

WILAméd

Equipment for Professionals

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**AIRcon
Respiratory
Humidifier**

CE 1275

WILAméd

Active humidification redefined

The humidifier AIRcon combines modern technology and innovative design in a high performance unit. Mechanically ventilated patients are provided with optimally conditioned respiratory gas. The humidifier AIRcon fulfills medical requirements as well as economic market expectations.

With the humidifier AIRcon, a new overall concept for all patient groups and many respiratory therapies is available. Due to its innovative functions and the optimized accessories, the humidifier AIRcon is perfectly adapted for clinical and extra-clinical use.



Scope of Delivery

P/N	Description
100.900	Humidifier AIRcon, 230V
100.910	temperature probe
100.929	heating wire adapter (i+e)*
100.930	country-specific power cord

Mounting

P/N	Description
550.226	bracket (diameter 25 mm) for standard rail (30 mm x 10 mm)
550.301	pole clamp bracket for columns (25 mm x 45 mm)
550.220	mounting kit for standard rail
550.227	ventilator cart

Accessories and Consumables

P/N	Description
100.942	heating wire adapter (i)*
500.300	autofill humidifier chamber C200AF AIRcon
500.185	sterile water WILAqua, 2000 ml bag

Our breathing tube 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

Everything from one source

AIRcon provides a complete respiratory humidification system in combination with its specially designed humidifier chambers and breathing tube systems. It is suitable for mechanically ventilated patients requiring individual therapy with high performance and safety.

User-friendly

- 3.5" TFT colour display with automatic dimmer
- logical menu navigation with symbols and pictograms
- treatment pause function

Smart performance

- 3 function modes (IV, NIV, FREE)
- expiratory tube: adjustable heating performance
- individual adjustment of humidification performance
- economical energy consumption

Safe

- elaborated alarm management
- automatic water level monitoring
- incident and alarm protocol (data exportable to PC)

High quality

- protection Class II for clinical and extra-clinical use
- less maintenance, no hidden costs
- manufacturing "Made in Germany"

Efficient

- suitable for all common ventilators
- ready for immediate use
- extended accessory range





Technical information

- **Dimensions:** H 170 mm x W 145 mm x D 200 mm
- **Weight:** Approx. 2.8 kg without chamber
- **Classification:** Device (protection class pursuant to IEC 60601) Class II
- Application parts type BF
- Protection type through IP22 housing

Electrical Information

- **Supply voltage:** 220 V~ to 240 V~
- **Network frequency:** 50 Hz / 60 Hz
- **Power consumption:** 280 VA max
- **Heating plate:** 170 W
- **Breathing tube:** Inspiratory and expiratory heating, each 22 V~, 30 W

Operation Information

- Heat up time under 30 minutes, generally 10–15 min.
- Recommended flow rate: 1 to 80 l/min.
- Humidity $\geq 33\text{mg/l}$ in the range 1 to 80 l/min at room temperature $\geq 33^\circ\text{C}$
- Maximal operating pressure 200 mbar, to the extent that the operating instructions for the humidifier chamber utilised do not indicate a lower maximum pressure ¹
- Gas leakage in the dampener system at maximum operating pressure $< 1\text{ ml/min}^1$
- Pressure fall via the dampener system is typically under 0.3 mbar/m of breathing tube length (22 mm tube system, humidifier chamber with nebuliser) ¹
- Internal compliance of dampener system is typically under $5 \frac{\text{ml}}{\text{kPa}\cdot\text{m}}$ of breathing tube length ¹
- Continual noise less than 50 dBA (1 m)

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Environment

- Acceptable environmental temperature: from $+10^\circ\text{C}$ to $+35^\circ\text{C}$
- Acceptable storage temperature: from -20°C to $+60^\circ\text{C}$
- Acceptable humidity in operation and in storage: 15% – 95% non-condensing
- Humidifier performance is reduced if ventilation unit is delivering respiratory gas at a higher temperature. Respiratory gas temperature in humidifier chamber should be cooler than set chamber temperature.

Temperature settings (Modes)

- **IV** (invasive use) chamber: 37°C max., near patient 39°C
- **NIV** (non-invasive use): chamber 31°C max., near patient 34°C
- **FREE** (freely adjustable temperatures): chamber 30°C – 42.5°C ; near patient 28°C – 40.5°C
- Heater power can be adjusted in 5 levels when using an expiratory heater.

Measurement Range

- Display via TFT display
- Tolerance of temperature measurement: $\pm 2^\circ\text{C}$

¹ depending on the humidifier chamber and the tubing system being used