



# VENTImotion 2

Convincing effectiveness



## VENTImotion 2 is now even more versatile.

### More versatility with VENTImotion 2!

That means more convenience and effectiveness for you with non-invasive, pressure-controlled ventilation.

Now with VENTImotion 2 you can increase inspiratory pressure up to 40 hPa – and thereby broaden your usage spectrum. The newly integrated TA mode (Timed Adaptive), which synchronizes the ventilator and the patient's breathing pattern, helps to reduce the patient's Work Of Breathing.

The proven combination of trigger lockout, exhalation monitoring AirTrap Control and expiratory ramp simplifies ventilation of COPD patients in particular. Thanks to the optimized regulation of tidal volume by means of volume compensation, VENTImotion 2 ensures a high degree of safety and stability.

### Operating convenience

- Intuitive navigation with rotary dial and direct access to the most important ventilation parameters
- Softstart
- Numeric and graphic display of ventilation parameters
- Compatible with accessories for the VENTI product line

### Safety

- Visual and acoustic alarms
- Optional back-up power supply provided by external rechargeable battery VENTIpowers for up to seven hours of operation
- High flow of up to 300 liters/min for pressure constancy and leakage compensation.
- Hygiene Concept complies with hygiene guidelines issued by Robert-Koch Institute.



With humidifier VENTiclick  
and oxygen valve VENTI-O<sub>2</sub> plus



With VENTipower



In the transport bag



**COPD  
AirTrap  
Control**  
exhalation  
monitoring

**COPD  
Trigger  
lockout time**  
stable  
exhalation

**COPD  
Expiratory  
ramp**  
holds airways  
open

**TA Mode**  
optimum  
synchronization

**Volume  
compensation**  
safety and  
stability

More therapy comfort and convenience  
with our innovative features.

### TA mode (Timed Adaptive)

Controlled adaptive ventilation (TA mode) improves therapy compliance through optimized synchronization of ventilation with the patient's breathing pattern. The respiratory pump is effectively unloaded. The adaptive algorithm increases patient comfort and simplifies the setting process for the doctor.

### Volume compensation

Optimum safety and stability of tidal volume. Three different speeds can be set for an increase in tidal volume. Volume compensation automatically switches to precise regulation upon reaching a corridor around the targeted volume in order to achieve the most precise setting for targeted volume.

**Plus:**  
☒ IPAP to 40 hPa

Device description

VENTImotion 2

VENTImotion 2 with humidifier VENTiclick

Ord. Nr.

WM 27800

WM 27830

Please refer to the current price list.

### Particularly suitable for COPD patients

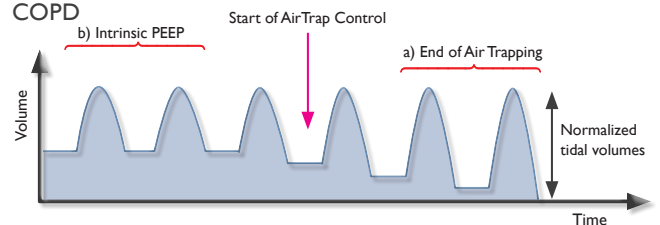
#### • Trigger lockout

Trigger lockout with high trigger sensitivity is effective protection from false triggering and trigger artefacts. This function ensures improved synchronization between patient and ventilator and thereby stabilizes the ventilation situation.

#### • AirTrap Control

AirTrap Control helps to prevent dynamic hyperinflation and makes it possible for VENTImotion 2 to automatically regulate to the best frequency and expiration time for each patient.

### With AirTrap Control – possible volume development in COPD



#### • Expiratory ramp

The expiratory ramp is the temporary splint applied to the airways at the start of expiration to counteract an expiratory collapse. The expiratory flow remains higher on average, allowing the volume to be exhaled and the respiratory position to be lowered.

## Accessories



- 1** VENTiclick – WM 24365  
Adaptable humidifier without extra power supply and tubes
- 2** VENTipower – WM 27630  
Optional external battery guarantees several hours of device operation
- 3** VENTI-O<sub>2</sub> plus – WM 27200  
Adaptive oxygen valve without additional connection tube: no adverse effect on trigger and volume compensation from oxygen feed up to 15 l/min
- 4** WEINMANNsupport – WM 93305  
PC software with converter cable USB-RS 485 (WM 93321) for setting and analysis

You'll find more information about our therapy solutions, accessories and mask systems at [loewensteinmedical.de](http://loewensteinmedical.de)

## Technical data

Product class as per 93/42/EEC:	II a	Ventilation modes:	CPAP, ST, T, TA
Dimensions (W x H x D):	230 x 120 x 280 mm	Respiratory frequency:	6 to 45 bpm
Weight:	approx. 3.7 kg	Accuracy:	±0,5 bpm
Temperature range		Increment:	1 bpm
• Operation:	+5 °C to +35 °C	I:E ratio:	
• Storage:	-40 °C to +70 °C	• Inspiration time:	15% to 67% of respiratory period
Air pressure range:	600 – 1100 hPa (allows operation up to altitude of 4000 meters) automatic altitude adjustment	• Increment:	1%
Electric connection:	115 – 230V AC, 50 – 60 Hz tolerance -20% +10%	• Accuracy:	±1%
Current consumption at:	230V 115V	Trigger level:	can be set at six levels, separate for inspiration and expiration, expiration trigger can be deactivated for ST mode
• Operation:	0.17 A 0.3 A	Pressure increase/pressure decrease speed:	can be set at six levels
• Standby:	0.050 A 0.108 A	Accuracy Volume measurement:	at 23 °C: ±15%
Classification as per EN 60601-1		Flow at max. motor speed at 0 hPa:	285 l/min ±15 l/min
• Type of protection from electric shock:	protection class II	Flow at max. motor speed with bacteria filter at 0 hPa:	270 l/min ±15 l/min
• Degree of protection from electric shock:	type BF	Heating of respiratory air as per HMV:	2.5 °C
Electromagnetic compatibility as per EN 60601-1-2		Pressure constancy measured as per DIN EN ISO 17510 in CPAP mode:	at 20 hPa: $\Delta p \leq 1$ hPa at 14 hPa: $\Delta p \leq 1$ hPa at 10 hPa: $\Delta p \leq 1$ hPa at 7 hPa: $\Delta p \leq 0,5$ hPa
• Radio interference suppression:	EN 55011	Fine filter filtration degree up to 2 µm:	≥ 99,7%
• Radio interference immunity:	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2 to 6, EN 61000-4-8, EN 61000-4-11	Fine filter service life:	1000 hours with normal ambient air
Mean sound pressure level/ Operation as per EN ISO 17510 at a distance of 1 m from device in patient position:	at 20 hPa: about 32 dB (A) at 15 hPa: about 30 dB (A)# at 12 hPa: about 28 dB (A)# at 10 hPa: about 26 dB (A)# at 7 hPa: about 24 dB (A)	Allowed humidity for operation and for storage:	≤ 95% rel. humidity (no condensation)
Sound pressure level for alarm:	about 62 dB (A)	System resistance with air flow of 60 l/min at patient connection VENTImotion 2 with tube system WM 24130 and Silentflow WM 23600:	0,20 $\frac{\text{kPa} \cdot \text{s}}{\text{l}}$
IPAP pressure range:	6 to 40 hPa	VENTiclick WM 24365 and bacteria filter WM 24148, VENTImotion 2 with O <sub>2</sub> tube system WM 23737:	0,31 $\frac{\text{kPa} \cdot \text{s}}{\text{l}}$
EPAP pressure range:	4 to 20 hPa		
CPAP pressure range:	4 to 20 hPa		
Pressure accuracy:	±0.6 hPa		
Increment:	0.2 hPa (1 hPa ≈ 1 cm H <sub>2</sub> O)		
Minimum stable limit pressure (PLS <sub>min</sub> ) (min. pressure in event of fault):	≥ 0 hPa		
Maximum stable limit pressure (PLS <sub>max</sub> ) (max. pressure in event of fault):	≤ 60 hPa		

