

## Press Release

No. 18 / March 18th 2021

Page 1 / 2

# A tropical climate for airways at the click of a button

Aquapor H300 assists in the mucociliary clearance of the bronchi

- Three presets of variable humidification
- Water chamber with automatic filling level sensor

**Lübeck** - Invasive ventilation frequently relies on breathing gas that is directly administered to a patient's lungs via a tube from a central or mobile supply unit. But, the air arriving in the lungs tends to be rather cool and dry. This is because the tube circumvents the upper airways, which can then no longer serve their function of naturally conditioning the breathing gas. The insufficient temperature and humidity of the breathing gas cause the bronchial cilia, responsible for the removal of particulates, e.g., germs, to also stop functioning properly. The results range from changes to the mucous membranes to more serious complications.<sup>1/2</sup> The Aquapor H300 compensates for these effects by humidifying and warming the breathing gas when connected between the ventilator and the patient. This protects the mucous membranes against drying out and maintains their cleansing function. For the patient, it means that the risk of atelectasis and infections decreases.<sup>3</sup>

The humidity can be set at different levels. The operating modes NIV (non-invasive), IV (invasive) and Free support different types of therapy. To prevent condensate in the expiratory hose, the Aquapor H300 also features an adjustable heat output. The Aquapor H300 can be used in intensive care units for adult and pediatric patients including neonates.

The Aquapor H300 is manufactured by Drägerwerk AG & Co. KGaA.

**Dräger. Technology for Life®**

<sup>1</sup> Weller L. (1997) Ventilation während der Anästhesie (ventilation during anesthesia). In: List W.F., Osswald P.M. (eds) *Komplikationen in der Anästhesie (complications in anesthetics)*. Springer, Berlin, Heidelberg. [https://doi.org/10.1007/978-3-642-97938-5\\_24](https://doi.org/10.1007/978-3-642-97938-5_24)

<sup>2</sup> Williams R, Rankin N, Smith T, Galler D, Seakins P. Relationship between the humidity and temperature of inspired gas and the function of the airway mucosa. *Critical Care Medicine* 1996; 24(11):1920-1929

<sup>3</sup> Lorente L, Lecuona M, M, Jiménez A, Sierra A. Ventilator-associated pneumonia using a heated humidifier or a heat and moisture exchanger: a randomized controlled trial. *Crit Care*. 2006; 10(4): R116

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Page 2 / 2

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### Images:

	The new breathing gas humidifier Aquapor H300 (© Drägerwerk AG & Co. KGaA).
	The Aquapor H300 - ensures warm and humid breathing gas between ventilator and patient (© Drägerwerk AG & Co. KGaA).

Please visit our Press Center for further information and pictures:

[https:// www.draeger.com/de\\_corp/Presse](https://www.draeger.com/de_corp/Presse)

Note: The product mentioned in this press release will not initially be available in all countries.

For more information on availability in countries other than Germany, please visit the website for your country or contact the local Dräger Sales organization.

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