

# VENTIlogic plus

## New opportunities in invasive and non-invasive ventilation

VENTIlogic plus successfully combines therapeutic efficiency with therapeutic comfort. The new innovative functions in VENTIlogic plus present new opportunities in invasive ventilation (IV) and non-invasive ventilation (NIV) for adults and children. Patients appreciate the comfort provided by the integrated cough support LIAM (Lung Insufflation Assist Maneuver), trigger lockout and TA mode, which takes over the patient's work of breathing almost completely in controlled ventilation.



VENTIlogic plus, WM 27900



O<sub>2</sub> Measurement Set



Display

### 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 easier

### 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

Device Description	WM No.
VENTIlogic plus with single patient circuit	27900
VENTIlogic plus with leakage ventilation	27930



## Accessories

- 1 VENTlick – WM 24365**  
Adaptable humidifier without extra power supply or extra hoses
- 2 VENTpower – WM 27640**  
Optional external battery guarantees several hours of device operation.
- 3 Set O<sub>2</sub> Measurement – WM 15732**  
Oxygen sensor with T-piece and oxygen connection cable
- 4 WEINMANNsupport – WM 93305**  
PC software with converter cable USB-RS 485 (WM 93321) for settings and analyse

Our complete range of therapy solutions, accessories and mask systems is at: [weinmann.de](http://weinmann.de)

## Technical Data VENTlogic plus



<b>Product class as per 93 / 42 / EEC:</b>	II b	<b>IPAP pressure range:</b>	6 to 35 hPa (leakage circuit) 4 to 45 hPa (valve system)
<b>Dimensions (W x H x D):</b>	230 x 145 x 340 mm	<b>EPAP pressure range:</b>	4 to 20 hPa (leakage circuit) 0 to 20 hPa (valve system)
<b>Weight:</b>	approx. 6,5 kg	<b>CPAP pressure range:</b>	4 to 20 hPa (leakage circuit)
<b>Temperature range:</b>		<b>Pressure precision:</b>	to 35 hPa ± 0,8 hPa to 35 hPa ± 1,5 hPa
■ Operation:	+5 °C to +35 °C	<b>Increment:</b>	0,2 hPa (1 hPa = 1 mbar ≈ 1 cm H <sub>2</sub> O)
■ Storage:	-40 °C to +70 °C	<b>Respiratory rate:</b>	5 to 45 1/min
<b>Air pressure range:</b>	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)	<b>I:E Ratio</b>	
<b>Electrical connection:</b>	115/230 V AC, 50 – 60 Hz Tolerance -20 %, +10 %	■ Inspiration time:	15 % to 67 % of breathing period
<b>Power consumption at</b>	<b>230 V</b> <b>115 V</b>	<b>Trigger level:</b>	Can be set in 8 levels, separate for inspiration and expiration, in ST mode Trigger for expiration can be disabled
■ Operation:	0,25 A    0,5 A	<b>Pressure increase speed:</b>	Can be set in 6 levels
■ Standby:	0,07 A    0,14 A	<b>Pressure decrease speed:</b>	
<b>Maximum power consumption:</b>	120 W	■ Leakage circuit:	Can be set in 6 levels
<b>Internal rechargeable battery 19,2 V / 3 Ah</b>		■ Valve system:	One permanently set level
■ Capacity at typical loads:	Load 1: (IPAP 10 hPa, EPAP 0 hPa, f = 20/min, Ti/T = 40 %, VT = 450 ml, R = 8 hPa/l/s, C = 40 ml/hPa) ca. 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) ca. 2,5 h	<b>Accuracy volume measurement:</b>	at 23°C: ± 20 % at least 25 ml
<b>Classification as per EN 60601-1</b>		<b>Max. allowable flow for oxygen feed:</b>	15 l/at ≤ 1000 hPa
■ Protection from electric shock:	Protection Class II	<b>Max. heating of respiratory air at 35 °C ambient temperature:</b>	41 °C
■ Degree of protection from electric shock:	Typ BF	<b>Pressure constancy measured as per DIN EN ISO 17510 in CPAP mode:</b>	< 10 hPa: Δp ≤ 0,5 hPa > 10 hPa: Δp ≤ 1,0 hPa
<b>Time required for full charge:</b>	approx 15 h	<b>Fine filter separation level at 2 μm:</b>	≥ 99,7%
<b>Electromagnetic compatibility (EMV) as per EN 60601-1-2</b>		<b>Fine filter service life:</b>	1000 hours in normal ambient air
■ Radio interference suppression:	EN 55011	<b>Allowable humidity Operation and storage:</b>	≤ 95% rel. humidity (no condensation)
■ Radio interference immunity:	EN 61000-3-2, EN 61000-3-3, EN 61000-4-2 bis 6, EN 61000-4-8, EN 61000-4-11	<b>Flow at max. speed at 0 hPa:</b>	300 l/min (leakage circuit) 280 l/min (single patient circuit with patient valve)
<b>Mean sound level/operation as per EN ISO 17510 in patient position at distance of one meter from device :</b>	approx. 28 dB(A) at 10 hPa	<b>Tolerance:</b>	± 15 l/min
<b>Sound level Alarm:</b>	approx. 69 dB(A) as per EN 60601-1-8	<b>Flow at max. speed with bacteria filter at 0 hPa:</b>	270 l/min (leakage circuit) 250 l/min (single patient circuit with patient valve)
<b>Minimum pressure limit stability (PLS<sub>min</sub>) (min. pressure in case of device failure):</b>	≥ 0 hPa	<b>Tolerance:</b>	± 15 l/min
<b>Maximum pressure limit stability (PLS<sub>max</sub>) (max. pressure in case of device failure):</b>	≤ 60 hPa		

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