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Intelligent ventilation for neonates

With the new Neonatal option the HAMILTON-C1 now also provides optimal ventilation therapy for your tiniest and most fragile patients

The high-performance capabilities of the HAMILTON-C1 with the new Neonatal option include lung protective strategies and adaptive ventilation modes to ensure that each baby receives treatment tailored to its specific needs. Requiring only a minimum of space, the HAMILTON-C1 combines high reliability, ease of use and maximum mobility with optimal performance for your most fragile patients.

Tidal volumes as low as 2 ml

With tidal volumes as low as 2 ml, the HAMILTON-C1 provides effective, safe, and lung-protective ventilation for even the smallest preterm infants.¹⁾ The proximal flow sensor, specifically developed for neonates, precisely measures the pressure, volume, and flow directly at the infant's airway opening and, therefore, ensures the required trigger sensitivity. This provides improved synchronization and less work of breathing.

Optimal synchronization even with uncuffed tubes

Leaks are one of the biggest problems in the ventilation of neonates, due to the use of uncuffed tubes. The intelligent leak compensation automatically adjusts the inspiratory and expiratory trigger sensitivity to potential leaks. This enables optimal synchronization with the neonate's breathing pattern.

Hamilton Medical nCPAP - Fewer interventions, increased safety

The nCPAP modes of the HAMILTON-C1 are designed such that you only need to set the desired CPAP pressure. The flow is subsequently adjusted automatically based on the patient condition and potential leaks. This prevents unintended peak pressures and guarantees highly efficient leak compensation. Flow adjustment occurs very rapidly due to near-patient pressure measurement and the high sensitivity of the measurement.

*Currently available in EU and EFTA member states and other countries that recognize CE marking. Regarding availability in other markets, contact Hamilton Medical. Not yet available in the USA.

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Picture legends:



Picture 1: Mother and Baby with nCPAP



Picture 2: HAMILTON-C1 with nurse

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.

Contact

Hamilton Medical AG
Kathrin Elsner, Marketing Communications
Via Crusch 8, 7402 Bonaduz / Switzerland
Phone direct: +41 (0)81 660 68 99
kelsner@hamilton-medical.ch
www.hamilton-medical.com