



prisma VENT AQUA

Respiratory humidifier

prisma VENT AQUA – Active humidification in non-invasive ventilation

With the new prisma VENT AQUA, Löwenstein Medical 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 hot wire and temperature sensor
- HWC (Heated Wire Calculated) – Operation with hot wire but without temperature sensor
- HWT (Heated Wire Temperature) – Operation with hot 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
- Humidification status display

Humidifier and Accessories

prisma VENT AQUA
Respiratory humidifier

100506

Hot wire adapter

100942

Temperature sensor, 160 cm

100910

Temperature sensor, 180 cm

100909

High-Flow leakage circuit
heated (1), auto-fill chamber; passive valve,
connection for HFT nasal cannula
(150 cm + 60 cm, 22 mm Ø)

271705

Single patient circuit valve system
heated (1), with auto-fill chamber for
prismaVENT AQUA or AIRcon
(150 cm + 60 cm, 22 mm Ø)

271708

Single patient circuit valve system
heated (1), with auto-fill chamber for
prismaVENT AQUA or AIRcon
(150 cm + 60 cm, 15 mm Ø)

271707



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⁾)	Sound pressure level of alarms	max. 65 dB
		Max. water volume	200 ml
		Gas leakage	at max. operating pressure: < 10 ml/min ⁽³⁾ at 60 mbar: < 5 ml/min ⁽³⁾
		Pressure decrease	< 0.02 (mbar*min) / liters ⁽³⁾
Dimensions W x H x D	15 x 14.2 x 20 cm	Internal compliance	Minimum 1.0 ml/mbar ⁽³⁾ Maximum 2.0 ml/mbar ⁽³⁾
Weight	about 2.3 kg / about 2.5 kg, with accessories included in delivery	Temperature · in operation: · for storage and transport:	+18°C – +28°C -25°C – +70°C
Operating voltage	220V – 240V	Gas inlet temperature	+18°C – +28°C ⁽⁴⁾
Power frequency	50 Hz / 60 Hz	Humidity · in operation: · for storage and transport:	15 – 93% not condensed 15 – 93% not condensed
Power consumption	260 VA max.	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.
Heating plate	170 W	Temperature sensor	9.5°C – 50°C (close to patient) 5°C – 80°C (humidifying chamber)
Inspiratory tube heating	22 V, 30 W	Application parts	- Heated / unheated breathing tube - Temperature sensor
Warm-up time	max. 30 min., usually 10 to 15 min.		
Flow rate	5 to 60 l/min		
Humidifying system dosage	> 10 mg/l from 5 to 60 l/min		
Maximum operating pressure	200 mbar ⁽²⁾		
Continuous noise level	< 50 dB (1m)		

⁽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.



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