### MEDUMAT Standard²

Emergency and Transport Ventilator - Technical Details

<table>
<thead>
<tr>
<th><strong>Dimensions:</strong></th>
<th>206 mm x 137 mm x 130 mm</th>
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<tbody>
<tr>
<td><strong>Weight:</strong></td>
<td>Approx. 2.5 kg</td>
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</table>
| **Temperature (operating conditions):** | -18 °C to +50 °C  
                  | (0 °C to +40 °C with CO₂ measurement) |
| **Height above sea level (operating conditions):** | -500 m to 5 000 m |
| **Degree of protection against:** | - Ingress of solid foreign bodies  
                                                        - Ingress of dust  
                                                        - Ingress of water with harmful effect |
| **Resistance to shock and vibration:** | EN 1789  
                                            EN 794-3  
                                            ISO 10651-3  
                                            RTCA DO-160  
                                            MIL-STD 810 G |
| **Power supply:** | 12 to 15 V or 100 to 240 V / 50 to 60 Hz with external power supply unit |
| **Battery runtime (typically):** | Up to 10 h |
| **Ventilation modes (standard):** | IPPV  
                                           CPR  
                                           RSI  
                                           CPAP  
                                           Demand |
| **Ventilation modes (optional):** | SIMV  
                                            SIMV + ASB  
                                            S-IPPV  
                                            CPAP + ASB  
                                            PCV  
                                            aPCV  
                                            BiLevel + ASB  
                                            PRVC + ASB  
                                            CCSV |
| **Monitoring:** | Airway pressure, Optional: Expiratory flow/volume  
                                 Capnography  
                                 etCO₂ trend  
                                 Chest compression rate (only with CCSV) |
| **Other functions:** | CCSV mode for resuscitation  
                                      RSI mode for induction of anesthesia  
                                      Bluetooth® data transmission option  
                                      Night Vision Goggles option |
| **FiO₂:** | AirMix (approx. 60%) or 100% |
| **Tidal volume:** | 50 ml to 2 000 ml |
| **Ventilation rate:** | 5/min to 50/min |
| **I:E:** | 1:4 to 4:1, 1:1 in CPR Manual |
| **PEEP:** | 0 mbar to 30 mbar |
| **Further standards used:** | EN 60601-1  
                                     EN 60601-1-2  
                                     EN 794-3  
                                     ISO 10651-3  
                                     EN 13718-2 |