

## LÖWENSTEIN medical

# prisma VENT AQUA

#### Active humidification in non-invasive ventilation.

With the new prisma VENT AQUA, Löwenstein offers the ideal **respiratory humidifier** for Non-Invasive Ventilation (NIV). The system can be used together with different ventilators to deliver ideally conditioned respiratory gas to mechanically ventilated patients.

The humidifier is equipped with three humidification levels, a status display and an intuitive alarm management system.

The **three operating modes** give user and patient a broad usage spectrum for the conditioning of respiratory gas during NIV therapy, ranging from continuous positive pressure (e.g., sleep apnea treatment at home) to intense respiratory support in the hospital.

A special feature is the integrated sensor with Ambient Temperature Sensing (ATS) technology, which takes ambient temperature into account and adjusts to the varied environmental conditions at home and in the hospital. The automatic adaptation makes therapy more comfortable for the patient

prisma VENT AQUA can be used with a heated or unheated breathing tube system, mask and nasal cannula.

#### **Powerful**

prisma VENT AQUA has three operating modes:

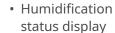
- NHW (Non Heated Wire) Operation without heated wire and temperature sensor
- HWC (Heated Wire Calculated) Operation with heated wire but without temperature sensor
- HWT (Heated Wire Temperature) Operation with heated wire and temperature sensor When it is switched on, prisma VENT AQUA automatically detects the connected accessories and selects the corresponding operating mode.

#### Safe and efficient

- · Intuitive alarm management
- Can be used with different non-invasive ventilators

#### **User-friendly**

- Simple use with two symbol keys
- Automatic function detection upon start-up
- Three humidification levels







### prisma VENT AQUA

271705

#### **Humidifier and Accessories**

prisma VENT AQUA 100506 Respiratory humidifier (including temperature sensor, hot wire distributor cable, power cord)

prisma VENT AQUA basic 100501 Respiratory humidifier (basic device)

100942 Heated wire adapter Temperature sensor, 160 cm 100910

Temperature sensor, 180 cm 100909 Reusable humidifier C500R, 500ml

humidification chamber C200AF

550.183

ac500.300e

High-Flow leakage circuit

heated (i), auto-fill chamber, passive valve, connection for HFT nasal cannula

(150 cm + 60 cm, 22 mm Ø)

Single patient circuit

valve system 271708 heated (i), with auto-fill chamber for prisma VENT AQUA or AIRcon (150 cm + 60 cm, 22 mm Ø)

Single patient circuit

valve system 271707 heated (i), with auto-fill chamber for prisma VENT AQUA or AIRcon (150 cm + 60 cm, 15 mm Ø)

#### **Technical Data**

Classification as per IEC 60601	Device (type of electric shock protection) Class II Application parts (degree of electric shock protection) Type BF - Heated / unheated breathing tube - Temperature sensor Housing (protection from damaging ingress of water and solids IP22 (1)
Dimensions W x H x D	15 x 14.2 x 20 cm
Weight	about 2.3 kg / about 2.5 kg with accessories included in delivery
Operating voltage	220 V – 240 V
Power frequency	50 Hz / 60 Hz
Power consumption	max. 260 VA
Heating plate	170 W
Inspiratory tube eating	22 V, 30 W
Warm-up time	max. 30 min, usually 10 – 15 min
Flow rate	5 – 60 l/min
Humidifying system dosage	> 10 mg/l from 5 – 60 l/min
Maximum operating pressure	200 mbar <sup>(2)</sup>
Continuous noise level	< 50 dB (1m)

Sound pressure level of alarms	max. 65 dB
Max. water volume	200 ml
Gas leakage	at max. operating pressure: < 10 ml/min <sup>(3)</sup> at 60 mbar: < 5 ml/min <sup>(3)</sup>
Pressure decrease	< 0.02 (mbar*min) / liters <sup>(3)</sup>
Internal compliance	Minimum 1.0 ml/mbar <sup>(3)</sup> Maximum 2.0 ml/mbar <sup>(3)</sup>
Temperature · in operation: · for storage and transport:	+18°C - +28°C -25°C - +70°C
Gas inlet temperature	+18°C - +28°C <sup>(4)</sup>
Humidity · in operation: · for storage and transport:	15 – 93% not condensed 15 – 93% not condensed
Atmospheric pressure · in operation: · for storage and transport:	700 hPa – 1060 hPa 500 hPa – 1200 hPa The level of humidification decreases when the therapy device delivers respiratory gas of a higher temperature.
Temperature sensor	9.5°C – 50°C (close to patient) 5°C – 80°C (humidifying chamber)
Application parts	- Heated / unheated breathing tube

- Temperature sensor

(1) Protected against solid objects > 12.5 mm (such as a finger) and against direct sprays of water when housing is tilted 15° from the vertical.

(2) As long as the Instructions for Use for the humidifying chamber do not stipulate lower maximum pressures.

(3) Depending on the humidifying chamber and the breathing tube system used.
 The information refers to the heated 22-mm system with humidifying chamber 271579.

 (4) The maximum gas outlet temperature of the therapy device is at 23°C, room temperature is 32°C.

Learn more about prisma VENT AQUA

**C**€ 0197 Please refer to the current price list.





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