



e500

AUTOMATIC TRANSPORT
VENTILATOR

o_two controlled[™]
ventilation

MULTIPLE MODES, COMPACT, LIGHTWEIGHT, EASY TO USE

The e500 ventilator ushers in a “new era” in controlled ventilation for resuscitation and patient transport!

These electronically controlled, pneumatically powered ventilators provide a range of ventilation solutions for resuscitation and transport in the pre-hospital and in-hospital healthcare professionals.

**LONG LASTING
BATTERY**
18h - 24h

ECONOMICAL
Low gas consumption

LIGHTWEIGHT
2.4 kg / 5.29 lbs



SIMPLICITY

The ventilation solutions offered by the e500 cannot be compared to any other products of its type. The units are self-contained and only require attachment to a regulated oxygen supply and a transport ventilation circuit for immediate use. The easily replaceable, long lasting (18 -24 hour) battery can be charged while inside the ventilator or can be removed for charging and quickly replaced by a fresh battery pack. The display lighting has adjustable brightness for easy visualization of the ventilator settings in any ambient light conditions. Designed for a range of patient sizes (from large adult to infant), the e500 comes in a very small and lightweight package.

SAFETY

The continuous monitoring of ventilation parameters ensures that the device is always fully functional and ready for immediate use. The wide range of both visual and audible alarms provides the healthcare professional with warnings of any changes in patient or device parameters. Correction of any alarm is simple to achieve due to the compact and easy to operate control layout. The Intuitive Patient Apnea Backup (IPAB) mode provides additional security for the spontaneously breathing patient on CPAP by automatically commencing ventilations should their inspiratory efforts cease.

FUNCTIONALITY

The simplicity of operation of the e500 provides controlled ventilation for both resuscitation and transport with the minimum of control adjustments required for simple patient set up. The range of Tidal Volumes and ventilation rates offered provide improved patient care for all resuscitation and transport situations in the pre-hospital and in-hospital setting. The inclusion of ventilation modes for “mask or protected airway CPR”, with visual and audible prompts, adds another dimension to the application of these products not found on other ventilators.

CONTROLLABILITY

The e500 provides an “ease of use” concept that is second to none. These products are designed to speed up and simplify the initiation of ventilations by simply choosing the rate/volume. There are no multiple screens to scroll through to establish patient ventilation parameters. The units have an initial, pre-set, start-up mode requiring only the selection of patient size to begin ventilation.

ECONOMY

In addition to the patient care benefits, the e500 ventilator provides excellent low gas consumption and an extremely long battery operating time. This assists in providing controlled ventilation to the patient over an extended period, making the e500 ventilator ideal for long transports where both electrical and oxygen supplies are always a critical concern.

SPECIFICATIONS

DEVICE CLASS PER MDD		II b
CLASSIFICATION PER IEC60601-1	Protection against electric shock	Class II
	Protection against electric shock	Type BF
	Protection against water	IP X4
POWER SOURCE		Compressed Oxygen, 45 to 87 PSI (3-6 Bar)
CIRCUIT CONTROL SOURCE		Electric
VENTILATION MODES		SIMV, CPAP, Mask CPR and Intubated CPR
TIDAL VOLUME/RATE (ML/BPM)		100/20, 150/20, 200/20, 250/20, 300/10, 350/10 400/10, 450/10, 500/10, 600/10, 650/10 ± (4ml + 15%) BTPS */ (± 10% or ± 1BPM)
MANUALLY TRIGGERED VENTILATION		Yes, set flow rate or pressure will be delivered during I time then Inspiratory hold
MAXIMUM INSPIRATORY HOLD TIME		6 sec.
I:E RATIO		1:2 (± 20%)
PEEP (cmH ₂ O)		0, 4, 5, 6, 7, 8, 9, 10, 12, 15, 18, 20 (± 10% or ± 2 cmH ₂ O)
CPAP (cmH ₂ O)		4, 5, 6, 7, 8, 9, 10, 12, 15, 18, 20 (± 10% or ± 2 cmH ₂ O)
FIO ₂ (%)		60 or 100 (± 15%)
PMAX (cmH ₂ O)		10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 80 (± 10% or ± 2 cmH ₂ O)
PMIN (cmH ₂ O)		0, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20 (± 10% or ± 2 cmH ₂ O)
TRIGGER SENSITIVITY (L/MIN)		3 L/min (± 10%) or 2 cmH ₂ O below baseline in CPAP mode only
APNEA BACK UP TIME (SEC.)		10-60 (± 0.5s)
BATTERY OPERATING TIME AT ROOM TEMPERATURE (HRS.)		> 18 hrs for default settings (Data obtained using fully charged new battery)
ALTITUDE COMPENSATION		up to 4000m (13000 feet)
BATTERY HOT SWAP		No
BUILT-IN BATTERY CHARGER		Yes
AC/DC POWER SUPPLY		100-240 VAC/ 19 VDC, 4.74 A
PATIENT CIRCUIT		O-Two Electronic Ventilator Circuit
MOUNTING BRACKET		Mounting brackets for road ambulance and mobile setting
DISPLAY		4.3" Color TFT
LIVE MONITORING		Mve, Vte, Paw(AV), PAW(Peak), Rate (bpm), Battery level
REAL TIME WAVEFORM		Pressure or Flow
DAY/NIGHT DISPLAY MODE		Yes
PARAMETER SETTINGS		Control Selection Knob
LOCK KEY FUNCTION		Yes
PAUSE FUNCTION		Yes
NOISE LEVEL IN NORMAL USE		Less than 65 dBA
ALARMS (VISUAL AND AUDIBLE)		Gas Supply Pressure, Airway Pressure limits, Battery status, APNEA, Breathing Circuit Integrity, Leakage
AUDIBLE SILENCE		Yes, 120 second max
DIMENSIONS (MM)		250 x 200 x 155
WEIGHT (KG/LBS) WITH/WITHOUT BATTERY		2.4/1.77 5.29/3.9

INTERNAL VOLUME OF THE COMPLETE RESPIRATORY SYSTEM (REUSABLE AND DISPOSABLE)			approx. 690 ml without mask approx. 800 ml with mask
DEAD SPACE OF PATIENT VALVE WITH ELBOW COMPLIANCE (DISPOSABLE) HOSE SYSTEM			Approx. 35 ml 16.6 ml/kPa
RESISTANCE OF PATIENT HOSE SYSTEM (INHALATION AND EXHALATION):			Less than 6 cmH ₂ O at 60 l/min & Less than 6 cmH ₂ O at 30 l/min
ENVIRONMENT CONDITION	Ventilator	Operating	- 18°C to +50°C, Rh: 15% to 95%
		Storage	- 40°C to +60°C, Rh: 15% to 95%
	Battery Pack	Charge	0°C to +40°C
		Discharge	- 20°C to +60°C
	Patient Circuit	Storage	- 20°C to +35°C, low humidity and no corrosive gas atmosphere.
		Operating	- 18°C to +50°C, Rh: 15% to 95%
	Storage	- 20°C to +60°C, Rh: 15% to 95%	

* BTPS: Volume measurements corrected to Body temperature 37°C and Barometric pressure 101.3Kpa under saturated conditions (100% Humidity). Note: Measurement uncertainty: 5% for volume parameters and 6% for pressure parameters.

ORDERING INFORMATION

01EVE500	e500 - Electronic Automatic Transport Ventilator c/w Disposable Patient Circuit, Resuscitation Mask, 6 Foot Supply Hose*, Calibrated Test Lung and Power Supply (Specify Country of Use)	Each
01CV8030-CS	O-Two Medical Single-Use Electronic Transport Ventilator 6 Foot Circuit with Protective Sleeve. For e500, e600 and e700	Case/10
01CV7035	O-Two Medical "e" Series Ventilator "Smart Mount" Multi-configuration Mounting Bracket (Ambulance Cot, Hospital Stretcher, Bed, Roll Stand)	Each
01CV8040-CS	O-Two Medical "e" Series Ventilator Replacement Intake Filter/Cover	Case/10
01TA1852	O-Two Medical "e" Series Ventilator Replacement 1 Litre Test Lung with Compliance Restrictor	Each
01FV4303-DISS	O-Two 6 Foot (1.85 Meter) O2 Supply Hose with 9/16 DISS Nut and 9/16" DISS Nut Ventilator Connection	Each
01CV9100	O-Two Medical "e" Series Replacement Lithium Ion Replacement Battery	Each
01CV0105	Power Supply - eSeries	Each
01CV0106	Power supply cord for eSeries power supply	Each
01CV0102-EU	Power supply cord for eSeries power supply	Each
01CV7050	eSeries Automatic Transport Ventilator Carrying Case - With sling-style shoulder strap (specifically designed for eSeries)	Each
01TA7650	Leak test kit for e-vents	Each

THIS PRODUCT HAS A TWO YEAR WARRANTY AGAINST MANUFACTURERS DEFECTS.