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## EVE:TR Pre-Hospital IC Transport Ventilator

Intensive Care pre-hospital emergency ventilation performance combined with lightweight compactness, rugged design for pre-hospital & intra-hospital transfer/transport, Military use with ..Fast 'safe-start' ventilation buttons

INTENSIVE CARE TRANSPORT VENTILATOR



*Patient range Adults to Infants {Vt: 20ml to 2000ml}  
Patient Ventilation without compromise*

- |  |   |  |   |
|--|---|--|---|
| <p><b>All Patient use</b><br/>Adults to Infants<br/>Opt {Neonate mode}</p>                 | <p><b>Capnography &amp; SpO<sub>2</sub></b><br/>Optional: Waveform EtCO<sub>2</sub><br/>SpO<sub>2</sub>, SpCO, SpHB</p> | <p><b>Optimised Power</b><br/>12hrs w/hot swap battery<br/>+Docking station charging</p> | <p><b>Fully Adjustable Oxygen</b><br/>Adjustable O<sub>2</sub> mixing<br/>21 to 100% + HiFlow O<sub>2</sub></p> |
| <p><b>Robust &amp; Lightweight</b><br/>Rugged design, compact<br/>&amp; portable ~6 kg</p> | <p><b>8.4 inch Touch Screen</b><br/>Configurable display, loops<br/>alarms, curves &amp; trends</p>                     | <p><b>Independent Air Supply</b><br/>Integrated air turbine</p>                          | <p><b>Patient Data Transfer</b><br/>Transfer capability for<br/>patient data, events</p>                        |





INTENSIVE CARE TRANSPORT VENTILATION

# EVE:TR when every breath counts

Ventilation Innovation



### With 'FAST Safe-Start' control buttons

Dedicated fast safe-start for ADULTS, to INFANTS [Optional mode for NEONATES]

### When every second counts

EVE ensures rapid deployment for all patient types safely without compromise.

### Immediately ready for use

Safe ventilation <70 seconds from power-on and ALL device self tests.

### Ventilation at the push of a button

In developing EVE priority was given to immediate operational readiness. With the push of only one button the suitable ventilation scenario [adults, infants and optional pre-term/neonates] is selected and easily adjustable. Tidal Volumes from 2ml to 2000 ml .....with EVE there is no patient compromise.

### State-of-the-art Ventilation and Sensor Technology

EVE may be used for both invasive and non-invasive ventilation utilising state-of-the-art ventilation technology. All necessary ventilation modes for emergency and intensive care are included therefore allowing optimal patient treatment regardless of body weight. With integrated MASIMO® technology all optional Rainbow parameters are available.

Waveform Capnography EtCO<sub>2</sub> can be included as a standard feature and ensures full compliance to the ERC/UK Resuscitation ALS, NAP4 & Critical Care guidelines on use of waveform capnography.

Other optional sensor technologies can be integrated on requestsuch as; non-invasive SpCO measuring method for the diagnosis of carbon monoxide poisoning.



### Compact, flexible, mobile

With its robust compact size, functional design and at a weight of 6 kg, EVE is optimally suited for mobile use. A range of diverse brackets allow easy and rapid integration in road vehicles and fixed and rotary wing aircraft. Meets EN794, EN1789 ISO 10651 & RTCA DO 160G standards.



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# EVE:TR2 when every breath counts

Ventilation Innovation

## Easy & intuitive operation

Intuitive operational interface via the high definition 8.4 inch TFT full colour touch screen and rotating knob. EVE ensures rapid deployment and delivers detailed monitoring, configurable displays, alarms and with the benefit of loops, curves and trends. Plus has NIGHT Vision mode.



INTENSIVE CARE TRANSPORT VENTILATION

## Advanced Ventilation modes

Non-invasive and invasive pressure and volume ventilation modes: PC-CMV, PC-SIMV, PC-ACV, PC-ACV+, VC-CMV, VC-SIMV, CPAP, CPAP backup, DUOPAP and optional Neonate/NIV ventilation modes; nPC-CMV, nPC-SIMV, nDUOPAP and nCPAP.

**High Flow/O<sub>2</sub> Therapy [60L/min]**, advanced Pressure Support [PSV], Pressure Regulated Volume Control [PRVC], Backup modes and dedicated buttons for Inspiration hold, SpHb, Nebulise and Pre-oxygenation O<sub>2</sub> Flush & +ETT Tube Compensation.

## EVE > ICU performance in pre-hospital emergency care

### Independent of Air Supply & Power

With internal turbine and rechargeable batteries.

**Battery range of 8 hours.**

**Additional '4 hour hot swap' battery back-up packs** ensure useful life can be extended to suit operating conditions.

EVE is virtually independent of gas and power supply.



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# EVE:TR

## Technical Specifications: EVE-TR2

INTENSIVE CARE TRANSPORT VENTILATION

### General

Patient group:	ADULT & INFANT, [Optional Pre-term NEONATE]
Classification:	IIb According to 93/42 EWG
Dimensions:	390 x 340 x 140 [w x h x d]
Weight:	~6 kg
Power Supply:	Mains to 24VDC Power supply Unit
Mains:	100- 240 V AC, 50- 60 Hz
Battery:	24 V DC, 8 hours
Battery life:	8 hours with Hot swap battery back-up
Recharge time:	Battery packs from empty 1 to 3 hours
Ready to Ventilate:	EVE is ready to ventilate from power-on and completion of compliance self-tests in ~70 secs
Device Self-Tests:	Automatic device self-tests at 'each' power-on ensure full compliance.
Optional Charging/ Docking Stations:	Docking station, Trolley Mount/Stand Vehicle mount EVE-TR [24 V DC] Aircraft/Helicopter mount EVE-TR [12-28 V DC]
Gas Supply Air:	Integrated turbine [Peak flow > 230 l/min]
High Pressure O2:	2.7 to 6 bar + 0.5 bar
Low Pressure O2:	0 to 1.5 bar
Oxygen 93:	Oxygen Concentrator compatible [Military use]
Device Self-Tests:	Automatic device self-tests at 'each' power-on ensure full compliance.
Ventilation Modes:	Invasive and Non-invasive (Pressure & Volume) PC-CMV, PC-SIMV, PC-ACV, {PC-ACV+} <sup>1</sup> , VC-CMV, VC-SIMV, CPAP, CPAP backup, DUOPAP, nCPAP, nPC-CMV, nPC-SIMV, nDUOPAP, <sup>1</sup> {Optional}
Modifications:	Pressure Support [PSV], Pressure Regulated Volume Control [PRVC] ETT Compensation
Manoeuvres:	Inspiration hold, SpHb, Aerosol, Nebuliser Pre-oxygenation, O2 Flush, High Flow O2 Therapy
Fast-track keys:	Adults, Infant/Paed, {Optional Neonate}
Display TOUCH-TFT:	8.4 inch Colour Screen, Resolution 1024 x 786 NIGHT Vision Tactical display and alarm mode
Interface:	Ethernet, RS232, SD Card, Nurse Call, Bluetooth
ALARMS [small selection]:	PAW high/low, Occlusion, MV high/low, Apnoea, f high, PEEP high/low, VT high/low, Leakage, Pressure limit, technical alarms, Gas alarms, EtCO2 alarms, battery alarms, power supply [see manual for FULL Alarm list]
Sensors	Flow: Reusable PNT-D Adults, PNT-B Neonates Disposable Neonate, Infant & Adult
	FiO2: Oxygen cell or Consumption free measuring
Optional EtCO2:	End tidal CO2 select: either Mainstream or Sidestream
Optional Sensors:	SpO2, Pulse, PI, PVI SpHB, Spmet, SpCO, SPOC
Optional Accessories:	Mobiles stands, O2 Carrier, St. steel basket Protective Bags [softshell], Peli case [Hardshell]

### 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), Optional CO <sub>2</sub> (t), Plethysmography
Measured values:	Pplat, Ppeak, Pmean, PEEP, VTe, VTespon, Vtleak MVe, MVespon, ftotal, fspn, Tinsp, Texsp, V'max, V'min, I:E, Resistance (R), Compliance (C) RSB, FiO <sub>2</sub> /O <sub>2</sub> (EVE-IN), O <sub>2</sub> (EVE-TR)
Optional values:	EtCo2, SpO2, Pulse, PI, PVI, Spmet, SpHB, SpCO SPOC
Respiratory rate:	1 to 150 bpm
Tinsp:	Inspiration time 0.2 to 30 seconds
Texp:	Expiration time 0.2 to 30 seconds
Tidal volume:	20 to 2000 ml [Infant 3kg to Adults 200+kg] Optional {Neonate Mode 2ml to 50ml}
IE Ratio:	1:150 ... 150:1
PEEP:	0 to 25 mbar
Pinsp:	6 to 55 mbar
r Pspup:	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
O <sub>2</sub> :	High Flow O <sub>2</sub> therapy & O <sub>2</sub> therapy 2 to 60 l/min
Oxygen FiO <sub>2</sub> :	Adjustable from 21% to 100%
Tube Compensation:	0 to 100% >> Tube 2 to 12 mm
CPAP:	0 to 25 mbar
EtCO <sub>2</sub> :	Optional Waveform Capnography display and numerical end tidal values
Patient Circuits:	Consumable options: Reusable or Disposable User selectable from approved circuits; Double or single hose, non re-breathing with expiratory valve and flow sensor
Op.Temperature:	Operating temperature min/max -10 °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 MDD Directive Class IIb, Device Water/Dust rated to IP44
Applicable Standards:	ISO 10651-3:1997, EN 1789:2010, EN794-3:2010 RTCA/DO 160G:2010, ISO, 80601-2-12, DIN EN: IEC 60601-1:2007, IEC 601-1-2:2012
Order Codes:	EVE-TR2 MoD Military

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