



SOMNObalance e

autoCPAP device

Our quietest autoCPAP therapy – balanced and flexible

The autoCPAP therapy device SOMNObalance e is equipped with Obstructive Pressure Peak (OPP) technology which reliably distinguishes obstructive from central events. With automatic and continuous pressure adjustments in response to patient needs, the device offers great flexibility in therapy options. A selection of modes, which can be combined with intelligent softPAP pressure relief, makes SOMNObalance e even more flexible. The SD card helps to significantly optimize work processes.

Comfortable therapy

- Extremely quiet
- Automatic needs-oriented pressure adjustment in phases of high pressure variability
- softSTART

Convenient operation

- SD card to optimize work processes:
 - Easy data transfer for therapy and compliance monitoring
 - Simple first-time device configuration
 - Uncomplicated exchange of devices
 - Practical device setting with the help of the master card

- User-friendly patient information menu
- Extensive statistical data clearly presented
- Convenient data and device management with PC-software prismaTS
- Additional analog signals for PSG feed: pressure, flow, leakage, OPP, relative respiratory minute volume

Safety and reliability

- OPP technology (Obstructive Pressure Peak) distinguishes central and obstructive apnea
- In combination with further signals minor obstructive events are already treated to avoid severe obstructive events.
- Mask test ensures a comfortable and secure fit of the mask even at rising pressure levels during the night.
- Qualitative leakage display during therapy – to ensure effectiveness

Accessories

1



2



3



1 SOMNOaqua – WM 24403
heated humidifier 300 ml

2 Bacteria filter – WM 24476

3 O₂ valve – WM 24042
safe oxygen feed

For more information on our therapy solutions, accessories and mask systems please visit loewensteinmedical.de/en

Technical data

| | | | |
|---|--|--|---|
| Product class as per directive 93/42/EEC: | IIa | Electromagnetic compatibility as per EN 60601-1-2 | Test parameters and limits may be requested from manufacturer: |
| Dimensions (W x H x D): | 210 x 90 x 270 mm | • Radio interference suppression: | EN 55011 B |
| Weight: | about 1.7 kg | • Radio interference resistance: | EN 61000-4 parts 2 to 6, part 11 |
| Temperature range | | Mean sound level/ measured in patient position one meter from operating device as per EN ISO 17510:2009: | about 25.8 dB(A) at 10 hPa |
| • Operation: | +5 °C to +35 °C | Operational pressure range, pressure precision: | 4 to 20 hPa ±0.6 hPa (1 mbar 1 hPa ≈ 1 cm H ₂ O) |
| • 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. | Max. pressure in event of failure: | < 40 hPa |
| Relative humidity, Operation and storage: | 95% rel. humidity (no condensation) | Flow at max. rotation: | 20 hPa 115 l/min 10 hPa 145 l/min 0 hPa 175 l/min tolerance ±15 l/min |
| Air pressure range: | 700 – 1100 hPa (automatic altitude adjustment makes operation up to 2500 meters possible) | Heating of respiratory air: | 2.5 °C |
| Connection diameter air hose (mask side): | 19.5 mm (suitable for 22 mm norm conus) | Short-term pressure constancy with 10 breaths/min as per EN ISO 17510-1:2009 at: | 20 hPa Δp = 0.2 hPa 16 hPa Δp = 0.2 hPa 12 hPa Δp = 0.2 hPa 8 hPa Δp = 0.2 hPa 4 hPa Δp = 0.2 hPa |
| Electrical connection: | 115 – 230V AC +10/-15%, 50 – 60 Hz with power unit WM 24480 or 12–24V DC +25/-15% with DC adapter WM 24469 | Fine filter separation level up to 1 µm: | ≥ 99.5% |
| Current consumption at | 230V 115V 24V 12V | up to 0.3 µm: | ≥ 85% |
| • Operation: | 0.1 A 0.2 A 0.9 A 1.8 A | Fine filter service life: | about 250 hours in normal ambient air |
| • 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 BF | | |
| • Protection from harmful penetration of water: | IPX1 | | |
| • Operational type: | continuous | | |

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| Device description | Article Number |
|-------------------------------|----------------|
| SOMNObalance e | WM 27420 |
| SOMNObalance e with SOMNOaqua | WM 27460 |
| SOMNOaqua | WM 24403 |

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