

MEDUMAT Standard^a

The Ventilation Standard for Professionals





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MEDUMAT Standard^a offers you everything you need for reliable emergency ventilation. Users around the world are impressed by its especially simple operation and ruggedness. With controlled and assisted ventilation we provide you with the ventilation options you require in an emergency. Our diverse modules let you add many supplemental functions, such as CPAP therapy, to MEDUMAT ventilators. When there's not a second to lose, the well-designed operating panel with special symbols and colors helps you to quickly set the right ventilation parameters. When placed on our portable LIFE-BASE system, MEDUMAT Standard^a has practically unlimited mobility.



Ventilate Reliably and Properly

An advantage MEDUMAT Standard^a has over manual ventilation is the option of setting constant values for tidal volume, ventilation frequency and minute volume. These settings help to prevent ventilator-induced injuries. Furthermore, with a ventilator you can reliably prevent hyperventilation and damaging pressure peaks. That reduces the intrathoracic pressure, which in turn improves venous reflow and cardiac output*. You can keep your hands free to provide additional care to the patient. If a problem arises, the ventilator emits acoustic and visual alarms.

Top reliability

- Automatic self-test when ventilator is switched on
- Color coding and arrow system simplifies fast and safe parameter settings for each patient group
- Settings for respiratory minute volume, respiratory rate and maximum ventilation pressure are individually adjustable
- Visual and acoustic alarms warn of acute problems such as stenosis, disconnection, loss of oxygen pressure, inadequate battery capacity, system failure, no triggering by patient

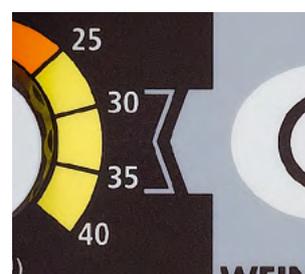
Your benefits at a glance

- Function expansion to meet your needs
- Alarm system ensures high level of safety
- Easy to transport
- Simple operation
- Complies with EN 1789

Economical and flexible

- Air Mix function reduces FiO_2 to about 60% and with that the overall oxygen consumption
- No internal oxygen consumption for operation
- No external power supply necessary
- Can be combined with all WEINMANN Emergency modules, such as MODUL CPAP
- Assist function can be activated as needed

Color coding

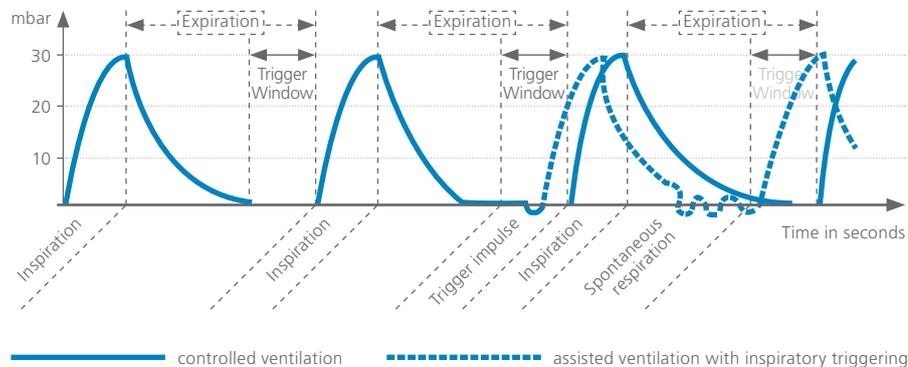


* ERC Guidelines 2010

Arrow system

Further Functions for EMS Staff

Assisted ventilation with MEDUMAT Standard^a

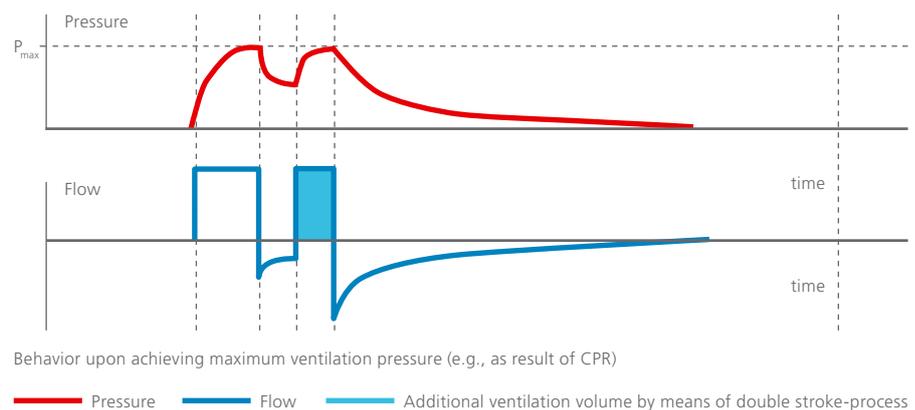


Under assisted ventilation MEDUMAT Standard^a gives the patient a ventilator breath in response to an inspiratory trigger. When the patient's respiratory efforts reach the trigger threshold, MEDUMAT Standard^a delivers a mechanical breath to the patient. If the patient does not trigger a breath within the window for inspiration, the patient will receive controlled ventilation.



Double stroke process

If the selected maximum ventilation pressure is exceeded, for example, during Cardiopulmonary Resuscitation (CPR), MEDUMAT Standard^a will briefly switch to expiration and attempt to administer a ventilator breath in the same inspiratory phase. With this double-stroke procedure, the patient receives the maximum ventilation volume.



LIFE-BASE portable system

Mobility for MEDUMAT Standard^a

You can put together ventilation and oxygen therapy systems to fit your needs on the LIFE-BASE portable system. The extremely tough LIFE-BASE system can be carried in just one hand. For transport in a vehicle, the different LIFE-BASE models are ideally protected in the crash-proof BASE-STATION mounting. You can also conveniently carry MEDUMAT Standard^a in our emergency backpack RESCUE-PACK. With RESCUE-PACK on your back, you have an unobstructed view ahead and plenty of room to maneuver. On the way to the scene of an emergency, your hands are free to carry other equipment or to open doors.



- 1. LIFE-BASE mini II
- 2. Easy to transport

- 3. Enhanced functionality with function modules

- 5. Practical and safe storage of accessories

- 4. Integrated oxygen supply



LIFE-BASE mini II
with MEDUMAT Standard^a and
MODUL OXYGEN

WM 8200



LIFE-BASE III
with MEDUMAT Standard^a and
MODUL CPAP

WM 8251



Rescue Pack I
with MEDUMAT Standard^a

WM 9065

Accessories and replacement parts



Accessories for MEDUMAT Standard^a

- | | |
|--|----------|
| 1. Patient hose system with patient valve | WM 22520 |
| 2. Patient hose system with patient valve, disposable, 2 m | WM 28110 |
| • Set of 10 disposable ventilation hoses (10 x WM 28110) | WM 15454 |
| • Set of 25 disposable ventilation hoses (25 x WM 28110) | WM 15455 |
| • Set of 50 disposable ventilation hoses (50 x WM 28110) | WM 15456 |
| • Patient hose system with patient valve, disposable, 3 m | WM 28188 |
| 3. Refitting set for device outlet filter | WM 15780 |
| 4. Bacteria filter | WM 22162 |
| 5. PEEP valve with connection nozzle, infinitely adjustable settings from 2.5 to 10 mbar (22 mm exterior diameter) | WM 3215 |
| 6. Reusable protective sleeve for ventilation hose | WM 8297 |
| 7. EasyLung | WM 28625 |
| • Test set | WM 15382 |
| 8. Station MEDUMAT | WM 22550 |
| • Station MEDUMAT with standard rail holder | WM 22670 |

Replacement parts for MEDUMAT Standard^a

- | | |
|--|----------|
| • Reusable Ventilation hose | WM 22647 |
| • Patient valve, consisting of:
Patient hose connection (WM 3213),
Upper control element (WM 3181),
Bottom control element with spontaneous breathing option (WM 3285),
Lip membrane (WM 3211) | WM 3280 |
| • Patient hose connection | WM 3213 |
| • Upper control element | WM 3181 |
| • Bottom control element with spontaneous breathing option | WM 3285 |
| • Valve membrane for expiration arm on patient valve | WM 3212 |
| • Insert for spontaneous breathing arm | WM 3282 |
| • Membrane for spontaneous breathing arm, red | WM 3284 |
| • Lip membrane | WM 3211 |
| • Set of 25 lip membranes (25 x WM 3211) | WM 15320 |
| • Set of 50 lip membranes (50 x WM 3211) | WM 15330 |
| • Set of batteries | WM 15186 |

Technical data



MEDUMAT Standard^a

Device dimensions (W x H x D in mm)	190 x 110 x 90
Weight (in kg)	about 1,1
Product class as per directive 93/42/ECC	IIb
Operating conditions <ul style="list-style-type: none"> • Temperature range • Humidity • Air pressure 	<ul style="list-style-type: none"> • -18 to +60 °C • 15% to 95% • 70 kPa to 110 kPa
Control	Time-controlled, volume-constant
Storage temperature	-40 to +70 °C
Operating gas	Medical-grade oxygen
Operating pressure	2,7 to 6 bar (1 mbar $\hat{=}$ 1 hPa)
Required amount of gas	70 l/min
Respiratory rate	5 to 40 (infinitely adjustable)
Ventilation modes	Controlled ventilation (IPPV), Assisted ventilation (SIMV)
Inspiration : Expiration	1:1,67
Inspiration: Expiration (assisted)	1:1 to 1:2.3 variable
Respiratory Minute Volume (MV)	3–20 l/min (infinitely adjustable)
Tidal volume	75 to 4000 ml
Max. ventilation pressure (Pmax)	20–60 mbar * (infinitely adjustable)
Pressurized gas connection	External thread G 3/8"
Power supply	No maintenance lithium battery 3.6 V; 5.2 Ah
Expected service life	> 2 years
Maximum storage	10 years after delivery
Ventilation hose	Spiral silicone hose NW 10
Degree of protection from splashing water	IPX4
Standards used	EN 794-3, EN 60601-1, EN 1789, RTCA-DO160 E
Alarm sound pressure	54 dB (A)
Manometer accuracy	Class 1,6
Patient valve dead space volume	12,8 ml

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.

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