VECTOR et BILEVEL


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The device is a therapy device in the BILEVEL version for treating obstructive sleep apnea.

**Trigger device**
The respiration trigger detects the patients efforts to breath in and out and signals these efforts to the control device. A flow-based trigger is integrated which can be set separately for inspiration and expiration. While the pressure increases during inspiration it decreases during expiration. In connection with an optimum flank adjustment this results in a ventilation which is very comfortable for the patient and which gives the patient the impression as if the device is following the natural respiration without delay.

To generate the necessary pressure, the device is provided with an electronically controlled blower. In order to keep the stress for the patient as low as possible, the blower has been designed with a high reserve capacity and a quick control response.

In addition to the mask alarm, the device offers another safety function, the power failure alarm. It automatically restarts the motor after power restoration.

For added comfort an alarm clock is integrated in the device. Further comfort functions include a soft start ramp, the automatic start-stop function and the adjustable display brightness.

## Technical Data

| | |
|---|---|
| Dimensions (w x d x h) | 230 x 212 x 107 mm |
| Mass | approx. 2,0 kg |
| Power supply | 100 V ~...240 V ~, 50...60 Hz<br>24 V DC / 2,1 A |
| Pressure range | 4 ... 20 hPa (mbar) |
| Max. limit pressure in the event of an error | < 40 hPa (konstruktiv bedingt) |
| Power consumption (24 V DC) | Maximum 50 W<br>Standby < 5 W<br>at 8 hPa (without humidifier) 10 W<br>at 28 hPa (with humidifier, level 5) 30 W |
| Power consumption (power supply) | Maximum 50 W<br>Standby < 5 W<br>at 10 hPa (without humidifier) 12 W<br>at 32 hPa (with humidifier, level 5) 33 W |
| Short time pressure variance at 4 hPa | 10 bpm = ± 0,10 hPa<br>15 bpm = ± 0,19 hPa<br>20 bpm = ± 0,28 hPa |
| Short time pressure variance at 8 hPa | 10 bpm = ± 0,10 hPa |

| | |
|---|---|
| | 15 bpm = ± 0,19 hPa |
| | 20 bpm = ± 0,28 hPa |
| Short time pressure variance at 12 hPa | 10 bpm = ± 0,10 hPa |
| | 15 bpm = ± 0,19 hPa |
| | 20 bpm = ± 0,28 hPa |
| Short time pressure variance at 16 hPa | 10 bpm = ± 0,10 hPa |
| | 15 bpm = ± 0,19 hPa |
| | 20 bpm = ± 0,28 hPa |
| Short time pressure variance at 20 hPa | 10 bpm = ± 0,10 hPa |
| | 15 bpm = ± 0,19 hPa |
| | 20 bpm = ± 0,28 hPa |
| Values determined with and without AquaTRENDuni | |
| | |
| Long time pressure variance | < 0,3 hPa |
| Display accuracy pressure | 0,5 hPa |
| Average noise level | < 25 dB(A) bei 10 hPa |
| | Betrieb in 1 m Abstand |
| | (entspricht einem Schallleistungspegel von 33 dB(A)) |
| Air delivery volume | > 170 l/min at 4 hPa therapy pressure |
| | > 160 l/min at 8 hPa therapy pressure |
| | > 150 l/min at 12 hPa therapy pressure |
| | > 130 l/min at 16 hPa therapy pressure |
| | > 120 l/min at 20 hPa therapy pressure |
| Operating temperature | + 5 °C ... + 40 °C |
| Storage temperature | - 20 °C ... + 70 °C |
| Air humidity | 15 ... 95 % rel. air humidity |
| | (operation and storage) |
| Operating altitude | - 400 m ... 3500 m (1060 hPa ... 700 hPa) |
| Filtration efficiency up to 1 µm | 99,5 % |
| CE-mark | according to EC Directive 93/42/EEC |
| Product class according to the MDD | IIa |

The technical specifications are subject to technical modification.