

SOMNOvent CR

Sound Sleep – Clearly a matter of the heart

SOMNOvent CR (Cardio-Respiratory) is for patients with periodic breathing (e.g., Cheyne-Stokes respiration) and central, mixed or complex sleep apnea. The patient's respiration is stabilized by the process called Anti-Cyclical Modulated Ventilation (ACMV) or Adaptive Servo Ventilation (ASV). The new automatic backup frequency Prio S prevents central apnea and offers additional protection from desaturation. The autoTriLevel principle ensures a dynamic, adequate pressure reaction to periodic breathing and eliminates related obstructions. Automatism significantly improves setting and titration processes.



SOMNOvent CR,
WM 24720

Comfortable therapy

- The **autoTriLevel principle combined with** Anti-Cyclical Modulated Ventilation (ACMV) provides highest therapy effectiveness by means of three pressure levels (IPAP, EPAP, EEPAP) which automatically adjust to the needs of the patient:
 - Automatic regulation of end-expiratory pressure level EEPAP to eliminate obstructive events (= autoCPAP).
 - Automatic adjustment of the Δ IPAP/EPAP (PDIFF) for adequate pressure reaction to periodic breathing of the Cheyne-Stokes type
- **WMtrak technology:** The automatic trigger technology by Weinmann ensures optimum synchronization between patient's breathing and device.
- Extremely quiet for undisturbed sleep
- Comfortable with Softstart and automatic ON/OFF functions

Operating convenience

- Greatest degree of automatism offers significant time-savings in titration and setting processes.
- Extensive statistical data clearly presented

- Convenient remote setting with SOMNOadjust or PC software WEINMANNsupport
- Additional analog signals for PSG feed: flow, pressure leakage, relative respiratory minute volume, respiratory status

Safety

- Innovative automatic backup frequency:
 - Prio S (S=spontaneous) protects from desaturation and gently supports the patient during spontaneous breathing or...
 - ... with a settable fixed backup frequency
- Leakage display for simple visualization of leakage during therapy
- Mask test for a comfortable and secure fit of the mask – even at increasing pressure levels during the night



Device Description	WM-No.
SOMNOvent CR	24720
SOMNOvent CR with SOMNOclick 300	24785
SOMNOclick 300	24375



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Accessories

- 1 **SOMNOclick 300 – WM 24375**
Humidifier
- 2 **Bacteria filter – WM 24148**
- 3 **O₂ valve – WM 24042**
safe oxygen feed
- 4 **WEINMANNsupport – WM 93301**
PC software for setting and analysis

Our complete range of therapy solutions, accessories and mask systems is at: www.weinmann.de

Technical Data SOMNOvent CR



Product class as per 93/42/EEC:	II a			Mean sound level/ operation as per EN ISO 17510 one meter away from device in patient position:	about 31 dB (A) at 18 hPa about 29 dB (A) at 15 hPa about 27 dB (A) at 12 hPa about 26 dB (A) at 10 hPa about 23 dB (A) at 7 hPa
Dimensions (W x H x D):	180 x 90 x 320 mm			Operating pressure range:	4 to 20 hPa
Weight:	about 3.4 kg			Pressure precision:	±0.4 hPa (1hPa = 1 mbar ≈ 1cm H ₂ O)
Temperature range ■ Operation: ■ Storage:	+5 °C to +35 °C -20 °C to +70 °C			Max. pressure at initial case of failure:	< 30 hPa
Allowable humidity, Operation and Storage:	≤ 95 % rel. humid. (no condensation)			Flow at max. rotation:	20 hPa 115 l/min 13.5 hPa 150 l/min 6.5 hPa 175 l/min 0 hPa 195 l/min Tolerance ±15 l/min
Air pressure range:	600 – 1100 hPa (automatic altitude adjustment, allows operation up to about 4000 meters)			Warming of inhaled air as per EN ISO 17510:	2.5 °C
Electrical connection:	115/230 V AC (±10%), 50–60 Hz or 12/24 V DC (with AC converter WM 24131 or WM 24132)			Short-term pressure constancy measured as per EN ISO 17510: 2002:	at 10 hPa Δp = 0.3 hPa
Power consumption in ■ Operating mode: ■ Standby mode:	230V 0.1 A 0.02 A	115V 0.2 A 0.03 A	24V 0.8 A 0.5 A	Filtration efficiency of fine filter:	to 1 µm: ≥ 99,5 % to 0.3 µm: ≥ 85 %
Classification as per EN 60601-1: ■ Type of protection from electric shock: ■ Degree of protection from electric shock:	Protection Class II Type B			Fine filter service life:	≥ 250 hours in normal ambient air
Electromagnetic compatibility as per EN 60601-1-2: ■ Radio interference: ■ Immunity to interference:	Test parameters and limits can be requested from the manufacturer as needed. EN 55011 EN 61000-4 Parts 2 to 6, Part 11				

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■ **Germany** ■ Weinmann Geräte für Medizin GmbH+Co.KG · P.O. Box 540268 · 22502 Hamburg · KronsaaIsweg 40 · 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 · 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 · www.weinmann.de