

# WILAméd

*Equipment for Professionals*



**AIRcon Gen2  
Respiratory  
Gas Humidifier**  
[www.wilamed.com](http://www.wilamed.com)



**CE** 0197

# AIRcon Gen2 Respiratory Gas Humidifier

The comprehensively updated and full featured **AIRcon Gen2** respiratory gas humidifier is one of the most advanced humidifiers available.

As a fully packed humidifier powerhouse, the **AIRcon Gen2** includes all required parts and components you need for a worry-free, quick installation and safe operation.

It's advanced Servo-Control system allows for more precise and efficient humidity control and for a maximum of flexibility, which is essential to maintaining patient's health and safety in a rapidly changing healthcare environment.

The **AIRcon Gen2**'s outstanding improvements allow it to be used in almost any application requiring reliable humidification, from the very low flows in infant ventilation to the very high flows in Nasal-High-Flow-O<sub>2</sub>-Therapy in adults.

The **AIRcon Gen2** has been designed for

- ease of use
- adaptability
- simplicity of operation
- ease of maintenance and servicing
- energy efficiency
- long term reliability



## Everything from one source

In combination with its specially designed humidifier chambers and heated wire breathing systems, the **AIRcon Gen2** provides a complete respiratory gas humidifying system at your disposal for patients in need of invasive- or non-invasive ventilation for their treatment.

### Scope of Delivery

| P/N    | Description                         |
|--------|-------------------------------------|
| 101200 | <b>AIRcon Gen2</b> humidifier, 230V |
| 101201 | <b>AIRcon Gen2</b> humidifier, 115V |
| 100910 | temperature probe, 160cm            |
| 100909 | temperature probe, 180cm            |
| 100929 | heating wire adapter (i+e)*         |
| 100942 | heating wire adapter (i)*           |
| 100930 | country-specific power cord         |

### Accessories and Mounting

| P/N    | Description                                             |
|--------|---------------------------------------------------------|
| 500186 | WILAqua, sterile water 1000ml bottle                    |
| 500350 | WILMed C200R humidifier chamber, autoclavable           |
| 550226 | bracket (diameter 25mm) for standard rail (30mm x 10mm) |
| 550301 | pole clamp bracket for columns (25mm x 45mm)            |
| 550220 | mounting kit for standard rail                          |
| 550227 | ventilator cart                                         |

Our heated wire breathing systems (single and double limb) are applicable to neonates, children and adults. We offer configuration for clinical and extra-clinical use for all common ventilators.

\* i = inspiratory, e = expiratory

# Engineered to meet the highest standards of cost-effective, efficient performance

The **AIRcon Gen2** is the respiratory gas humidifier of choice for health care professionals in both – the Critical Care- and Home Care Environment. The pure and clean look of **AIRcon Gen2** fits perfectly into any ventilator.



The AIRcon Gen2 is a white, compact respiratory gas humidifier. It features two blue corrugated breathing tubes connected to the top. The front panel has a digital display showing two temperatures: 39.0°C and 37.0°C, and the mode 'IV'. There are several control buttons around the display, including a power button, a checkmark button, and a minus button. The brand names 'WILamed' and 'AIRcon' are visible on the front panel.

**Maximum Flexibility**

- Three modes of operation (IV, NIV, FREE)
- Approved for use in Critical- and Home Care
- Display dimmer for night time operation
- 300+ Configurations of heated wire breathing systems

**7 Unique Features**

- ACRS – Automatic Chamber Recognition System
- IRCC – Automatic Chamber Water Level Control
- ICE – Individual control of Expiratory heater wire
- EVAP – Event and Alarm Protocol
- APC – Automatic Performance Control
- MPC – Manual Performance Control
- EDA – Easy Droplet Adjustment

**Safe**

- Best in class alarm management
- IR water level monitoring (High- and Low)
- Event- and alarm protocol with download option to PC
- Real-time temperature and humidity level monitoring
- Automatic shut-off when alarms are being ignored

**High Quality**

- Best-in-Class TCO
- Manufactured “Made in Germany”

*“As a leading manufacturer of respiratory gas humidification systems for more than 20 years, WILamed has the technology and application expertise to meet the needs of any respiratory application.”*

Contact us today and ensure you have the best humidification solution for your patient available.

## Technical Specifications

### Technical Information

- **Dimensions:** H 170mm x W 145mm x D 200mm
- **Weight:** approx. 2.3kg, approx. 2.5kg incl. delivery accessories
- **Classification:**
  - Device (protection class according to IEC 60601) Class II
  - Application parts of Type BF
  - Degree of protection by housing IP22

### Electrical Specification

- **Operating voltage:**
  - AIRcon Gen2 101200 (220V~ - 240V~)
  - AIRcon Gen2 101201 (110V~ - 120V~)
- **Mains frequency:** 50Hz / 60Hz
- **Power consumption:** max. 315VA
- **Heating plate:** 170W
- **Inspiratory tube heater:** 22V~, 30W

### Operating Data

- **Warm-up time:** max. 30 min.
- **Recommended flowrate:** 2 to 80l/min
- **Humidifier system output:**
  - > 33mg/l in the range of 2 – 60l/min
  - > 10mg/l in the range of 2 – 80l/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

### Application parts

- Heated wire breathing systems
- Temperature probe
- Heating wire adapter

## WILamed GmbH

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### Humidification system

- **Gas leakage at max. operating pressure:** < 10ml/min<sup>(2)</sup>
- **Gas leakage at 60 mbar:**
  - Adults < 70ml/min<sup>(2)</sup>
  - Children < 40ml/min<sup>(2)</sup>
  - Neonates < 30ml/min<sup>(2)</sup>
- **Pressure drop:** < 0.02 (mbar\*min)/l<sup>(2)</sup>
- **Internal Compliance:**
  - Adults 0.5 – 5ml/mbar<sup>(2)</sup>
  - Children 0.5 – 4ml/mbar<sup>(2)</sup>
  - Neonates 0.5 – 1.5ml/mbar<sup>(2)</sup>
- **Flow resistance:**
  - Adults < 0.06mbar/l/min at 30l/min
  - Children < 0.12mbar/l/min at 15l/min
  - Neonates < 0.74mbar/l/min at 2.5l/min

### Environment

- **Temperature:**
  - when operating: +18°C to +26°C
  - during storage and transport: -25°C to +70°C
- **Gas inlet temperature:** +18°C to +26°C<sup>(3)</sup>
- **Humidity:**
  - when operating: 0 – 93% non-condensing
  - during storage and transport: 0 – 93% non-condensing
- **Atmospheric pressure:**
  - in operation 700hPa – 1060hPa
  - during storage and transport: 500hPa – 1200hPa

### Measurement Range

- **Temperature sensor:**
  - 9.5°C – 50°C (patient-side)
  - 5°C – 80°C (humidification chamber)

- <sup>(1)</sup> Unless the user instructions for the humidification chamber used prescribes lower maximum pressures
- <sup>(2)</sup> Depending on the humidification chamber used and the breathing tube system used
- <sup>(3)</sup> The maximum gas outlet temperature of the therapy device at 23°C ambient temperature is 32°C