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Intelligent humidification with the new HAMILTON-H900

With improved ergonomics, ease of use, and facilitated handling, the advanced HAMILTON-H900 makes humidification one less thing to worry about in critical care ventilation.

As a manufacturer of Intelligent Ventilation solutions, Hamilton Medical provides caregivers with technologies that allow them to focus on the important aspects of patient care. To expand the Intelligent Ventilation concepts to devices directly involved in critical care ventilation was the next logical step. "Humidification is an important part of respiratory care. When we developed the HAMILTON-H900 humidifier, we talked to many clinicians to understand what they would improve in conventional humidification," explains Jens Hallek, President of Hamilton Medical. Easier handling of circuits, cables and connections, an improved user interface, reduction of rain-out, and increased safety were the most requested enhancements. The HAMILTON-H900 aims at improving humidification in exactly these areas.

Easy to handle

The HAMILTON-H900 comprises only two components, which are delivered preassembled and ready to use: The wall-heated breathing set including the new all-in-one connectors, integrated temperature probe, water refill tube, Y-piece, and water chamber, and the humidifier base with the user interface and the heating plate. This saves time, increases efficiency, and facilitates the handling of the humidifier, as well as reducing the risk of contamination. With no need to worry about extra cables to connect or disconnect anymore, the caregiver only needs to slide the water chamber into the humidifier and connect the breathing circuit to the patient.

Optimal rain-out and temperature control

The advanced breathing circuits for the HAMILTON-H900 integrate the heater wires into the circuit wall. This eliminates the cold interface between heated breathing gas and ambient temperatures, and leads to significantly reduced condensation and rain-out effects in the breathing circuit. To perfectly adapt the humidification therapy to the individual patient and environmental conditions, the HAMILTON-H900 humidifier allows for manual adjustment of the chamber temperature and temperature gradient. Having too much condensation in the tubing can, therefore, be easily avoided by adjusting the temperature gradient. By reducing the need to open the circuit to drain condensate, the HAMILTON-H900 minimizes the potential for the spread of pathogens associated with the development of ventilator-associated pneumonia (VAP).

Ergonomic and intuitive user interface

Due to the ergonomic design, the user interface can be easily seen and operated from a standing position, and provides all the information the caregiver needs at a glance. The large, high-contrast LCD display provides excellent readability, even in direct sunlight. Alarms are displayed with self-explanatory icons on the LCD display, and can be heard and seen from afar thanks to the bright alarm lamps and audible alarm.

Remote control from the ventilator*

The unique ventilator connectivity option allows control of the humidifier from any compatible ventilator. All controls, monitoring parameters, and alarms are controllable via the ventilator display. Full integration of humidifier monitoring with a patient data management system is also provided.

*not yet available in all markets

The HAMILTON-H900 is currently available in EU and EFTA member states and other countries that recognize CE marking. It is not yet available in other countries, including the USA.

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Picture legends:

Picture 1: HAMILTON-H900 humidifier on neutral background

Picture 2: Preassembled breathing set

Picture 3: HAMILTON-H900 user interface

Picture 4: HAMILTON-H900 on patient

Picture 5: Heater wires in breathing circuit wall (lateral cut)

Picture 6: Remote control over the ventilator display

About Hamilton Medical

In 1983, Hamilton Medical was founded with a vision: To develop Intelligent Ventilation solutions that make life easier for patients in critical care and for the people who care for them. Today, Hamilton Medical is a leading manufacturer of critical care ventilation solutions for a variety of patient populations, applications, and environments.

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