MEDUMAT Easy CPR
The Guiding Emergency Ventilator

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Safety is on Duty

Although patient resuscitation is not part of your daily work, you are regularly confronted with this challenging situation. Then it is all the more important to have a partner on your team that's completely reliable and capable of helping 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 voice prompts that lead you through CPR procedures.

Intuitive operation, small and lightweight

In developing MEDUMAT Easy CPR, we concentrated on ergonomic design, intuitive operation and a size and weight that would be easy to transport.

partner for life

fast resuscitation	ergonomic	safe resuscitation
▪ quick setting ▪ metronome > 100/min ▪ ventilation in 5 seconds	▪ simple operation ▪ low weight ▪ easy to transport	▪ no hyperventilation ▪ low risk of stomach inflation

Increased safety and better outcomes

You can quickly make the main settings (frequency, tidal volume, pressure limits) which comply with the ERC 2010 Guidelines.

With the help of the integrated metronome and the voice prompts, you will find it easy to provide the recommended rate of 110 chest compressions per minute and two breaths within five seconds.

With the administration of a constant volume and a regular ventilation frequency, you can also avoid hyperventilation of the patient. The adjustable pressure limits help you to prevent insufflation of the patient's stomach.

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

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ERC 2010/AHA

MEDUtrigger to
trigger a single
ventilator breath

CPR mode for
assistance with chest
compressions

Fast setting of
parameters

MEDUMAT Easy CPR –
Cleverly Designed

ERC 2010 guideline compliance

- Tidal volume:
  - 6–7 ml/kg weight
  - 500 ml – 600 ml at f = 10/min
- Acoustic metronome signal f > 100/min ensures the correct chest compression frequency
- Ventilation phase in CPR mode: max. 5 seconds
- Both hands free for mask ventilation

User-friendly operation

- Small and space-saving
- Light and handy
- Easy to transport
- Simple integration in CPR process

EN 1789

Flexibility

- You decide in CPR mode when the patient is to be ventilated.
- Intuitive operation minimizes training needs.
- Portable system LIFE-BASE makes MEDUMAT Easy CPR mobile.
- Expandable functionality with Weinmann modules
- Practical accessories, can be safely stored

Safety

- Clear and explicit voice prompts
- Metronome function ensures correct frequency for CPR
- Maximum ventilation pressure can be set
- Switch for ventilation pressure limit (20 mbar/45 mbar)
- Visual and acoustic alarms
- Safe selection of ventilation parameters
  - Dial for tidal volume and ventilation frequency

LIFE-BASE
MEDUMAT Easy CPR Designed for Mobility and Transport

MEDUMAT Easy CPR is available on many LIFE-BASE portable systems and offers you the following benefits in ventilation and oxygen therapy:

Easy to transport

Expandable functionality with function modules

Safe and practical storage of accessories

MEDUMAT Easy CPR on LIFE-BASE light (WM 28235)

MEDUMAT Easy CPR on LIFE-BASE III (WM 9155)

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

MEDUMAT Easy CPR Speaks your Language

Professionals around the world depend on the helpful voice prompts from MEDUMAT Easy CPR, which is available with more than 20 languages:

MEDUMAT Easy CPR, WM 28140		MEDUMAT Easy CPR, WM 28160	
German	Danish	German	Turkish
English	Norwegian	English	Indonesian
French	Finnish	Russian	Thai
Italian	Icelandic	Polish	Farsi
Spanish		Czech	Persian
Portuguese		Chinese	Korean
Dutch		Japanese	Hindi
Swedish		Arabic	

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This is How MEDUMAT Easy CPR Helps You – A Case Study

Just before the end of the working day, Hans S. doesn't feel well. But there's another pallet to move to the warehouse. Suddenly his heart stops beating. His breathing ceases. Everything goes dark.

1

The First Responders reach Hans S.

Now MEDUMAT Easy CPR helps to get ventilation and re-suscitation started at once. It tells the rescuers what to do:

2

Voice prompt from MEDUMAT Easy CPR:

"Adjust settings and connect patient"

3

"Perform chest compressions now"

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

4

"Provide two ventilations now"

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

partner for life

Technical data MEDUMAT Easy CPR

CE 0197

Certified Quality
Management System
meeting EC directive 93/42/EEC
Annex II/EN ISO 9001:2000/EN ISO 13485

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 (W x H x D):	100 x 145 x 90 mm incl. connections
Weight:	about 0.6 kg
Temperature ■ for operation: ■ for storage:	-18 °C to +60 °C -40 °C to +70 °C
Gas supply:	medical grade oxygen
Gas consumption for internal management	0 l/min
Operating pressure:	2.7 to 6 bar*
Power supply ■ Lithium battery (accessible from outside device):	3.6 V; 5.2 Ah, expected service life > 2 years
Setting options:	- Deactivation of voice prompts - Deactivation of CPR metronome - Depending on device version, more than 12 different languages

IPPV mode

■ Ventilation frequency:	infinitely adjustable from 10 to 25 min^{-1}
■ Tidal volume (Vt):	infinitely adjustable from 65 to 950 ml l

■ Correlation of tidal volume to ventilation frequency:

f (min^{-1})	25	20	15	12	10	10	10	10
V$_t$ (ml)	65	100	150	300	500	600	800	950

■ Max. ventilation pressure:	20 or 45 mbar*
■ Double stroke process:	upon reaching max. ventilation pressure (e. g. with chest compressions)

Demand flow mode

■ Trigger:	< 1 mbar*
■ Peak flow:	47 to 52 l / min
■ Shut down pressure:	3 mbar*

Visual alarm with voice prompt and alarm signal in event of:	- Stenosis - Disconnection / Apnoe - Decrease in supply pressure (< 2,7 bar) - Battery discharged / Device failure

* 1 mbar ≙ 1 hPa

Accessories and replacement parts

1	EasyLung-Test lung	WM 28625
2	PEEP valve with connection nozzle, infinitely adjustable from 2.5 to 10 mbar (22 mm external diameter)	WM 3215
3	Patient hose system with patient valve for MEDUMAT Easy CPR	WM 22520
	Ventilation tube, double lumen for MEDUMAT Easy CPR	WM 22647
4	Patient hose system with patient valve, disposable, for MEDUMAT Easy CPR	WM 28110
	Disposable ventilation hose set 10 x WM 28110	WM 15454
	Disposable ventilation hose set 25 x WM 28110	WM 15455
	Disposable ventilation hose set 50 x WM 28110	WM 15456
	Patient valve for MEDUMAT Easy CPR, consisting of: Patient hose connection (WM 3213), Upper control element (WM 3181), Lower control element with spontaneous breathing option (WM 3285), Lip membrane (WM 3211)	WM 3280
	Lip membrane	WM 3211

	Lip membrane Set I (25 x WM 3211)	WM 15320
	Lip membrane Set II (50 x WM 3211)	WM 15330
	Membrane for expiration tube on patient valve	WM 3212
	Insert for spontaneous breathing tube	WM 3282
	Membrane for spontaneous breathing tube, red	WM 3284
5	Reusable protective sleeve for ventilation hose for MEDUMAT Easy CPR	WM 8297
6	Retrofitting set for device outlet filter for MEDUMAT Easy CPR	WM 15780
	MEDUtrigger for manual breath initiation for MEDUMAT Easy CPR	WM 20900
	Protective cap MEDUMAT Easy CPR device socket for MEDUtrigger	WM 28144
	Bacteria filter	WM 22162
	Test set for MEDUMAT Easy CPR	WM 15357
	Battery for MEDUMAT Easy CPR	WM 28045
	Filter cap for dust filter	WM 4954
	Dust filter for all MEDUMAT devices	WM 7571

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Simply professional

You can rely on Weinmann. We set the standards for mobile solutions in patient ventilation. Our 130 years of experience and close association with professional users in emergency medical services, armies/public authorities and hospitals have led to the development of intelligent and perfectly coordinated technologies. In conjunction with the professionals in emergency, transport and disaster medicine, we pursue our shared goal of saving human lives.

Would you like to know more?
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