

# e700

*Automatic Transport Ventilator*



## MULTIPLE MODES, COMPACT, LIGHTWEIGHT, EASY TO USE

The e700 ventilator is a high-performance device, electronically controlled and pneumatically powered, designed for both invasive and non-invasive ventilation. It provides precise control and reliability in critical situations, making it ideal for prehospital and hospital use. With its advanced ventilation modes, the e700 is versatile and suitable for a wide range of patient needs.

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

**ECONOMICAL**  
Low gas consumption

**LIGHTWEIGHT**  
2.4 kg / 5.29 lbs



### SIMPLICITY

The e700 ventilation solutions stand out for their unique design. These self-contained units require only a connection to a regulated oxygen supply and a transport ventilator circuit for immediate use. With a long-lasting, easily replaceable battery providing 18 to 24 hours of autonomy, it can be recharged within the ventilator or quickly swapped out. The display lighting is adjustable for optimal visibility in any lighting conditions. Designed for different patient sizes, from adults to newborns, the e700 is compact and lightweight.

### SAFETY

Continuous monitoring of ventilation parameters ensures the device is always operational and ready for immediate use. A wide range of visual and audible alarms alerts healthcare professionals to changes in patient or device parameters. Corrections are easily made thanks to a compact and user-friendly control layout. The Intuitive Patient Apnea Backup (IPAB) mode enhances safety for spontaneously breathing patients on CPAP by automatically initiating ventilation if their inspiratory effort ceases.

### FUNCTIONALITY

The e700 delivers sophisticated ventilation capabilities with ease of use, meeting resuscitation and transport needs with minimal patient setup adjustments. Its range of ventilation modes ensures a level of care comparable to intensive care units, while remaining simple to operate across various patient care and transport scenarios. Unique features such as ventilation modes for CPR with a mask or protected airway, accompanied by visual and audible cues, further enhance the versatility and applicability of these ventilators, setting them apart from others on the market.

### CONTROL

Operating the e700's controls ensures unmatched simplicity. These products are designed to speed up and simplify even the most complex ventilation setups. There is no need to navigate through multiple screens to set patient ventilation parameters. The device features a preset startup mode, requiring only the selection of the patient size to begin ventilation.

### ECONOMY

In addition to patient care benefits, the e700 ventilator stands out for its low gas consumption and extremely long battery life. This ensures controlled ventilation over extended periods, making it an ideal choice for prolonged transports where power and oxygen supply are critical considerations.

# SPÉCIFICATIONS

|                                             |                                     |                                                                                                                                   |
|---------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| MDD CLASS                                   |                                     | II b                                                                                                                              |
| IEC60601-1 CLASSIFICATION:                  | Electrical Shock Protection         | Class II                                                                                                                          |
|                                             | Type of Electrical Shock Protection | Type BF                                                                                                                           |
|                                             | Water Protection                    | IP X4                                                                                                                             |
| POWER SOURCE                                |                                     | Compressed oxygen, 45–87 PSI (3–6 Bar)                                                                                            |
| CIRCUIT CONTROL SOURCE                      |                                     | Electrical                                                                                                                        |
| VENTILATION MODES                           |                                     | A/C (VCV, PCV), SIMV with PSV, BiLEVEL with PSV, CPAP with PSV, CPR with mask, and intubated CPR                                  |
| VENTILATORY SUPPORT (PSV)                   |                                     | PSV: 0, 4-35 cmH <sub>2</sub> O (± 10% or ± 2 cmH <sub>2</sub> O)                                                                 |
| RESPIRATORY RATE                            |                                     | 5 – 60 (± 10% or ± 1BPM)                                                                                                          |
| MINUTE VOLUME                               |                                     | Calculated                                                                                                                        |
| TIDAL VOLUME (ML)                           |                                     | 50 – 2000 ± (4ml + 15%) BTPS *                                                                                                    |
| TIDAL VOLUME IN CPR MODE (ML)               |                                     | 50 - 1400 ± (4ml + 15%) BTPS *                                                                                                    |
| MAXIMUM FLOW DELIVERED (L/MIN)              |                                     | 100 – 120                                                                                                                         |
| MANUALLY TRIGGERED VENTILATION              |                                     | Yes; set flow or pressure delivered during inspiration followed by an inspiratory pause                                           |
| MAXIMUM INSPIRATORY PAUSE TIME              |                                     | 6 sec.                                                                                                                            |
| I:E RATIO                                   |                                     | 1:4 – 3:1 (± 20%)                                                                                                                 |
| PEEP (CM H <sub>2</sub> O)                  |                                     | 0,4-20 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                          |
| PSV                                         |                                     | OFF, 4 – 35 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                     |
| CPAP (CM H <sub>2</sub> O)                  |                                     | 4-20 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                            |
| O <sub>2</sub> (%)                          |                                     | 60 or 100 (± 15%)                                                                                                                 |
| P <sub>MAX</sub> (CM H <sub>2</sub> O)      |                                     | 10 – 80 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                         |
| P <sub>MIN</sub> (CM H <sub>2</sub> O)      |                                     | 0 – 20 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                          |
| PCV (CM H <sub>2</sub> O)                   |                                     | 4-50 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                            |
| TI (SEC.)                                   |                                     | 0.2 – 9 (± 20%)                                                                                                                   |
| TRIGGER SENSITIVITY (L/MIN)                 |                                     | 1 -15, or 2 cmH <sub>2</sub> O du débit maximal                                                                                   |
| INSPIRATORY PRESSURE (CM H <sub>2</sub> O)  |                                     | 4-50 (± 10% or ± 2 cmH <sub>2</sub> O)                                                                                            |
| PRESSURE-BASED END OF VENTILATION THRESHOLD |                                     | 20% - 80% of max. Flow                                                                                                            |
| APNEA BACKUP TIME (SEC.)                    |                                     | 10-60 (± 0.5s)                                                                                                                    |
| BATTERY AUTONOMY AT ROOM TEMPERATURE (HRS.) |                                     | >18 hours (default settings, fully charged new battery)                                                                           |
| ALTITUDE COMPENSATION                       |                                     | Up to 4000 m (13,000 ft)                                                                                                          |
| HOT-SWAP BATTERY REPLACEMENT                |                                     | 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 SUPPORT                            |                                     | Ambulance and mobile environment mounting brackets                                                                                |
| DISPLAY                                     |                                     | 4.3" color TFT                                                                                                                    |
| REAL-TIME MONITORING                        |                                     | Mve, Vte, Paw (Ave), Paw (Peak), Frequency (BPM), Battery Level                                                                   |
| REAL-TIME CURVE                             |                                     | Pressure or Flow                                                                                                                  |
| DAY/NIGHT DISPLAY MODE                      |                                     | Yes                                                                                                                               |
| PARAMETER SETTINGS                          |                                     | Selected via control knob                                                                                                         |
| KEY LOCK FUNCTION                           |                                     | Yes                                                                                                                               |
| PAUSE FUNCTION                              |                                     | Yes                                                                                                                               |
| NORMAL OPERATION SOUND LEVEL                |                                     | <65 dBA                                                                                                                           |
| ALARMS (VISUAL & AUDIBLE)                   |                                     | Gas supply pressure, Airway pressure limits, Minute volume limits, Battery status, Apnea, Circuit integrity, Leak and obstruction |
| AUDIBLE SILENCE                             |                                     | Yes, max. 120 seconds                                                                                                             |
| DIMENSIONS (MM)                             |                                     | 250 x 200 x 155                                                                                                                   |

|                                                                           |                 |                      |                                                                          |
|---------------------------------------------------------------------------|-----------------|----------------------|--------------------------------------------------------------------------|
| WEIGHT (KG / LBS) WITH / WITHOUT BATTERY                                  |                 |                      | 2.4/1.77   5.29/3.9                                                      |
| TOTAL INTERNAL BREATHING SYSTEM VOLUME (REUSABLE & DISPOSABLE)            |                 |                      | Approx. 690 mL without mask<br>Approx. 800 mL with mask                  |
| PATIENT VALVE DEAD SPACE WITH ELBOW COMPLIANCE (DISPOSABLE TUBING SYSTEM) |                 |                      | Approx. 35 mL<br>16.6 ml/kPa                                             |
| PATIENT TUBING SYSTEM RESISTANCE (INSPIRATION & EXPIRATION)               |                 |                      | < 6 cmH <sub>2</sub> O at 60 L/min<br>< 6 cmH <sub>2</sub> O at 30 L/min |
| ENVIRONMENTAL CONDITIONS                                                  | Ventilator      | Continuous operation | - 18°C to +50°C, Rh: 15% to 95%                                          |
|                                                                           |                 | Transient operation  | - 20oC to +50oC, Rh: 15% to 95%                                          |
|                                                                           |                 | Storage              | - 40°C to +60°C, Rh: 15% to 95%                                          |
|                                                                           | Battery         | Charging             | 0°C to +40°C                                                             |
|                                                                           |                 | Discharging          | - 20°C to +60°C                                                          |
|                                                                           |                 | Storage              | -20°C to +35°C, low humidity, non-corrosive atmosphere                   |
|                                                                           | Patient Circuit | Use                  | - 18°C to +50°C, Rh: 15% to 95%                                          |
|                                                                           |                 | Storage              | - 20°C to +60°C, Rh: 15% to 95%                                          |

\* BTPS: Volume measurements corrected to a body temperature of 37 °C and a barometric pressure of 101.3 kPa under saturated conditions (100% humidity). **Note:** Measurement uncertainty is ±5% for volume parameters and ±6% for pressure parameters.

\*\* **Transient Operation:** The e700\* is capable of maintaining its specifications when operated normally for a period of at least 20 minutes between –20 °C and +50 °C. This ensures sufficient time for on-site emergency treatment prior to transferring the patient to the next point of care. It is strongly recommended that the patient, the ventilator, and the operator be moved to a more controlled environment in the event of extreme temperature or humidity conditions.

## ORDERING INFORMATION

|               |                                                                                                                                                                                                    |           |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 01EVE700      | e700 electronic automatic transport ventilator, supplied with disposable patient circuit, resuscitation mask, 1.8 m supply hose*, calibrated test lung, and power supply (specify country of use). | Each      |
| 01CV8030-CS   | O-Two Medical single-use electronic transport ventilator circuit, 1.8 m with protective sleeve. Compatible with e500, e600, and e700 models.                                                       | Case / 10 |
| 01CV7035      | "Smart Mount" versatile mounting bracket for O-Two Medical e-Series ventilators (ambulance stretcher, hospital bed, mobile stand).                                                                 | Each      |
| 01CV8040-CS   | Replacement intake filter for O-Two Medical e-Series ventilators.                                                                                                                                  | Case / 10 |
| 01TA1852      | Replacement 1-liter test lung with compliance limiter for O-Two Medical e-Series ventilators.                                                                                                      | Each      |
| 01FV4303-DISS | O-Two oxygen supply hose, 1.85 m, with 9/16" DISS fittings.                                                                                                                                        | Each      |
| 01CV9100      | Replacement lithium-ion battery for O-Two Medical e-Series ventilators.                                                                                                                            | Each      |
| 01CV0105      | Power supply for e-Series ventilators.                                                                                                                                                             | Unité     |
| 01CV0106      | Power cord for e-Series ventilator power supply.                                                                                                                                                   | Each      |
| 01CV0102-EU   | Power cord for e-Series ventilator power supply (European model).                                                                                                                                  | Each      |
| 01CV7050      | Carrying bag for e-Series automatic transport ventilator, with shoulder strap (specifically designed for the e-Series).                                                                            | Each      |
| 01TA7650      | Leak test kit for e-Series ventilators.                                                                                                                                                            | Each      |

THIS PRODUCT IS COVERED BY A TWO-YEAR WARRANTY AGAINST MANUFACTURING DEFECTS.

[www.otwo.com](http://www.otwo.com)

45A Armthorpe Road, Brampton, ON, Canada, L6T 5M4

Telephone: +1 905 792-OTWO (6896) | Toll-Free (North America): +1 800 387 3405

Facsimile: +1 905 799 1339 | Email: [resuscitation@otwo.com](mailto:resuscitation@otwo.com)



MedNet EC-REP Ilb GmbH  
Borkstrasse, 10 48163 Münster, Allemagne

**o.two** controlled™  
ventilation