MEDUMAT Easy\textsuperscript{CPR}

The Guiding Emergency Ventilator
Safe and Effective Ventilation for Non-Intubated and Intubated Patients

Airway management and ventilation are some of the most important, yet challenging situations EMS faces in the pre-hospital setting. And ventilation continues to be one of the most difficult aspects of high-performance CPR. With MEDUMAT EasyCPR, ventilation is consistent and reliable, lowering the risk of hyperventilation and gastric insufflation that comes with manual bag-valve mask ventilation. MEDUMAT EasyCPR can be used with a basic mask, a supraglottic airway or an endotracheal tube, allowing responders at all levels to maintain appropriate respiratory rates and tidal volumes throughout patient care. The ventilator ensures the highest degree of safety by giving clear audio responses that guide the EMS responder through CPR procedures. When developing MEDUMAT EasyCPR, we concentrated on ergonomic design, intuitive operation and a size and weight that would be easy to transport. Mounted on a LIFE-BASE portable system MEDUMAT EasyCPR and our defibrillator/monitor MEDUCORE Standard² make the perfect emergency team.

Main Benefits

- Can be integrated easily in the standard process for CPR
- Simple to use with intuitive controls and predefined settings
- Small and lightweight
- Allows one person to administer two mechanical breaths in less than 5 sec.
- Can be used on one portable system together with MEDUCORE Standard / MEDUCORE Standard²
- Voice assistance available in 20 languages
- Reliable rate and volume – not too much, not too little
- Decreased risk of hyperventilation and gastric insufflation compared to a BVM
- Demand flow mode for oxygenation of patients who are spontaneously breathing
MEDUMAT EasyCPR's built-in adult and pediatric settings allow you to quickly ventilate at the right rate and volume during critical situations. With minimal training, paramedics of all levels can use MEDUMAT EasyCPR to better ventilate patients with a variety of conditions. And at less than 1 kg, MEDUMAT EasyCPR is ideal for the pre-hospital setting.

Product Features

1. CPR mode for applying manual breaths via MEDUtrigger during resuscitation
2. One single knob for setting tidal volume and ventilation rate
3. Color coding for simple settings by patient age
4. Built-in visual and audible alarm system
5. Demand-flow mode supports spontaneous ventilation
6. Two pressure limits for tube and mask ventilation
7. Continuous monitoring of airway pressure via LED display
8. Connection for oxygen hose
9. Loudspeaker for voice assistance and metronome (can be deactivated)

More Consistent Mask Ventilation

Using the integrated MEDUtrigger, a single EMS professional can maintain a good mask seal with both hands while simultaneously ventilating the patient. Located on the ventilation mask, the MEDUtrigger allows the rescuer to deliver a single mechanical breath at a fixed tidal volume – simply by pressing a button with their thumb. Once a supraglottic airway or endotracheal tube is in place, MEDUMAT EasyCPR can be used for continuous ventilation with a fixed ventilation rate and volume. This allows the EMS professional to accomplish other tasks besides ventilation.
Mobility Concept for MEDUMAT EasyCPR

Available on LIFE-BASE portable systems, MEDUMAT EasyCPR offers you many benefits in ventilation and oxygen therapy.

1. LIFE-BASE 3 NG with MEDUCORE Standard² and MEDUMAT EasyCPR (WM 9932)
2. Combination options with monitor/defibrillator MEDUCORE Standard² or MEDUCORE Standard (not shown)
3. Easy to transport
4. Both ventilation and oxygen inhalation possible in one system
5. Practical and safe storage of accessories

LIFE-BASE light with MEDUMAT EasyCPR and MODUL CPAP (WM 28235)

LIFE-BASE III with MEDUMAT EasyCPR (WM 9155)

LIFE-BASE III MANV with MEDUMAT EasyCPR, MODUL Oxygen and 3-way distributor (WM 8000)
1. Reusable ventilation hose with patient valve consisting of:
   - Ventilation hose WM 22647
   - Patient valve consisting of:
     - connection nozzle to patient hose (WM 3213),
     - Upper control element (WM 3181),
     - Bottom control element for spontaneous breathing (WM 3285),
     - Lip membrane (WM 3211)

2. Disposable hose system with patient valve
   - Set of 10 disposable hose systems WM 28110
   - Set of 25 disposable hose systems WM 15454
   - Set of 50 disposable hose systems WM 15455

3. Reusable hose protection sleeve WM 8297
4. MEDUtrigger for manual ventilation WM 20900
5. Reusable PEEP valve, adjustable from 2.5 to 10 mbar WM 3215
6. CapnoDura Combi disposable CO₂ detector for endtidal CO₂ measurement WM 20760
   - Set of 10 CapnoDura Combi disposable CO₂ detectors WM 20770
7. Heat and moisture exchanging filter WM 22162
8. Test bag WM 1454
9. Easy Lung for simulation of ventilation WM 28625
   - Battery WM 28045
<table>
<thead>
<tr>
<th>Technical Data</th>
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<tbody>
<tr>
<td><strong>Dimensions incl. connections (W x H x D)</strong></td>
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<tr>
<td><strong>Weight</strong></td>
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<tr>
<td><strong>Temperature</strong>&lt;br&gt;• For operation&lt;br&gt;• For storage</td>
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<tr>
<td><strong>Oxygen concentration</strong></td>
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<tr>
<td><strong>Gas supply</strong></td>
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<tr>
<td><strong>Oxygen consumption for device operation</strong></td>
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<tr>
<td><strong>Operating pressure</strong></td>
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<tr>
<td><strong>Minimum input flow</strong></td>
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<tr>
<td><strong>Power supply</strong>&lt;br&gt;• Lithium ion battery (3.6 V; 5.2 Ah)&lt;br&gt;• Battery runtime approx. 2 years</td>
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**IPPV mode**
- **Ventilation rate**<br>Infinitely adjustable from 10 to 25 min⁻¹
- **Tidal volume (Vt)**<br>Infinitely adjustable from 65 to 950 ml
- **Correlation of tidal volume to ventilation frequency**<br>\( f (\text{min}^{-1}) \times V (\text{ml}) = 65 \times 100 \times 150 \times 300 \times 500 \times 600 \times 800 \times 950 \)
- **I:E ratio**<br>1:2 or 1:3
- **Max. ventilation pressure**<br>20 or 45 mbar

**CPR mode**
- **Tidal volume (Vt)**<br>Adjustable from 65 ml to 950 ml
- **Max. ventilation pressure**<br>20 mbar or 45 mbar
- **I:E ratio**<br>1:1

**Demand flow mode**
- **Trigger**<br>&lt; 1 mbar
- **Peak flow**<br>47 to 52 l/min
- **Switch-off pressure**<br>3 mbar

**Visual and audio alarms**
- Airway pressure high (Stenosis)
- Airway pressure low/Apnea (Disconnection)
- Supply pressure low (2.7 bar O₂)
- Battery low

**Protection from dust and splashing water**<br>IP54

**Applied standards**<br>DIN EN 794-3, ISO 10651-3, EN 1789, EN 60601-1, EN 60601-1-2, RTCA/DO-160

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WEINMANN Emergency is a family-owned, internationally active medical technology company. With our mobile system solutions for emergency, transport and disaster medicine, we set standards for saving human lives. In close collaboration with professional users in emergency medical services, hospitals and military medical corps, we develop innovative medical products for ventilation and defibrillation. For more than 100 years we have offered our customers a high degree of reliability, extensive experience and quality made in Germany.