

MEDUMAT Easy CPR

The Guiding Emergency Ventilator





Safety is On Duty

Intuitive operation, small and lightweight

Although patient resuscitation is not part of your daily work, you are regularly confronted with this challenging situation. Then it is extremely important to have a reliable partner on your team that can assist you with ventilation and Cardiopulmonary Resuscitation (CPR). MEDUMAT Easy CPR was specially developed for emergency ventilation during and after resuscitation. You can, for example, trigger a ventilator breath right from the mask. The ventilator ensures the highest degree of safety by giving you clear audio responses that guide you through CPR procedures. In developing MEDUMAT Easy CPR, we concentrated on ergonomic design, intuitive operation and a size and weight that would be easy to transport. You'll have the perfect emergency team with the defibrillator/monitor MEDUCORE Standard mounted on a portable system.



Increased safety and better outcomes

You can quickly make the main settings (frequency, tidal volume, pressure limits) which comply with the ERC Guidelines. With the help of the integrated metronome and the audio responses, you will find it easy to provide the recommended rate of 110 chest compressions per minute and two rescue breaths within 5 seconds. With the administration of a constant volume and a regular ventilation frequency, you can also avoid hyperventilation of the patient. The adjustable pressure limit helps you to prevent gas insufflation of the patient's stomach and barotrauma to the lungs.

Your Benefits at a Glance

- Safe resuscitation
- Fast settings procedure
- Metronome > 100/min
- Two ventilator breaths within max. 5 seconds
- Ergonomic and simple operation
- Low weight
- Easy to transport
- Constant tidal volume
- No hyperventilation
- Low risk of gastric insufflation

A study from 2013 showed: *"The use of an automatic, manually-triggered device may improve ventilation efficiency and decrease the risk of pulmonary overdistension, while decreasing the ventilation rate."***

*"The [...] MEDUMAT Easy volume-cycled ventilators were technically efficient and reliable; their gas consumption was less than that of conventional emergency ventilators."***

MEDUMAT Easy CPR speaks your language

Professional users around the world depend on the helpful audio response facilities in MEDUMAT Easy CPR which is available in more than 20 languages.

MEDUMAT Easy CPR (WM 28140)

- Brazilian Portuguese
- Danish
- German
- English
- Finnish
- French
- Hebrew
- Icelandic
- Italian
- Dutch
- Norwegian
- Portuguese
- Swedish
- Spanish

MEDUMAT Easy CPR (WM 28160)

- Arabic
- Chinese
- German
- English
- Farsi, Persian
- Hindi
- Indonesian
- Japanese
- Korean
- Polish
- Russian
- Thai
- Czech
- Türkish

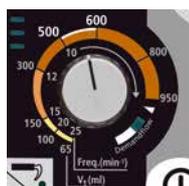
* Marjanovic, N., Le Floch, S., Jaffrelot, M., l'Her, E.: Evaluation of manual and automatic manually-triggered ventilation performance and ergonomics using a simulation model, Respiratory Care, October 2013

** L'Her, E., Roy, A.: Bench Tests of Simple, Handy Ventilators for Pandemics: Performance, Autonomy and Ergonomy, Respiratory Care, Volume 56, Number 6, June 2011

Cleverly Designed



CPR mode for assistance with chest compressions



Fast setting of parameters



MEDUtrigger to trigger a single ventilator breath

ERC Guidelines 2015 compliance

- Tidal volumes:
 - 6 – 7 ml/kg body weight
 - 500 ml – 600 ml at $f = 10/\text{min}$
- Acoustic metronome signal $f > 100/\text{min}$ ensures the correct frequency for chest compressions.
- Ventilation phase in CPR mode: max. 5 seconds
- Both hands are free for mask ventilation

User-friendly operation

- Small and space-saving
- Lightweight and handy
- Easy to transport
- Simple integration in CPR procedures

Flexibility

- In CPR mode you decide when the patient should be ventilated
- Intuitive operation minimizes need for training
- Portable system LIFE-BASE increases device mobility
- Expandable functionality with WEINMANN Emergency modules
- Safe storage of practical accessories

Safety

- Clear and explicit audio responses
- Metronome function ensures correct frequency during Cardiopulmonary Resuscitation
- Maximum ventilation pressure can be set
- Switch for maximum ventilation pressure (20 mbar/45 mbar)
- Visual and acoustic alarms
- Selection of ventilation parameters with only one knob
- Dial for tidal volume and ventilation frequency

⚡ How MEDUMAT Easy CPR helps you with CPR

Use Case: Just before the end of the working day Hans S. does not feel well, but decides to move one more pallet into the warehouse. Suddenly, his heart stops beating and his breathing ceases. He blacks out.

The First Responders reach Hans S. MEDUMAT Easy CPR helps to get ventilation and resuscitation started at once. The device tells the rescuers what to do.

Audio response from MEDUMAT Easy CPR:

“Adjust settings and connect patient.”

“Perform chest compressions now.”

The metronome helps by giving a frequency of > 100/min.

“Provide two ventilations now.”

Ventilation can be triggered manually. The First Responder has both hands free to hold the mask in place.



LIFE-BASE Portable Systems

Mobility Concept for MEDUMAT Easy CPR

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



1. LIFE-BASE 3 NG with MEDUCORE Standard and MEDUMAT Easy CPR (WM 9455)

2. Combination options with defibrillator/monitoring system MEDUCORE Standard

3. Easy to transport

4. Practical and safe storage of accessories

5. MEDUtrigger allows manual triggering of ventilator breaths



LIFE-BASE light

With MEDUMAT Easy CPR and MODUL CPAP (WM 28235)



LIFE-BASE III

with MEDUMAT Easy CPR (WM 9155)



LIFE-BASE III MCI

with MEDUMAT Easy CPR, MODUL Oxygen and 3-way distributor (WM 8000)

Accessories and Replacement Parts



- | | |
|---|---|
| <p>1. EasyLung for WEINMANN Emergency WM 28625</p> <p>2. PEEP valve with connector, infinitely adjustable from 2.5 to 10 mbar (22 mm outer diameter) WM 3215</p> <p>3. Ventilation hose and patient valve WM 22520</p> <ul style="list-style-type: none"> • Respiration tube, twin lumen WM 22647 <p>4. Disposable hose system with patient valve, WM 28110</p> <ul style="list-style-type: none"> • Set of 10 disposable hose systems WM 15454 • Set of 25 disposable hose systems WM 15455 • Set of 50 disposable hose systems WM 15456 • Patient valve, consisting of: WM 3280 <ul style="list-style-type: none"> connection nozzle to patient hose (WM 3213), Upper control element (WM 3181), Bottom control element for spontaneous breathing (WM 3285), Lip membrane (WM 3211) | <ul style="list-style-type: none"> • Lip membrane WM 3211 • Set of 25 Lip membranes (Set I) WM 15320 • Set of 50 Lip membranes (Set II) WM 15330 • Valve membrane for expiration arm on patient valve WM 3212 • Insert for spontaneous breathing arm WM 3282 • Valve membrane for spontaneous breathing arm, red WM 3284 <p>5. Reusable hose casing WM 8297</p> <ul style="list-style-type: none"> • MEDUtrigger for manual breath triggering WM 20900 • Filter WM 22162 • Test set WM 15357 • Battery WM 28045 • Filter cap for dust filter WM 4954 • Dust filter for MEDUMAT ventilators WM 7571 |
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Technical Data MEDUMAT Easy CPR

Product class as per Directive 93/42/EEC	IIb
Protection from splashing water	IP54
Standards used	EN 794-3, EN 60601-1, EN 1789
Dimensions (WxHxD)	100 x 145 x 90 mm incl. connections
Weight	About 0.6 kg
Temperature	
• for operation	-18 °C to +60 °C
• for storage	-40 °C to +70 °C
Gas supply	medical grade oxygen
Gas for internal control system	0 l/min
Operating pressure	2.7 to 6 bar*
Power supply from lithium battery (accessible from outside device)	3.6 V; 5.2 Ah, life expectancy > 2 years
Setting options	<ul style="list-style-type: none"> • Deactivation of audio responses • Deactivation of CPR metronome • Depending on device version, more than 12 different languages

IPPV mode																	
• Ventilation frequency	Adjustable from 10 to 25 min ⁻¹																
• Tidal volumes (V _t)	Adjustable from 65 to 950 ml l																
• Correlation of tidal volume to ventilation frequency	<table border="1"> <tr> <td>f (min⁻¹)</td> <td>25</td> <td>20</td> <td>15</td> <td>12</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>V_t (ml)</td> <td>65</td> <td>100</td> <td>150</td> <td>300</td> <td>500</td> <td>600</td> <td>950</td> </tr> </table>	f (min ⁻¹)	25	20	15	12	10	10	10	V _t (ml)	65	100	150	300	500	600	950
f (min ⁻¹)	25	20	15	12	10	10	10										
V _t (ml)	65	100	150	300	500	600	950										
• Max. ventilation pressure	20 or 45 mbar*																
• Double stroke porcess	Upon reaching max. ventilation pressure (e.g., delivery of additional ventilator breath to increase V _{ti} by means of chest compressions)																
Demand flow mode																	
• Trigger	< 1 mbar*																
• Peak flow	47 to 52 l/min																
• Shutdown pressure	3 mbar*																
Visual alarm with audio responses and alarm signal in event of	<ul style="list-style-type: none"> • Stenosis • Disconnection/Apnea • Decrease in supply pressure (< 2.7 bar) • Battery discharged/Device failure 																

Simply Professional

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 armies, 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.

Germany

WEINMANN Emergency
Medical Technology GmbH + Co. KG
Frohbösestraße 12
22525 Hamburg
Germany

T: +49 40 88 18 96-0 Head Office
F: +49 40 88 18 96-480 Head Office
T: +49 40 88 18 96-120 Customer Service
T: +49 40 88 18 96-122 Technical Service
E: info@weinmann-emt.de

Center for Production, Logistics and Service

WEINMANN Emergency
Medical Technology GmbH + Co. KG
Siebenstücken 14
24558 Henstedt-Ulzburg
Germany

China

Weinmann (Shanghai) Medical Device Trading Co. Ltd.
T: +86 21 52 30 22 25 • info@weinmann-emt.cn

France

WEINMANN Emergency France SARL – Paris-Igny
T: +33 1 69 41 51 20 • info@weinmann-emt.fr

Russia

Weinmann SPb GmbH – St. Petersburg
T: +7 812 633 30 82 • info@weinmann-emt.ru

Singapore

Weinmann Singapur PTE, Ltd.
T: +65 65 09 44 30 • sales-singapore@weinmann-emt.de

Spain

WEINMANN Emergency Medical Technology GmbH + Co. KG
T: +34 91 79 01 137 • sales-spain@weinmann-emt.de