

emergency



MEDUMAT Transport

High-End Ventilation in Any Situation



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We worked in close cooperation with our customers and partners to develop MEDUMAT Transport for patient ventilation in emergencies and during intensive care transport. This ventilator provides the best possible ventilation for every type of use.

For pre-hospital care or secondary transport, MEDUMAT Transport is already at work around the world during the day, at night, on the street, on the water or in the air. Paramedics can always rely on MEDUMAT Transport to deliver the most modern transport ventilation available.

State-of-the-Art

MEDUMAT Transport combines modern ventilation modes used in intensive care with the simplicity and toughness of pre-hospital emergency medicine. This device gives you the best possible solution to all kinds of ventilation challenges – from the scene of an emergency to the hospital and for intra-hospital transfers and inter-hospital transport.



**New:
Bluetooth
for MEDUMAT Transport**
Wireless transmission of
ventilation success

Information at
weinmann-emergency.de and in the
brochure entitled:
Bluetooth for MEDUMAT Transport

Advantages for you at a glance

- With the option of wireless transmission of patient data to your Electronic Medical Record system
- Transport ventilation on the level of intensive care ventilation
- Info about effective ventilation and patient condition is available fast
- Uninterrupted ventilation at change of oxygen supply
- NIV (Non-Invasive Ventilation) is standard option for better patient outcome
- Safely ventilate infants, children and adults with appropriate patient hose systems
- Clear warnings when patient condition is critical
- Great flexibility ensured by mobility options
- Ideal power management with removable battery system
- Highly economical, thanks to non-consuming oxygen sensor

Safe to use and easy to learn

MEDUMAT Transport offers safe and simple use of its extensive range of differentiated ventilation modes and options. The innovative patient group-specific settings simplify ventilation therapy for the user.

The emergency mode with one-touch activation guarantees safe usage for users who do not routinely administer acute care ventilation.



For Pros From Pros: **MEDUMAT Transport**

MEDUMAT Transport is used for pre-hospital care and secondary transport of emergency and intensive care patients. Thanks to a range of ventilation modes – pressure-controlled and volume-controlled – MEDUMAT Transport offers you a great deal of flexibility.

PRVC combines the benefits of pressure-controlled ventilation with the simplicity of volume-controlled ventilation.

MEDUMAT Transport also supports you with extensive ventilation monitoring options.

The right ventilation in any situation

- High-end ventilation with differentiated ventilation modes:
 - BiLevel
 - PCV
 - aPCV
 - CPAP + ASB
 - PRVC
 - IPPV
 - S-IPPV
 - SIMV
- Emergency mode can be activated immediately in any situation
- NIV optionally available
- Oxygen concentration can be set in levels between 40 and 100%



User-friendly operation

- Intuitive user navigation
- Emergency mode for proper ventilation right away: The press of a button calls up the default settings for infant, child or adult patient
- All essential connections are accessible from front of device
- Two pressurized gas connections
- Simple change of battery and varied charging options
- User can switch between disposable and reusable patient hose systems: Standard hose systems with lengths of two meters or three meters and reduced dead-space hose system
- Software-supported function check

Sophisticated monitoring

- Parallel presentation of up to three monitoring curves: airway pressure, flow and capnography plus display of additional monitoring parameters
- Expiratory monitoring close to patient, with precise BiCheck flow sensor system (flow and volume measurement)
- Capnography in simple and reliable side-stream processing (optionally available with MEDUMAT Transport with CO₂ measurement)
- Ideal presentation of all values in large color display



Simple and fast change of battery



Large, easy-to-read alarm lights



Unmistakable connections for ventilation hose system



All connections accessible from front of device

Background information

NIV: NIV (Non-Invasive Ventilation) for best possible patient outcome

Pressure-controlled ventilation

BiLevel: Time-controlled switch between two pressure levels (like BIPAP, Biphasic Positive Airway Pressure)

PCV: Pressure Controlled Ventilation

aPCV: assisted Pressure Controlled Ventilation

CPAP + ASB: Continuous Positive Airway Pressure + Assisted Spontaneous Breathing

PRVC: Pressure Regulated Volume Controlled

Volume-controlled ventilation

IPPV: Intermittent Positive Pressure Ventilation

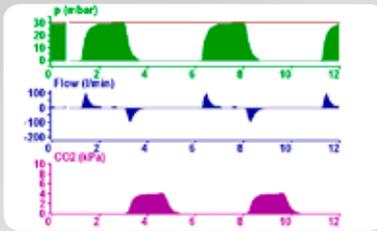
CPPV: Continuous Positive Pressure Ventilation (with pre-set PEEP)

S-IPPV: Synchronized Intermittent Positive Pressure Ventilation

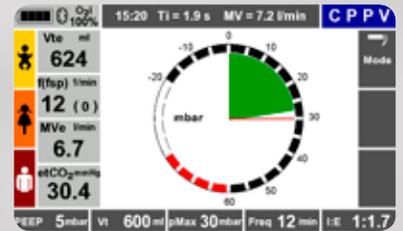
SIMV: Synchronized Intermittent Mandatory Ventilation



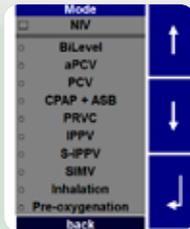
Perfect Presentation of Meaningful Parameters



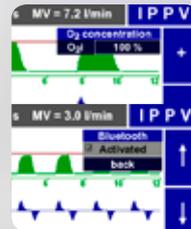
Parallel display of up to three curves



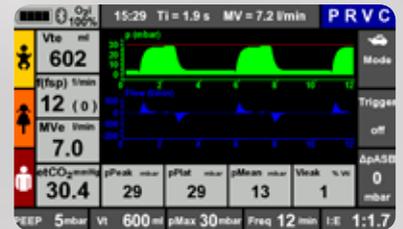
Innovative emergency mode



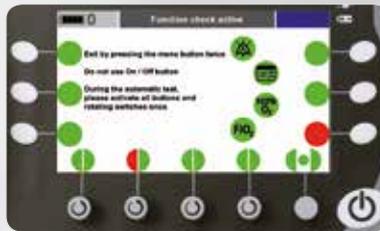
Diverse differentiated ventilation modes



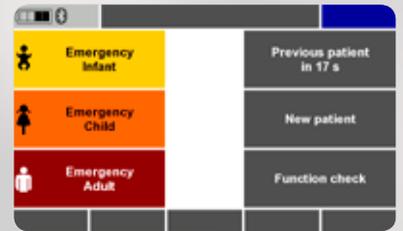
FiO₂ adjustable, Bluetooth can be activated



Night colors can be activated



Simple, automated functional check



Intuitively understood start screen for immediate use

The large color display on MEDUMAT Transport presents all the information you need to make sound decisions about treatment. With ventilation parameters in sight, you can react quickly and handle critical situations calmly.

MEDUMAT Transport shows you up to three parameters in parallel curves. When the night colors are activated, you can easily read all data without impairing visibility for the pilot and other medical personnel during an air rescue deployment.



Continuous Use – From Emergency S

MEDUMAT Transport and LIFE-BASE

MEDUMAT Transport and the portable system LIFE-BASE are perfectly coordinated. Their combination yields a wide variety of uses for the robust and highly-developed ventilation technology, from emergency rescue and intensive

care transport to trauma room and intra-hospital transfer. You can easily fasten MEDUMAT Transport on LIFE-BASE to the patient's bed.

MEDUMAT Transport comes on three different LIFE-BASE portable systems



LIFE-BASE 4 NG



LIFE-BASE 1 NG



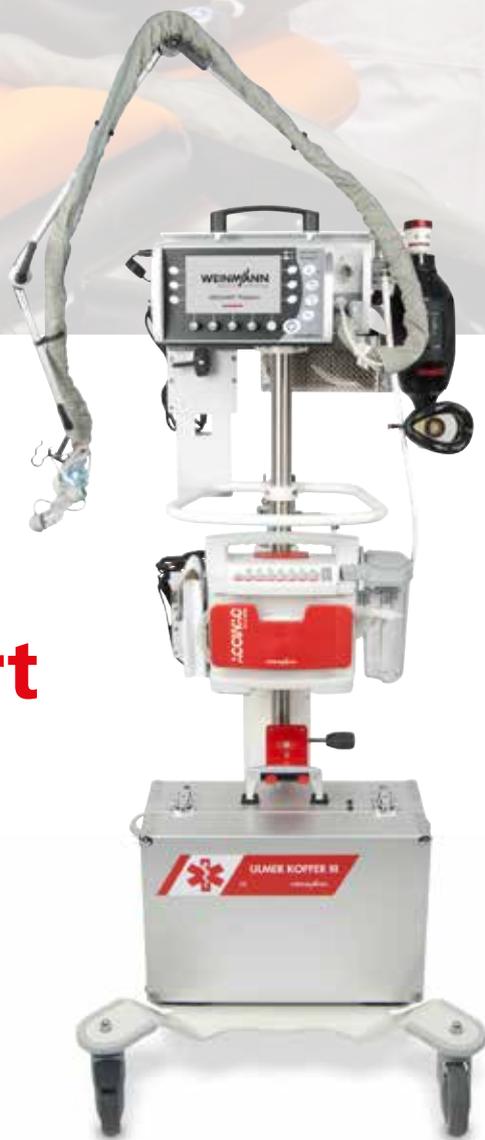
LIFE-BASE light



ite to Hospital

MEDUMAT Transport and MEDUcart

Our bedside trolley MEDUcart is the ideal place for MEDUMAT Transport in hospital. Besides MEDUMAT Transport our MEDUcart can accommodate other devices for ventilation and oxygen supplies.





The Right Hose System for Every Sit

With MEDUMAT Transport you can safely ventilate adults, children and infants. We offer you the right patient hose system for every situation.

Patient hose system with reduced dead space for ventilation of children and adults:

- Reduced dead space volume to 13 ml
- Available with or without CO₂ measurement
- Simple 2-m disposable system – all measurement-tubes are pre-connected, ready for immediate use
- Intelligent clips – for fast and simple integration of the BiCheck connection line.

All patient hose systems at a glance



2-meter disposable patient hose system, complete, with reduced dead space volumen, with connection to BiCheck flow sensor, suitable for pediatrics
WM 28215



uation

You'll find

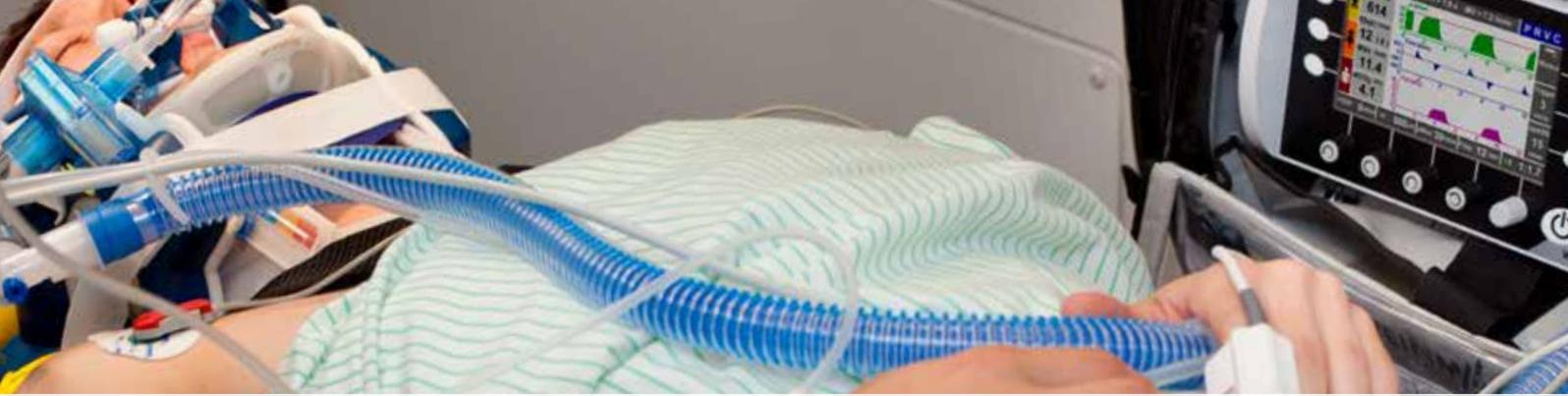
more information
in our brochure
"Patient Hose Systems"
at weinmann-emergency.de



2-meter disposable patient hose system with CO₂ measurement, complete, with connection to BiCheck flow sensor
WM 28435



2-meter reusable patient hose system with CO₂ measurement, complete, with connection to BiCheck flow sensor
WM 28425



The Right Hose System – Why It Is So Important

Background information

To prepare for any ventilation situation, you should make sure that the patient hose system you choose for your transport ventilator is capable of fulfilling all your requirements. We offer you a complete portfolio of well-designed hose systems that equip you for all emergency calls and transport needs.

Our new hose system: More than 50% reduction in dead space!

Physiological dead space is made up of the parts of the airway – nose, pharynx, trachea, bronchia and bronchioles – which do not participate in gas exchange. The greater the dead space, the lower the respiratory gas volume that reaches the patient. Changes in dead space in ventilated patients are attributed to, among other things:

- Airway access (e.g. tube, mask, tracheal cannula)
- Respiratory system filter and catheter mount tubing
- Patient hose system

Ideal ventilation of children and adults

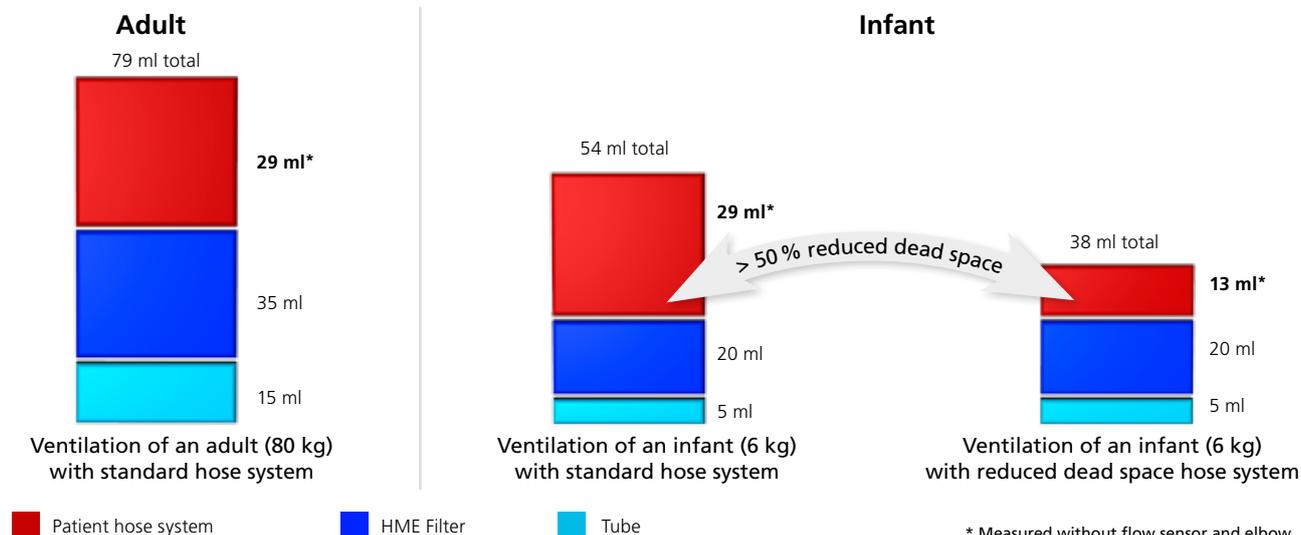
The volume of dead space in a standard patient hose system is much more significant for small patients than for adult patients because it influences the removal of CO₂.

For the new patient hose system for MEDUMAT Transport, we have been able to reduce dead space by at least 50%, Now you can also administer ideal ventilation to infants.

“... that dead space reduction gentle ventilation and to reduce lung damage ...”*

* Nolte S.; Klin Padiatr. 1992 Sep-Oct; 204(5):368-72

Dead-space volume: ratios for standard and reduced dead-space hose systems



The choice is yours: disposable or reusable system

We have reusable systems that you can easily reprocess and re-use. However, for hygienic and logistical reasons, professionals around the world are moving toward one-time usage. To fulfill all your needs, we can offer you high-performance disposable systems too.

You'll have the right hose length for any situation.

So that you can always guarantee safe and secure ventilation, we offer you practical hose lengths of two or three meters. You'll have the right hose on hand for every patient transport. Your advantage: you can provide your patient with uninterrupted ventilation during computer tomography, for example, from a single device equipped with a three-meter hose.



Patient hose system with BiCheck flow sensor near patient

You can also benefit from the flow sensor that is positioned close to the patient.

The flow sensor, which we have integrated in the hose system, provides the following advantages:

- Valid, meaningful monitoring by means of exact measurement of expiratory volumes
- Fast trigger reaction time through hot-wire anemometry
- Permits side-stream capnography via Luerlock connection

Intubation check made with side-stream capnography*

Continuous monitoring of the carbon dioxide in exhaled air provides you with further important advantages:

- Confirmation of correct intubation
- Curves that indicate diseases or disorders
- Suitable means for infants as no additional dead-space arises in comparison to mainstream capnography
- Less warm-up time compared to mainstream capnography
- No calibration required
- Broad temperature range
- Simple and robust
- Cost-effective

* MEDUMAT Transport with CO₂ measurement



Clever Rechargeable Batt Many Ch

The removable battery in the MEDUMAT Transport can be quickly and easily replaced. Each area of application has its own charging options:

Charging options for MEDUMAT Transport

<p>Component to be charged</p>	 <p>MEDUMAT Transport on LIFE-BASE 4 NG WM 9600 and WM 9605</p>	 <p>MEDUMAT Transport on LIFE-BASE 1 NG WM 9625 and WM 9620</p>	 <p>MEDUMAT Transport on LIFE-BASE light WM 28340 and WM 28350</p>
<p>Power supply voltage: 12 Volt</p>	 <p>WM 8195 WM 9107</p>	 <p>WM 8214 WM 9107 WM 9640</p>	 <p>WM 28356</p>
<p>Power supply voltage: 100 - 240 Volt</p>	 <p>WM 8237 WM 9117</p>	 <p>WM 9117 WM 9655 each with mit WM 28305</p>	 <p>WM 28305</p>

Routine charging

Via interfaces on the versatile LIFE-BASE portable system, MEDUMAT Transport is ideally designed for use in emergency medical services and hospitals.



Ceiling mounting for LIFE-BASE 1 NG with charger interface, WM 9660



BASE-STATION Mini II with offset charger interface, WM 8214



Wall mounting BASE STATION 3 NG with charger interface for LIFE-BASE 4 NG, WM 8195

ery Management and arging Options



MEDUMAT Transport single devices
WM 28300 and WM 28400



Akkupack PLUS
WM 28385



WM 28356

no direct charge via
12-V vehicle's electrical
system



WM 28305



WM 28305



12-volt power cord for direct charging, WM
28356

Technical data MEDUMAT Transport



Mode of operation	Time- and trigger-operated, pressure-controlled or volume-controlled
Ventilation modes Emergency	<ul style="list-style-type: none"> ■ Emergency ventilation, infant (IPPV pre-configured) ■ Emergency ventilation, child (IPPV pre-configured) ■ Emergency ventilation, adult (IPPV pre-configured)
Differentiated ventilation modes	BiLevel, PCV, aPCV, CPAP + ASB, PRVC, IPPV, S-IPPV, SIMV, NIV
Battery type	Li-Ion
Operating life	at least 4.5 h
Charge from 0 to 100%	about 4 hrs. in stand-by mode
Stand-by period	about 14 days
Tidal volume (Vt)	50 to 2000 ml
Frequency	0 to 60 min ⁻¹
ΔpASB	0 to 30 mbar
pInsp	3 to 60 mbar
PEEP	0 to 30 mbar
I:E	59:1 to 1:59
Max. flow	150 l/min
Flow trigger	1 to 15 l/min
O ₂ mix (FiO ₂)	40 to 100 %
O ₂ measurement	non-consumable O ₂ sensor
CO ₂ measurement	0 °C to +50 °C
Monitoring	<ul style="list-style-type: none"> ■ Expiratory volume and flow measurement with hot-wire method (BiCheck) ■ Airway pressure ■ Capnography (optional) in side-stream processing as per EN 21647
Preoxygenation/ Oxygen inhalation	Can be selected in levels of: 5, 10, 15, 20 and 25 l/min
Dimensions (W x H x D in mm)	345 x 163 x 149
Weight	about 4.4 kg/4.6 kg (with CO ₂ Option)
Operation <ul style="list-style-type: none"> ■ Temperature ■ Humidity ■ Air pressure 	-18 °C to +50 °C 15 % to 95 % (no condensation) 54 kPa to 110 kPa
Gas supply	2.7 to 6 bar, ideal at 4.5 bar with 145 l/min
Gas type	medical-grade oxygen
Power supply	<ul style="list-style-type: none"> ■ Removable battery, charged externally or internally ■ Device power: 12 to 15 volt DC ■ Voltage for external power unit 100-240 V AC, 50/60 Hz
Product class as per directive 93/42/EEC	IIb
Most important standards used	ISO 10651-3, EN 794-3, EN 1789, RTCA-DO 160 E, EN 60601-1
Alarm system	as per EN 60601-1-8
Patient hose-system	Disposable and reusable, 2 and 3 m, system switch by user
Transport and mounting systems for	<ul style="list-style-type: none"> ■ Ambulances ■ Intensive care transport vehicles ■ Rescue helicopter ■ Intensive care transfer aircraft ■ Hospital carts ■ Gurneys and hospital beds ■ Standard hospital rails ■ Permanent wall mounting

Simply Professional

You can rely on WEINMANN Emergency. 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.



partner for life

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