

# WILAméd

*Equipment for Professionals*



## AIRniva Respiratory Humidifier

[www.wilamed.com](http://www.wilamed.com)

The new standard for  
humidification in NIV.

CE 0197

# AIRniva Respiratory Humidifier –

## A new humidifier generation

The AIRniva Respiratory Gas Humidifier complements the WILAméd portfolio for respiratory care solutions, with special focus on noninvasive ventilation. The AIRniva provides optimal heated and humidified gas, supporting patient compliance to NIV treatment in an easy and safe manner, ultimately enhancing patient comfort.

It is adjustable between three humidification modes, making it the perfect choice for a wide range of NIV therapies, starting from BiLevel therapies in the home into high levels of ventilatory support in the hospital.



## New Ambient Temperature Sensing Technology (ATS)

The AIRniva comes with WILAméd's new ATS (Ambient Temperature Sensing) technology, enabling better performance in various ambient conditions which can be found in home- and hospital care. The AIRniva is designed to heat and humidify cold, dry and anhydrous gas, delivered to the patient via a Face Mask or Nasal Cannula. The cooling of the airway mucosa can result in heat and moisture loss and drying, which can increase airway resistance, causing increased work of breathing.

Part Number	Description	Box / Qty.
100.500	AIRniva Basic Unit (230V)	1
100.505	AIRniva Basic Unit (115V)	1
100.942	Heating-wire adapter (i)	1
100.910	Temperature probe (160cm)	1
100.909	Temperature probe (180cm)*	1
Accessories		
500.380	C200AF Universal Humidifying Chamber	1
271.579	Single limb system, heated (i), A-adapter, universal autofill chamber (150cm, 22mm Ø), Connecting tube 60cm	10
271.580	Single limb system, unheated, universal autofill chamber (150cm, 22mm Ø), Connecting tube 60cm	10
Consumables		
500.186	WILAqua Sterile Water (1000ml)	10

\* needs to be ordered separately

# the new standard for humidification in NIV

AIRniva provides a complete respiratory humidification system in combination with its specially designed humidifier chambers and breathing tube systems. It is suitable for non-invasive applications such as maskventilation or O<sub>2</sub>-Therapy.

## User-friendly

- Easy application with two symbol buttons
- Automatic function mode detection at start
- 3 function modes
- Humidification control display

## Efficient

- Suitable for all common non-invasive ventilators
- Ready for immediate use
- Extended accessory range

## Safe

- Easy alarm management

## Quality

- Protection Class II for clinical use
- Less maintenance, no hidden costs
- "Made in Germany"



## Smart performance

The AIRniva features three humidification modes:

- **NHW – Non Heated Wire Operation**  
Without Heater Wire, without temperature probe
- **HWC – Heated Wire Calculated**  
With Heater Wire, without temperature probe
- **HWT – Heated Wire Temperature probe**  
With Heater Wire, with temperature probe



# AIRniva



## Technical information

- **Dimensions:** H 142 mm x W 150 mm x D 200 mm
- **Weight:** AIRniva humidifier: approx. 2,3kg, approx. 2,5kg incl. delivery accessories
- **Classification:** Unit (protection class cf. IEC 60601) Class II
- Use area of Type BF:
  - Heated / unheated Breathing tube system
  - Temperature probe
- Protection by housing IP22

## Electrical specifications

- **Operating voltage:** AIRniva 100.500 220V~ – 240V~  
AIRniva 100.505 110V~ – 120V~
- **Mains frequency:** 50Hz / 60Hz
- **Power consumption:** 260VA max
- **Heating plate:** 170W
- **Inspiratory tube heater:** 22V~ , 30W

## Operation data

- **Warm-up time:** max. 30min, regularly 10–15min
- **Recommended Flow rate:** 5 bis 60l/min
- **Humidifier system output:** > 10mg/l in range 5 – 60l/min
- **Maximum operating pressure:** 200mbar<sup>(1)</sup>
- **Continuous noise:** < 50dB (1m)
- **Sound pressure level of the alarm:** max. 65dB
- **Max. volume of water:** 200ml

## Humidification system

- **Gas leakage at max. operating pressure:** < 10ml/min<sup>(2)</sup>
- **Gas leakage at 60mbar:** < 5ml/min<sup>(2)</sup>
- **Pressure drop:** < 0,02 (mbar\*min)/l<sup>(2)</sup>
- **Internal Compliance:** Minim 1,0 ml/mbar<sup>(2)</sup>, Maxim 2,0ml/mbar<sup>(2)</sup>

## WILAmEd GmbH

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## Environment

- **Temperature**
  - when operating: +18°C – +28°C
  - during storage and transport: -25°C – +70°C
- **Gas inlet temperature:** +18°C – +28°C<sup>(3)</sup>
- **Humidity**
  - when operating: 15 – 93% without condensation
  - during storage and transport: 15 – 93% without condensation
- **Atmospheric pressure**
  - in operation: 700hPa – 1060hPa
  - during storage and transport: 500hPa – 1200hPa

**The humidification decreases if the treatment device delivers breathing gas at a higher temperature!**

## Measurement range

- **Temperature sensor:**
  - 9.5°C – 50°C (nearest the patient)
  - 5°C – 80°C (humidity chamber)

## User area

- Heated / unheated Breathing tube system
- Temperature probe

- <sup>(1)</sup> As long as the instructions for use of the humidification chamber used do not require lower maximum pressures
- <sup>(2)</sup> Depending on the humidification chamber used and the breathing tube system used. Data refer to the heated 22mm system with humidification chamber (271.579).
- <sup>(3)</sup> The maximum gas output temperature of the treatment device at 23 °C room temperature is 32°C.

