

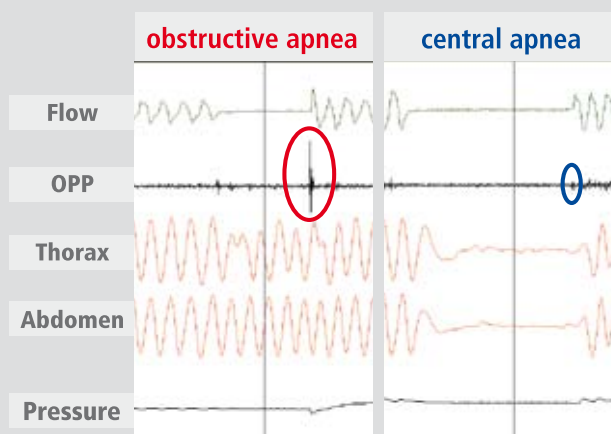
SOMNObalance e

Sleep at last.

The new auto-CPAP therapy device offers balanced treatment of obstructive sleep apnea. Dependable distinction is made between obstructive and central apnea by the new OPP (Obstructive Pressure Peak) technology. SOMNObalance e is small, light and extremely quiet. The therapy device makes operation very easy and cleaning procedures – of the integrated humidifier SOMNOaqua too– absolutely trouble-free.



SOMNObalance e with SOMNOaqua, WM 27460



OPP (Obstructive Pressure Peak) to distinguish central from obstructive apnea

Balanced Therapy

- Quiet with stable pressure
- CPAP and APAP modes have pressure relief softPAP option
- OPP (Obstructive Pressure Peak) technology to distinguish central from obstructive apnea
- Epoch-based, need-oriented pressure adjustment

Informative

- Patient-oriented Info menu in display makes therapy success visible with information about RDI (Respiratory Disturbance Index), leakage and 90% percentile
- Extensive statistical data for therapy monitoring (including CPAP) with analysis by PC software SOMNOsupport
 - 35 hours of high resolution titration data and signals
 - 180 days of compliance data with compressed signals
 - 365 days of annual compliance data
- Remote setting with SOMNOadjust or SOMNOsupport
- Analog signals for PSG feed (pressure, flow, leakage, OPP, relative respiratory minute volume)

Mobile

- Small and light
- Worldwide use with 100 to 240 V power connection
- Battery operation (automobile: 12 V or truck: 24 V) with optional DC adapter, also with simultaneous operation of humidifier

Convenient and user-friendly

- Suitable for full-face masks
- Mask test to check mask airtightness after device is switched on
- Softstart and infinitely adjustable increased starting pressure
- Click adapter for standard hose
- 2-level filter system with fine and coarse dust filters
- Trolley-suitable bag included in Supply Schedule

The optionally integrated humidifier SOMNOaqua can be inserted simply into the device housing. Its high performance, convenient operation and very simple cleaning make it a valuable addition to the device.

Device Description	WM-No.
SOMNObalance e	27420
SOMNObalance e with SOMNOaqua	27460



Accessories

- 1 **SOMNOaqua – WM 24403**
heated humidifier 300 ml
 - 2 **Bacteria filter – WM 24476**
 - 3 **O₂ valve – WM 24042**
safe oxygen feed
 - 4 **DC adapter – WM 24469**
- **SOMNOsupport – WM 23975 (not shown)**
PC Software for setting and analysis

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

Technical Data SOMNObalance e



Product class as per 93/42/ECC:	IIa
Dimensions (W x H x D):	210 x 90 x 270 mm
Weight:	about 1.7 kg
Temperature range	
■ Operation:	+5 °C to +35 °C
■ Storage:	-40 °C to +70 °C
	If the device is operated at +40 °C, the air supplied may have a temperature of up to 42 °C.
Relative humidity, Operation and storage:	95 % rel. humidity (no condensation)
Air pressure range:	600 – 1100 hPa (automatic altitude adjustment makes operation up to 4000 meters possible)
Connection diameter Air hose (mask side):	19.5 mm (suitable for 22 mm norm conus)
Electrical connection:	115 – 230 V AC +10/-15%, 50 – 60 Hz with power unit WM 24480 or 12–24 V DC +25/-15% with DC adapter WM 24469
Current consumption at	230 V 115 V 24 V 12 V
■ Operation:	0.1 A 0.2 A 0.9 A 1.8 A
■ Standby:	0.02 A 0.04 A 0.2 A 0.4 A
Classification as per EN 60601-1:2005	
■ Protection from electric shock:	Protection class II
■ Degree of protection from electric shock:	Type B
■ Protection from harmful penetration of water:	IPX1
■ Operational type:	Continuous

Electromagnetic compatibility as per EN 60601-1-2	Test parameters and limits may be requested from manufacturer as needed.
■ Radio interference suppression:	EN 55011 B
■ Radio interference resistance:	EN 61000-4 parts 2 to 6, part 11

Mean sound pressure level/ during operation 1 meter from device in patient position:	about 27 dB (A) at 10 hPa
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Operational pressure range, Pressure precision:	4 to 20 hPa ±1 hPa (1 mbar ≅ 1 hPa ≈ 1 cm H ₂ O)
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Max. pressure in event of failure:	< 40 hPa
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Flow at max. rotation:		
20 hPa	115 l/min	0 hPa 175 l/min
10 hPa	145 l/min	Tolerance ±15 l/min

Heating of respiratory air:	2.5 °C
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Short-term pressure constancy as per prEN ISO 17510:2005 at:	
20 hPa	Δp = 0.7 hPa
15 hPa	Δp = 0.6 hPa
10 hPa	Δp = 0.5 hPa
5 hPa	Δp = 0.4 hPa

Long-term pressure constancy as per prEN 17510-1:2004:	Δp = 0.1 hPa
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Fine filter separation level	
up to 1 μm:	≥ 99.5 %
up to 0.3 μm:	≥ 85 %

Fine filter service life:	about 250 hours in normal ambient air
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