



EVE 

TECHNICAL DATA

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General	
Patient group: Adults, Children, Neonates	
Classification	
according to 93/42 EEC II b	
Dimensions	360 x 320 x 155mm (W x H x D)
Weight	6.3 kg (without removable battery),
	6.9 kg (with removable battery)
Power supply	
Voltage	100-240 V AC, 50-60 Hz
Power	150 W max.
Consumption	1.667 - 0.625 A
Battery	25.2 V DC, 3.12 Ah, approx. 4 hours
	(8 hours including removable battery)
Charging time: approximately 4.5 hours (internal), approximately 6 hours (removable battery)	
Connection	100 - 240 V AC, +/- 10%
Connection	
helicopter/ambulance 12 - 28 V DC (nominal),	
includes tolerance 10.2 - 30.3 V DC	
Gas supply	
AIR	Integrated turbine, peak flow > 230 l/min.
	Comp. Leak > 50 l/min.
O2 /HPO	2.7-6 bar + 0.5 bar, HPO/LPO mode,
	Compatible with oxygen 93
O2 /LPO	0 - 1.5 bar / 0.5 - 5 l/min.
Protection class IP 44	
UMDNS code 17-429 (EVEIN/NEO), 18-098 (EVETR),	
GMDN code 42411 (EVEIN/NEO), 36289 (EVETR)	
Modes of operation	
Invasive and non-invasive ventilation	
Ventilatory modes	
Controlled volume VC-CMV, VC-S-IMV	
Controlled pressure (invasive/non-invasive)	
PC-CMV, nPC-CMV, PC-ACV, nPC-ACV, PC-ACV+,	
nPC-ACV+, PC-S-IMV, nPC-S-IMV, DUOPAP,	
nDUOPAP, CPAP, nCPAP, CPAP B/U,	
High Flow O2 Therapy	
Options of	
ventilation	PSV, PRVC, TET compensation
Maneuvers	Inspiratory Pause, SpHb, Aerosol,
	Preoxygenation, P0.1
Control buttons	
Quick access Adults, Children, Neonates	

Ventilation settings	
Pinsp	1 ... 95 mbar (EVEIN), 1 ... 55 mbar (EVETR, EVENEO)
Palto (DUOPAP) 1 ... 95 mbar (EVEIN), 1 ... 55 mbar (EVETR, EVENEO)	
PEEP	0 ... 35 mbar
ÿ Psupp	1 ... 55 mbar
Insp. time	0.15 ... 30 sec. (NEO-Mode),
	0.2 ... 30 sec. (Ped./Adult-Mode)
Special time	0.15 ... 30 sec. (NEO-Mode),
	0.2 ... 30 sec. (Ped./Adult-Mode)
Frequency resp.	1 ...200 bpm (NEO-Mode),
	1 ...150 bpm. (Ped./Adult-Mode)
I:E	1:150 ... 150:1 (Adult Mode)
	1:200 ... 200:1 (NEO/Ped.-Mode)
Flow trigger 0.2 ... 15 l/m	
External trigger	
(EVENEO)	0.2 ... 15 Arb
Trigger	
expiratory	5 ... 70%
Time of	
ramp	0.06 ... 30 sec.
FiO2	2 1 ... 100%
Apnea time 4 ... 60 sec.	
Tidal volume 50 ... 2,000 ml (VCV)	
Tidal volume 2 ... 2,000 ml (PRVC)	
O2 Therapy	
High Flow O2 2 ... 60 l/min.	
Preoxygenation	
FiO2 Concentration 21 ... 100% absolute, 1 ... 79% relative	
Time of	
Preoxygenation	10 ... 180 sec.
Nebulizer outlet	
Outlet pressure 1.5 bar	
Nebulizer flow rate: approx. 5 l/min (at 5 bar oxygen inlet pressure)	
Nebulization	100% O2 concentration
Nebulizing time: 5...30 min.	
Tube compensation	
other	2 ... 12 mm
Compensation	0 ... 100%
Inspiratory pause max. 15 sec.	
Alarms (selection) High/Low PAW, Occlusion, High/Low MV, Apnea,	
high f, high/low PEEP, leaks, high/low VT,	
VT not reached, technical alarms, alarms	
gases	
Optional: CO2 alarms, MASIMO alarms	

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Parameters	
TIES	V(P), V'(V), V'(P)
Trend display. Up to 28 selectable trends.	
Duration	1h, 6h, 12h, 24h, 72h
P(t), V(t), V'(t) curve display, optional: CO2 (t), plethysmography	
Screen	Pplat, Ppico, Pmit, PEEP, VTe, VTespont,
of parameters	Vtlosses, MVe, MVespont, ftotal, fespont,
	Tinsp, Texsp, V'max, V'min, I:E, resistance (R),
	compliance (C), RSB, FIO2 /O2
	Optional: EtCO2 , SpO2 , Pulse, PI, PVI, Spmet, SpHB, SpCO, SpOC
Pressure	
PPico	-20 ... 99 mbar
PPlat	-20 ... 99 mbar
PMed	-20 ... 99 mbar
PEEP	-20 ... 99 mbar
Volume	
Expiratory flow 0 ... 3,000 ml	
Inspiratory flow 0 ... 3,000 ml	
Expiratory current	
(Vtespont.)	0 ... 3,000 ml
Volume of losses	
(Vtleak)	0 ... 5,000 ml
Minute volume	
(Mve)	0 ... 999 l/min.
Minute volume	
(Mvespont.)	0 ... 999 l/min
Flow	
Inspiratory flow -200 ... 200 l/min.	
Expiratory flow -200 ... 200 l/min.	
Time	
Tinsp	0 ... 60 sec.
Tesp	0 ... 60 sec.
Respiratory rate	
(ftotal)	0 ... 300 1/min
Respiratory rate	
(spontaneous)	0 ... 300 1/min
I:E ratio	1:150 - 150:1, 1:200 - 200:1
Apnea	0 ... 60 sec.
Diagnosis	
Resistance (R)	0 ... 1,000 mbar l/sec.
Compliance (C)	0 ... 650 ml/mbar
Responsiveness index	
fast surface	
(RSB)	0 ... 9,999 1/min xl
Constant	
of time	0 ... 20 sec.

Parameters	
Product Pressure	
Time (PTP)	0 ... 999 mbar x sec.
FIO2	0 ... 100%
O2	21 ... 100%
EtCO2	
Vol%	0 ... 90
mmHg	0 ... 12
kPa	0 ... 999
MASIMO® Parameters (Optional)	
Pulse	0 ... 239 bpm
PVI	0 ... 100%
PI	0.02 ... 20%
SpMet	0 ... 100%
SpCO	0 ... 100%
SpOC	0 ... 35 ml/dl
SpHb	g/dl
Screen	
8.4" TFT color touchscreen, 1024 x 768 resolution, anti-glare	
Interface	
SD / in combination with docking station: Ethernet,	
RS232, nurse call	
Sensors	
Flow/Volume	Single-use flow sensor for newborns, children and adults, Reusable flow sensor for newborns (PNT B), Reusable flow sensor for adults (PNT D), Electron flow sensor single-use/reusable for newborns and adults
FIO2	Electrochemical oxygen cell (EVEIN, EVENEO)
Optional	CO2 measurement , (main stream method) or side), Masimo rainbow® SET (SpO2 , pulse, PI, PVI, SpHb, Spmet, SpCO, SPOC)
Rules (excerpt)	
DIN EN: 794-3, 1789, 60601-1, 60601-1-2, DIN EN ISO: 14971, 80601-2-12, EVETR: RTCA/DO 160G, ISO 10651-3:1997	



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