

home care



VENTIlologic LS

VENTIlologic plus

100 % Mobility and Reliability in IV and NIV

partner for life

WEINMANN
medical technology

VENTI*logic* LS

Your Requirements for Reliability and Mobility are Our Benchmark.

VENTI*logic* LS and VENTI*logic* 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.

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



Single patient circuit with patient valve



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

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



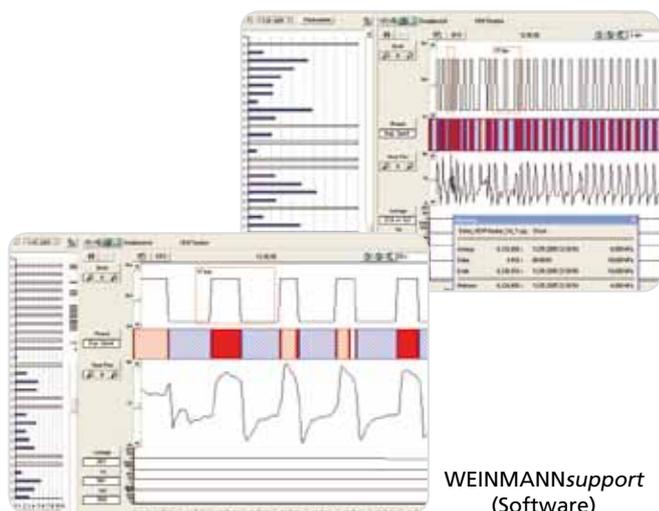
Use of several replaceable batteries allows unlimited independent operation.

gic plus

Our monitoring concept ensures safe and reliable therapy

You can rely on our new monitoring concept for VENTIlogic LS and VENTIlogic plus. Extensive and comprehensive, it provides ideal support of your treatment:

- intuitive operation for fast check of ventilation settings
- unique alarm management (highly visible, large alarm window) for top safety: You can concentrate completely on therapy without any stress.
- WEINMANNsupport:
 - trend analysis and expanded storage function for therapy with help of SD card
 - complete recording of course of ventilation treatment



WEINMANNsupport
(Software)

Our mobility concept assures more freedom

The mobility concept in VENTIlogic LS and VENTIlogic plus ensures safety and reliability in the delivery of required ventilation. That gives both you and your patients more freedom.

- Mobile use for intra-hospital transfers: With eight hours of battery power (internal rechargeable battery and optional replaceable battery* each have four hours' operation), 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.



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

- 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.
- TA Mode (Timed adaptive): ideal adaptation of ventilation to the patient's breathing pattern effectively unloads the respiratory muscles. The adaptive algorithm increases patient comfort and simplifies the setting process for the doctor.
- Volume compensation: Three different speed levels can be set for the automatic regulation to target volume. Through the selection of a speed level and pressure increase, the user can make the most precise setting to reach the target volume. When the pressure reaches a corridor around the target volume, the device automatically switches to precise regulation.

Particularly suitable for COPD patients

- AirTrap Control: Exhalation pressure relief to prevent dynamic hyperinflation. Thanks to AirTrap Control, VENTlogic LS and VENTillogic 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.



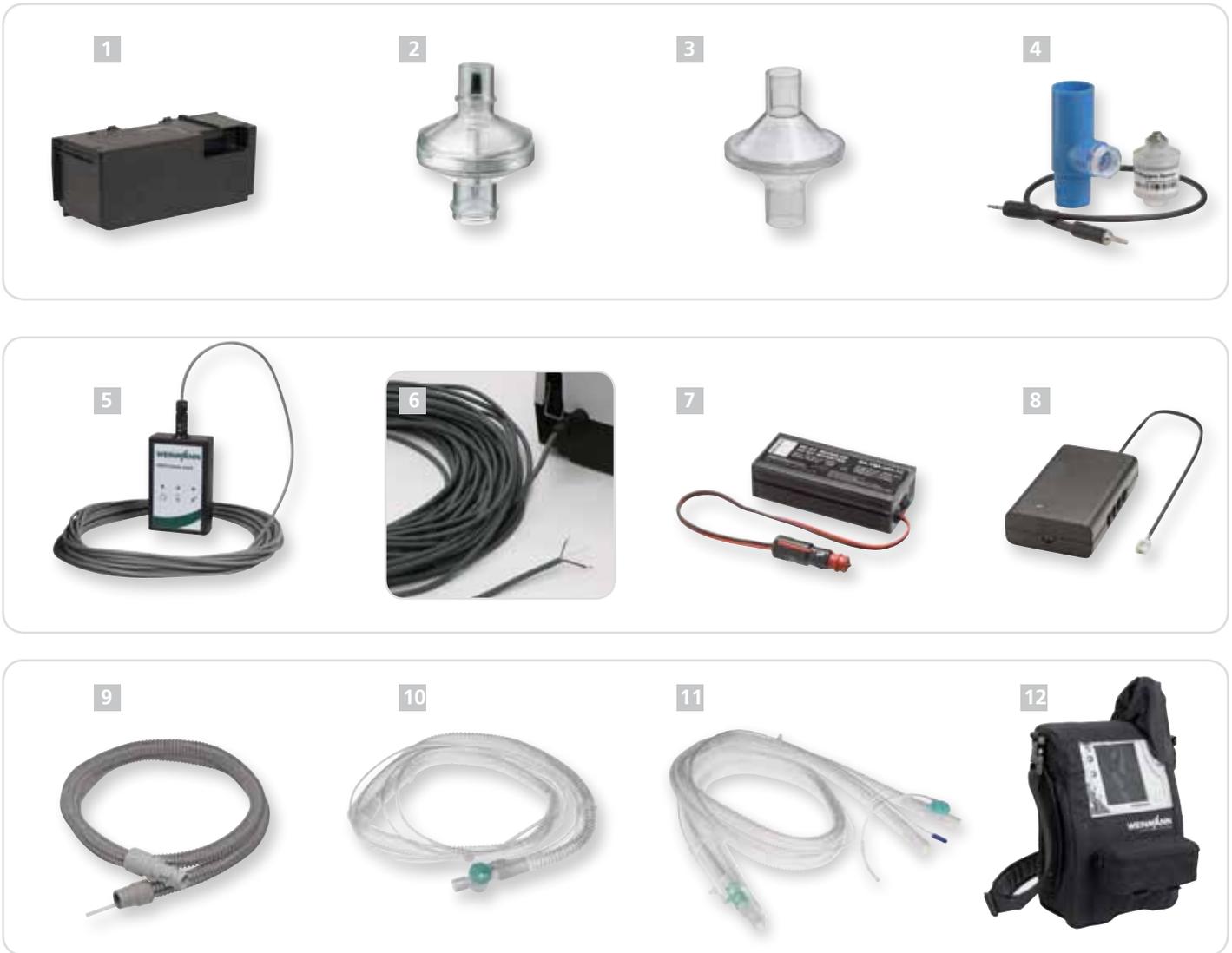
Fast and simple monitoring of ventilation settings



Pressure and volume curves with auto-scaling function



Pressure/volume Loop with auto-scaling axes



Accessories for VENTIlogic LS and VENTIlogic plus



- | | |
|--|---|
| <p>1 Replaceable battery
WM 27919</p> <p>2 Bacteria filter (for leakage circuit)
WM 24148</p> <p>3 Bacteria filter (for valve system)
WM 24476</p> <p>4 O₂ measurement set
WM 15732
consists of:</p> <ul style="list-style-type: none"> ■ O₂ sensor connection line – WM 27792 ■ O₂ sensor – WM 27128 ■ O₂ sensor T-piece – WM 27143 <p>5 VENTIremote alarm (10 m)
WM 27745 (10 m)
WM 27755 (30 m)</p> <p>6 Connection cable for nurse call
WM 27780 (10 m)
WM 27790 (30 m)</p> <p>7 Adapter for automobile
WM 24616</p> | <p>8 Analogbox D/A
WM 27560</p> <p>9 Leakage circuit
WM 24130 (can be disinfected)
WM 24120 (can be sterilized)</p> <p>10 Single patient circuit with patient valve
WM 27181</p> <p>11 Double patient circuit with patient valve
WM 27182</p> <p>12 Water-resistant transport bag
WM 27976
for mobile usage of VENTIlogic LS and VENTIlogic plus</p> <ul style="list-style-type: none"> ■ Test adapter, packed (not shown)
WM 27140 ■ WEINMANNsupport USB (not shown)
WM 93305 |
|--|---|

Technical data VENTIlogic LS and VENTIlogic plus		CE 0197	
Product class as per directive 93/42/EEC:	II b	IPAP pressure range: 6 to 35 hPa (leakage circuit) 4 to 45 hPa (valve 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: 4 to 20 hPa (leakage circuit) Pressure accuracy: to 35 hPa ± 0.8 hPa from 35 hPa ± 1.5 hPa	
Temperature range ■ Operation: ■ Storage:	+5 °C to +35 °C -40 °C to +70 °C	Increment: 0.2 hPa (1 hPa = 1 mbar ≈ 1 cm H ₂ O)	
Air pressure range: 600 – 1100 hPa (below 700 hPa leakage is to be kept low because the device may not be able to compensate for high ventilation pressures)		Tidal volume: 50 – 3000 ml	
Electrical connections:	115 – 230 V AC, 50 – 60 Hz Tolerance -20%, +10 %	Minimum pressure limit stability (PLS_{min}) (min. pressure in case of device failure): ≥ 0 hPa Maximum pressure limit stability (PLS_{max}) (max. pressure in case of device failure): ≤ 60 hPa	
Power consumption at ■ Operation: ■ Standby:	230 V 115 V 0,35 A 0,70 A 0,05 A 0,10 A	Respiratory rate: 5 to 45 1/min Accuracy: ± 0.2 1/min Increment: 0.5 1/min	
Maximum power consumption:	120 W	I:E-ratio ■ Inspiration time: 15 % to 67 % of breathing period ■ Increment: 1 % ■ Accuracy: ±1 %	
Switching capacity Remote alarm connection:	60 V DC/2A; 42 V AC/2A	Trigger level: can be set in 8 levels, separate for inspiration and expiration in ST-Mode trigger for expiration can be disabled	
Battery capacity^{*)} ■ internal rechargeable battery: ■ replaceable/rechargeable battery:	4 hours 4 hours	Pressure increase speed: Can be set in 6 levels	
*) The capacity depends on the ventilation parameter settings and the battery's age and state of charge.		Pressure decrease speed ■ Leakage system: Can be set in 6 levels ■ Valve system: One permanently set level	
Classification as per EN 60601-1 ■ Protection from electric shock: ■ Degree of protection from electric shock:	Protection class II Type BF	Accuracy Volume measurement: at 23 °C: ± 20 %	
Time required to charge battery: ■ Charge via ventilator: ■ Charge via charger cable:	about five hours per battery about three hours per battery	Max. allowable flow with oxygen feed: 15 l / at ≤ 1000 hPa	
Leakage modes in both devices: and only VENTIlogic LS:	CPAP, S, ST, T, TA SX, SXX	Max. heating of respiratory air at 35°C ambient temperature: 41°C	
Valve ventilation modes in both devices: and only VENTIlogic LS:	PSV, PCV, aPCV, SIMV VCV, aVCV	Pressure constancy measured as per DIN EN ISO 17510 in CPAP mode: < 10 hPa: Δp ≤ 0.5 hPa > 10 hPa: Δp ≤ 1.0 hPa	
Special therapeutic functions: ■ AirTrap Control ■ Trigger lockout ■ Expiratory pressure ramp	■ LIAM ■ Volume compensation	Fine filter separation level 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 hours in normal ambient air	
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	Allowable humidity Operation and storage: ≤ 95 % rF (no condensation)	
Sound level of alarm:	about 69 dB(A) as per EN 60601-1-8	Flow at max. speed at 0 hPa: 300 l/min (leakage circuit) 280 l/min (single patient circuit with patient valve) also only VENTIlogic LS: 260 l/min (double patient circuit with patient valve) ± 15 l/min	
		Tolerance:	

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