

VENTIlogic LS VENTIlogic plus

100 % mobility and reliability in IV and NIV



VENTI*logic* LS VENTI*logic* plus

Your requirements for reliability and mobility are our benchmark.



VENTIlogic LS and VENTIlogic plus are the forerunners in the new generation of ventilators. They offer you a high degree of reliability and versatility every day at all times. Their practice-oriented monitoring and mobility concepts are supplemented by unique ventilation functions.

VENTIlogic LS and VENTIlogic plus have leakage and single patient circuits. In addition VENTIlogic LS offers a double patient circuit system with patient valve and volume-controlled ventilation modes (VCV, aVCV).



Single patient circuit with patient valve



Double patient circuit with patient valve (only VENTI*logic* LS)

Areas of use

- For treatment of adults and children starting with 50 ml tidal volume and 5 kg body weight
- Invasive and non-invasive ventilation
- In hospital and at home
- Stationary and mobile



Use of several replaceable batteries allows unlimited independent operation.

Our concept assures more freedom

VENTI*logic* LS and VENTI*logic* plus are equipped with two options for mouthpiece ventilation, namely pressure-controlled (MPVp) and volume-controlled (MPVv). Both are available in all circuit systems. Mouthpiece ventilation gives the patient maximum freedom and independence in his therpay. The three ventilation program settings allow an ideal combination of daytime mouthpiece ventilation with night-time ventilation means. The mobility concept ensures safety and reliability in the delivery of required ventilation.

- Mobile use for intra-hospital transfers: With 9 hours of battery power (internal rechargeable battery and optional replaceable battery* have a capacity of 4.5 hours each), the devices can adapt to any change of location.
- Mobile use at home: VENTIlogic LS and VENTIlogic plus give your patients freedom of movement.
- Sure in an unsure situation: Leakage is reliably compensated for in volume and pressure controlled modes.**
 The high-performance blower ensures continuous patient care in mobile use and difficult ventilation situations, even with imprecise fit of patient interface.

Special shock resistance

Shock and vibration resistance were specially tested against recognized standards to ensure device's compliance with demands in mobile hospital and domestic surroundings. (Shock test as per IEC 60068-2-27 and Vibration test as per IEC 60068-2-64).

* The operating range of the rechargeable battery depends on the settings of the ventilation parameters and on the battery's age and charge level. The internal battery may be used only as an emergency source of power and not as a continuous primary source.

** Reliable leakage compensation in volume-controlled

Our monitoring concept ensures safe and reliable therapy

The comprehensive and clear monitoring concept provides the best support of your treatment:

- Intuitive operation for fast check of ventilation settings
- Simple and direct monitoring of oxygen saturation and pulse with the SpO₂ module.
- Unique alarm management (highly visible, large alarm window) for top safety: You can concentrate completely on therapy without any stress.
- VENTIviews: PC software for Weinmann ventilators reads out, displays, analyzes, archives and generates reports on patient and compliance data and their clinical application:
 Focus on ventilation requirements
 - Process-oriented operation matches procedures in hospital



The fast and simple way to ideal therapy settings – with innovative features by Weinmann

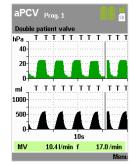
- Doctors can configure three storable ventilation programs for patients who need varying degrees of ventilation support. With the simple press of a key, the doctor, nurse or patient can select the individual programs to satisfy the patient's needs.
- LIAM (Lung Insufflation Assist Maneuver): the integrated cough support is easy to use and requires no change of masks. The patient himself or a nurse can activate the function.
- Volume compensation: Function to guarantee a pre-set target volume. The speed can be set in three levels.

Particularly suitable for COPD patients

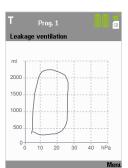
- AirTrap Control: Exhalation pressure relief to prevent dynamic hyperinflation. Thanks to AirTrap Control, VENTIlogic LS and VENTIlogic plus automatically regulate pressure to a frequency and expiration time ideal for the patient. The titration process is thereby significantly simplified.
- Trigger lockout: effective protection from false triggering and trigger artefacts at higher trigger sensitivity. The fast way to perfectly synchronized ventilation.
- Expiratory pressure ramp: temporary pneumatic splint in airways at the start of expiration to counteract expiratory collapse of airways. The expiratory flow remains larger on average, the volume can be exhaled more easily and respiratory position can be lowered.

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Double patient valve							
IPAP	24.0 hPa	40hPa					
PEEP	0.0 hPa	35-					
Ti	1.2 s	30-					
Те	2.4 s	25-					
Ti/T	33 %	20-					
f	17.0 /min	15-					
VTe	618 ml	10-					
MV	10.5 I/min	5- T					
02	21.3 %	O LICI J L					

Fast and simple monitoring of ventilation settings



Pressure and volume curves with auto-scaling function



Pressure/volume Loop with auto-scaling axes









Accessories for VENTIlogic LS and VENTIlogic plus

- 1 Replaceable battery WM 27919
- Bacteria filter (for leakage circuit) WM 24148
- Bacteria filter (for valve ventilation) Teleflex Iso-Gard WM 27591
- Bacteria filter (for valve system) WM 24476
- **5 0**, measurement set WM 15732
 - O₂ sensor connection line WM 27792 consists of:
 - 0, sensor WM 27128 O₂ sensor T-piece – WM 27143
- 6 VENTI*remote* alarm (10 m) WM 27745 (10 m) WM 27755 (30 m)
- 7 SpO, module WM 27280
- 8 Adapter for automobile
 - WM 24616

- Analogbox D/A WM 27560
- 10 Leakage circuit
- WM 24130 (can be disinfected) WM 24120 (can be sterilized)
- Single patient circuit with patient valve WM 27181
- Double patient circuit with patient valve WM 27182
- Water-resistant transport bag WM 27976
 - for mobile usage of VENTI logic LS and VENTI logic plus
- Set, mouthpiece ventilation (not shown) WM 27647
- Test adapter, packed (not shown) WM 27140
- VENTIviews (not shown), PC-Software WM 27870
- Connection cable for nurse call WM 27780 (10 m) WM 27790 (30 m)



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Product class as per directive 93/42/EEC:		ll b	IPAP pressure range:	6 to 40 hPa (lea 4 to 40 hPa (va	lve system)	
Dimensions (W x H x D):		240 x 153 x 340 mm	PEEP/EPAP pressure range:		4 to 20 hPa (leakage circuit) 0 to 20 hPa (valve system)	
Weight ■ without replaceable battery: ■ with replaceable battery:		about 5.9 kg about 6.5 kg	CPAP pressure range: Pressure accuracy:	4 to 20 hPa (leakage circuit) to 35 hPa \pm 0.8 hPa from 35 hPa \pm 1.5 hPa		
Temperature range Operation: Storage:		+5 ℃ to +35 ℃ -40 ℃ to +70 ℃	Increment:	0.2 hPa (1 hPa = 1 mba	$r \approx 1 \text{ cm H}_2\text{O}$)	
Air pressure range: 600 – 1100 hPa (below 700 hPa because the dev			Tidal volume:			
Electrical connections: 110 – 230 V AC, Tolerance -20%, -		C, 50 – 60 Hz	Minimum pressure limit stability (PLSmin) (min. pressure in case of device failure): ≥ 0 hPa Maximum pressure limit stability (PLSmax) (max. pressure in case of device failure): ≤ 60 hPa			
Power consumption at230 VOperation:0,35 AStandby:0,05 A		110 V 0,8 A 0,13 A	Respiratory rate: Accuracy: Increment:	5 to 45 bpm ± 0.2 bpm 0.5 bpm		
Maximum power consur	nption:	120 W	I:E-ratio			
Switching capacity Remote alarm connection:		60 V DC/2 A; 42 V AC/2 A	 Inspiration time: Increment: Accuracy: 	15% to 67% of breathing period 1% ±1%		
Battery capacity') internal rechargeable battery: replaceable/rechargeable battery: ') The capacity depends on the ventilation parameter setting battery's age and state of charge.		4.5 hours 4.5 hours	Trigger level:	adjustable in 8 stages for inspiration and 14 stage for exhalation (from 5 % to 95 % of maximum flow), can be switched off for exhalation in ST mo		
			Pressure increase			
Classification as per EN 60601-1 Protection from electric shock: Degree of protection from electric shock:		Protection class II	speed:			
■ Degree of protection non-nectific shock. Time required to charge battery: ■ Charge via ventilator:		about 6 hours per battery	Pressure decrease spee Leakage system: Valve system:			
			Accuracy Volume measurement: at 23 °C: ±20 %, at least 25 ml			
Leakage modes in both devices: Valve ventilation modes in both devices: and only VENTI <i>logic</i> LS:		CPAP, S, ST, T, MPVp, MPVv PSV, PCV, aPCV, SIMV, MPVp, MPVv VCV, aVCV	Max. allowable flow with oxygen feed:	15 l / at ≤ 1000 hPa		
			Max. heating of respira at 35°C ambient tempe	-	41°C	
Special therapeutic functions: ■ AirTrap Control ■ Trigger lockout ■ Expiratory pressure ramp		LIAM Volume compensation Mouthpiece ventilation	Pressure constancy mea DIN EN ISO 17510 in CP		< 10 hPa: Δp ≤ 0.5 hPa > 10 hPa: Δp ≤ 1.0 hPa	
three ventilation program			Fine filter separation le	evel to 2 µm:	≤ 99.7 %	
Electromagnetic Compatibility Radio interference suppression: Radio interference resistance:		EN 55011 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 hc ambient	urs in normal air	
			Allowable humidity Operation and storage	: ≤ 95 %	rF (no condensation)	
Mean sound level/ operation as per EN ISO 17510 with 1 m distance between device and patient position:		about 28 dB(A) at 10 hPa	Flow at max. speed at 0 hPa:	Single p patient v Double	Leakage ventilation: 350 l/min Single patient circuit with patient valve: 345 l/min Double patient circuit with patient	
Sound level of alarm:		about 69 dB(A) as per EN 60601-1-8	Tolerance:	valve (only VENTI <i>logic</i> LS): 345 l/min ±15 l/min ± 15 l/min		

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