Innovation

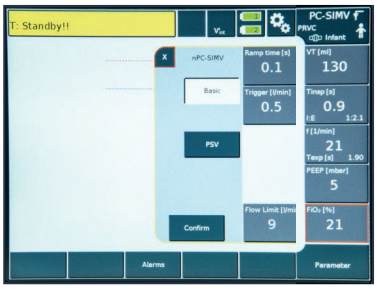
User Configurable Displays & Screens

EVE-TR allows the User to select three different configurable curves and display simultaneously, plus 15 different ventilation parameters can be selected and displayed via 3 toggle screens. Intuitive alarms and loops, curves and trends. Data logbook and Battery status display.





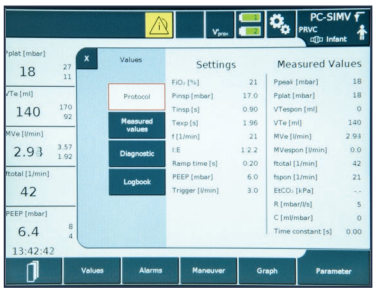




Accurate patient measurements

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.

Integrated oxygen measuring EVE-TR is consumption free and abrogates need for exchange of 0_2 cell.



Advanced Sensor Technology Options

Optional integrated MASIMO® Rainbow SET sensors & measurements:
Waveform Capnography EtC0$_2$ mainstream or sidestream. ***Sp02 Pulse Oximetry***, SpHB, SpCO, PVI, PI, Spmet and SpOC measurements.
Plus a range of reusable or disposable Sp02 sensors for Adults, Childrin and Infants.

Accessory Options

Mobile brackets, mobile docking station
docking with power supply, 02 bottle bracket
02 Bottle transport holder.
RS232 Data link and Ethernet communications

Consumable Options

Breathing circuits [single, dual limb], filters
flowsensors, expiratory valves, nebuliser sets
C02 sampling lines, nasal cannula & nCPAP masks

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EVE-TR Technical Specification:

Ventilator Innovation

General:

Patient groups:	Infant, Paediatric & Adult *{optional neonate mode}*
Classification:	IIb According to 93/42/EEC
Dimensions:	360 x 320 155 [w x h x d]
Weight:	~5.9 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
Optional:	*Docking station with nurse call/alarm [EVE-IN]* *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 02:	2.8 to 6 bar + 0.5 bar
Low Pressure 02:	0 to 1.5 bar
Ventilation modes:	Invasive and Non-invasive ventilation
	PC-CMV, PC-SIMV, PC-ACV, PC-ACV+*, CPAP, CPAP backup, DUOPAP, 0_2 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, 02 Flush, High Flow 02 Therapy
Fast-track control keys:	Infant, Adult/large child {optional neonate mode}
Display TOUCH-TFT:	8.4 inch Colour Screen, Resolution 1024 x 786
Interface:	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, $EtC0_2$ alarms, battery1 alarms, battery2 alarms, power supply. Optional Masimo SET alarms
Optional Accessories:	EVE Ventilator Mobile Stands, 02 Carrier, Protective Bags [Consumables & Ventilator]
Sensors Fi02:	Integrated Oxygen measuring [EVE-TR]
Flow/Volume:	Pneumotachograph PNT-B, Disposable Neonate/Infant/Paed Adult
Optional Trigger:	*External Abdominal Trigger sensor [with Neo mode] 0.2 - 15 Arb, Res 0.1 [pre-term neonate/infants]*
Optional EtC02:	*EtC02 Masimo sensor [Mainstream or Sidestream]*
Optional Sp02:	*Masimo rainbow® SET [Sp02, 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), $C0_2$ (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, 0_2,
Optional values:	$EtC0_2$, $Sp0_2$, Pulse, PI, PVI, Spmet, SpHB, SpC0, 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:	20 to 2000 ml Infant/Paediatric/Adult [Optional neo mode 2-50 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 02 & 0_2 therapy 2 to 60 l/min
$0_2/Fi0_2$:	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
$EtC0_2$:	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 disposables 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-TR Base [ST 107061400]

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

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