homecare

VENTI*logic* LS

The solution for life-supporting invasive and non-invasive ventilation

VENTI*logic* LS (Life-Support) is an innovative ventilator to supplement the NIV therapy devices in our VENTI family. It can be used for life-supporting invasive and non-invasive ventilation. VENTI*logic* LS, which can also be used as a titration device, permits the use of all hose systems (leakage circuit, single and double circuits with patient valve) and thus covers nearly all indications for invasive ventilation.



Titration

- Settings can be made for all Weinmann devices.
- The following modes are covered with the leakage circuit: CPAP, S, T, ST, TA, SX and SXX.
- The following modes are covered with patient circuits with patient valve: PSV, PCV, aPCV, VCV, aVCV and SIMV.

Therapeutic efficiency

- Trigger lockout: effective protection from
- false triggering and trigger artefacts in order to:
- Stabilize spontaneous breathing pattern
- Prevent hyperventilation
- Prevent alveolar hyperinflation
- Volume compensation: The speed of the automatic regulation to target volume can be adjusted (three setting levels).
 - Ideal adaptation to patient needs
- TA mode (Timed Adaptive Ventilation)
 - Reduction of patient's Work of Breathing (WOB)
 - Continuous analysis of patient's (spontaneous) breathing pattern and correspondingly adjusts controlled ventilation
 - Optimized synchronization with ventilator

Secretion management with cough support

- LIAM (Lung Insufflation Assist Maneuver) to:
- Improve ventilation
- Reduce susceptibility to infection
- Make coughing easie

WEINMANNsupport

- Trend analysis and advanced storage functions for therapy with help of SD (Secure Digital) card
- Complete recording of course of ventilation session

Simple operation

- Intuitive operation with rotary pushbutton and direct access to most important ventilation parameters
- Numeric and graphic display of ventilation parameters
- Compatibility with VENTI line accessories



The bridge between NIV and IV

VENTI*logic* LS closes the gap between non-invasive (NIV) and invasive (IV) ventilation. With this device Weinmann supports its partners in providing complete care of their patients. The integrated rechargeable battery ensures reliable and safer operation of the ventilator.

The combination of NIV and IV inlets offers a broad range of applications: from support of spontaneous breathing and intermittent self-ventilation to continuous (24 hours per day) life-sustaining ventilation.

Because VENTI*logic* LS can be converted from a leakage circuit to a single or double patient circuit with patient valve, nearly all indications for ventilation can be covered, including obstructive, restrictive and neuromuscular diseases.

The VENTI*logic* LS therapy device is distinguished by its simple and convenient operation and intuitive user guidance. Thanks to the shared operating concept and similar design of all VENTI devices, all the accessories in the Weinmann ventilation product line can also be used with VENTI*logic* LS. That simplifies operation and ensures additional safety.



Leakage circuit



Single patient circuit with patient valve



O₂ measurement set consists of: O₂ sensor with T-piece and connecting cable



Double patient circuit with patient valve



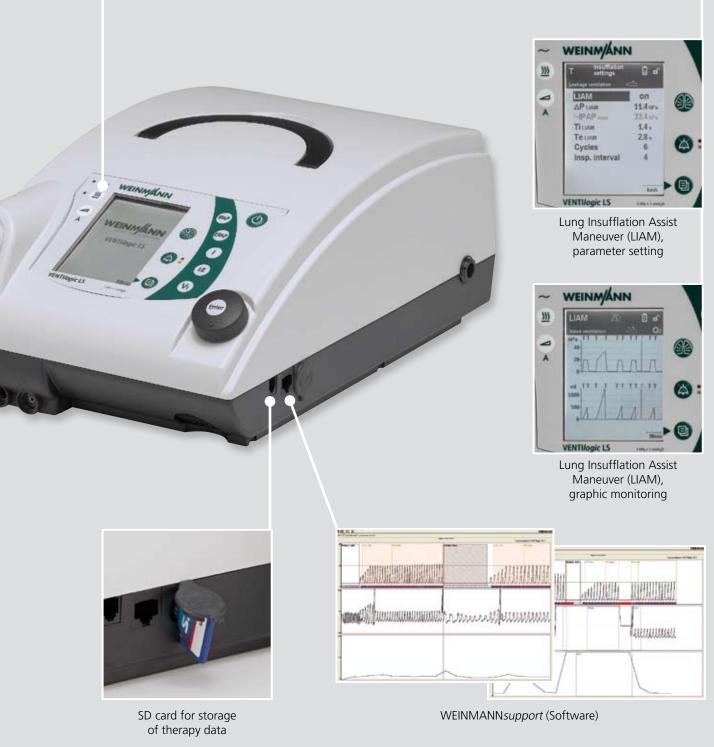
PCV mode, graphic monitoring



TA mode, graphic monitoring



TA mode, numeric monitoring





VENTIlogic LS / Ventilation

Technical Data VENTI <i>logic</i> LS			
Product class as per 93/42/EEC:	II b	IPAP pressure range: EPAP pressure range:	6 to 35 hPa (leakage circuit) 4 to 45 hPa (valve system) 4 to 20 hPa (leakage circuit) 0 to 20 hPa (valve system) 4 to 20 hPa (leakage circuit) to 35 hPa \pm 0.8 hPa above 35 hPa \pm 1.5 hPa 0.2 hPa (1 hPa = 1 mbar \approx 1 cm H ₂ O)
Dimensions (W x H x D):	230 x 145 x 340 mm	CPAP pressure range: Pressure precision:	
Weight:	approx. 6.5 kg	Increment:	
Temperature range Operation: Storage:	+5 °C to +35 °C -40 °C to +70 °C	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	
Air pressure range:	600 – 1100 hPa (below 700 hPa leakage is to be kept low because the device may not be able to com	Respiratory rate: Precision: Increment:	5 to 45 1/min ± 0.2 1/min 0.5 1/min
Electrical connection:	pensate for high ventilation pressures)	I:E Ratio Inspiration time: Increment: Precision:	15 % to 67 % of breathing period 1 % ±1 %
Power consumption at	Tolerance -20 %, +10 %	Trigger level:	Can be set in 8 levels, separate for inspiration and expiration, in ST mode Trigger for expiration can be disabled
 Operation: Standby: 	0.25 A 0.5 A 0.07 A 0.14 A	Pressure increase speed:	Can be set in 6 levels
Maximum power consumption: 120 W		Pressure decrease- speed Leakage circuit: Valve system:	Can be set in 6 levels One permanently set level
Switching capacity Remote alarm connection:	60 V DC/2 A; 42 V AC/2 A	Precision Volume measurement:	at 23°C: ± 20 %
Internal rechargeable battery 19.2 V / 3 Ah Capacity at typical loads: Load 1: (IPAP 10 hPa, EPAP 0 hPa,		Max. allowable flow for oxygen feed:	15 l/at ≤ 1000 hPa
= Capacity at typical loads.	f = 20/min, Ti/T = 40 %, VT = 450 ml, R = 8 hPa/l/s, C = 40 ml/hPa) about 3 h Load 2: (IPAP 20 hPa, EPAP 0 hPa, f = 15/min, Ti/T = 25 %,VT = 795 ml, R = 20 hPa/l/s, C = 75 ml/hPa) about 2.5 h	Max. heating of respiratory air at 35 °C ambient temperature:	41°C
		Pressure constancy measured as per DIN EN ISO 17510 in CPAP mode:	< 10 hPa: $\Delta p \le 0.5$ hPa > 10 hPa: $\Delta p \le 1.0$ hPa
Classification as per EN 60601-1		Fine filter separation level at 2 µm:	≤ 99.7%
 Protection from electric shock: Degree of protection from electric 	Protection class II ric shock: Type BF	Fine filter service life:	1000 hours in normal ambient air
Time required for full charge:	approx. 15 hrs.	Allowable humidity Operation and storage:	\leq 95% rel. humid. (no condensation)
Electromagnetic compatibility (EMC) as per EN 60601-1-2 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	Flow at max. speed at 0 hPa: Tolerance:	300 I/min (leakage circuit) 280 I/min (single patient circuit with patient valve) 260 I/min (double patient circuit with patient valve) ± 15 I/min
Mean sound level/operation a per EN ISO 17510 in patient position at distance of one me from device:		Flow at max. speed with bacteria filter at 0 hPa:	270 l/min (leakage circuit) 250 l/min (single patient circuit with patient valve) 230 l/min (double patient circuit
Sound level Alarm:	approx. 69 dB(A) as per EN 60601-1-8	Tolerance:	with patient valve) ± 15 l/min

■ Germany ■ Weinmann Geräte für Medizin GmbH+Co.KG · P.O. Box 540268 · D-22502 Hamburg · Kronsaalsweg 40 · D-22525 Hamburg · E: info@weinmann.de · www.weinmann.de · T: +49-(0)40-5 47 02-0 F: +49-(0)40-5 47 02-461 ■ Center for Production, Logistics, Service · Weinmann Geräte für Medizin GmbH+Co.KG · Siebenstücken 14 · D-24558 Henstedt-Ulzburg · T: +49-(0)4193 · 88 91-0 F: +49-(0)4193 · 88 91-450 ■ Switzerland ■ G. Weinmann AG - Neuenhof · T: +41-(0)56-416 41 11 · E: info@ch.weinmann.de · www.weinmann.de ■ France ■ Weinmann S.A.S. - Paris-Igny T: +33-(0)1 69 35 53 20 · E: info@fr.weinmann.de · www.weinmann.de ■ Russia ■ Weinmann SPb GmbH - Saint-Petersburg · T: +7-(812)6 33 30 82 · E: info@ru.weinmann.de · www.weinmann.de China ■ Weinmann GmbH+Co.KG (Shanghai Rep. Office) · T: +86 21 32 26 26 98 · E: info@cn.weinmann.de



VENTIlogic LS / Ventilation







VENTIlogic LS

with leakage circuit WM 27100

- VENTI/ogic LS basic device with rechargeable battery, WM 27130
- Power cord, WM 24177
- Protective bag for VENTI/ogic LS, WM 27106
- Retrofit set for leakage circuit, packed, WM 15545, consists of:
- Leakage circuit adapter, WM 27122
- Drying adapter, WM 24203
- Leakage circuit, WM 24130
- Info and replacement parts set, WM 15494, consists of:
- Coarse dust filter, WM 24880
- Fine filter, packed, WM 15026
- Coarse dust filter, fan, WM 27759
- O₂ coupling, WM 27166
- Allen wrench, size 3, WM 24708
- Patient passport, WM 66810
- User Manual, EN, WM 66802

VENTIlogic LS

with single patient circuit with patient valve WM 27700

- VENTI/ogic LS basic device with rechargeable battery, WM 27130
- Power cord, WM 24177
- Protective bag for VENTIlogic LS, WM 27106
- Single patient circuit with patient valve, WM 27181
- Test adapter, packed, WM 27140
- Adapter leakage ventilation, packed, WM 27199
- Info and replacement parts set, WM 15494, consists of:
- Coarse dust filter, WM 24880
- Fine filter, packed, WM 15026
- Coarse dust filter, fan, WM 27759
- O₂ coupling, WM 27166
- Allen wrench, size 3, WM 24708
- Patient passport, WM 66810
- User Manual, EN, WM 66802

VENTIlogic LS

- with double patient circuit with patient valve WM 27710
- VENTI*logic* LS basic device with rechargeable battery, WM 27130
- Power cord, WM 24177
- Protective bag for VENTI*logic* LS, WM 27106
- Retrofit set for double patient circuit with patient valve, packed, WM 15546, consists of:
- Expiration module, packed, WM 27185
- Double patient circuit with patient valve, WM 27182
- Test adapter, packed, WM 27140
- Adapter leakage ventilation, packed, WM 27199
- Info and replacement parts set, WM 15494, consists of:
- Coarse dust filter, WM 24880
- Fine filter, packed, WM 15026
- Coarse dust filter, fan, WM 27759
- O₂ coupling, WM 27166
- Allen wrench, size 3, WM 24708
- Patient passport, WM 66810
- User Manual, EN, WM 66802

VENTIlogic LS / Ventilation

Accessories external rechargeable battery Bacteria filter (for leakage circuit) Bacteria filter (for valve system) VENTIclick (only for leakage circuit) **0**, measurement set Connecting cable for O, sensor – WM 27792 O, sensor – WM 27128 T-piece, O, sensor – WM 27143 VENTIremote alarm (10 m) VENTI*remote* alarm (30 m) Connecting cable for nurse call WM 27780 (10 m) WM 27790 (30 m) Leakage circuit WM 24130 (can be disinfected) WM 24120 (can be sterilized) Single patient circuit with patient valve (not shown)

- Double patient circuit with patient valve WM 27182
- Analogbox D/A WM 27560

WM 27181

VENTIpower WM 27640

WM 24148

WM 24476

WM 24365 Humidifier

WM 15732 consists of:

WM 27745

WM 27755

- Power inverter (adapter for car) WM 24616
- Protective bag WM 27106
- Carrying bag (not shown) WM 27706 for mobile use of VENTIlogic LS
- Test adapter, packed (not shown) WM 27140
- WEINMANN support RS 232 (not shown) WM 93300
- WEINMANN*support* USB (not shown) WM 93305



