

Nr. 02/2014-09-09_EN

Intelligent transport ventilation for neonates

Hamilton Medical now offers a high-end ventilation solution for your most fragile patients with the new neonatal option* for the HAMILTON-T1 transport ventilator

The HAMILTON-T1 with neonatal option is a high-end transport ventilator that provides the best possible ventilation therapy for your smallest and most vulnerable patients. During transport, the HAMILTON-T1 delivers the same performance as a fully featured NICU ventilator at the bedside. Its unique features make it one of the best transport ventilators for neonates.

Optimized performance for neonates

Hamilton Medical has specially adapted the HAMILTON-T1 hardware and software to optimally meet the needs of ventilated neonates. Supporting tidal volumes of just 2 ml, the HAMILTON-T1 allows for effective, safe, and lung-protective ventilation for even the smallest preemies. The reliable and robust neonatal flow sensor accurately measures pressure, volume, and flow proximal to the patient. This guarantees the required sensitivity and response time, and prevents dead space ventilation. Therefore, the patient is better synchronized and the work of breathing (WOB) is reduced. The new neonatal expiratory valve can balance even the smallest differences in pressure and offers the neonate the possibility to breathe spontaneously in each phase of a controlled breathing cycle.

nCPAP with demand flow technology

In addition to all modern neonatal ventilation modes, the HAMILTON-T1 offers a new generation of nCPAP. In the new nCPAP-PC (pressure control) mode, you only define the desired CPAP target value for your patient and the ventilator automatically and continuously adapts the required flow to the patient's condition and possible leaks. Thanks to the demand flow technology, your patient will receive only as much flow as is necessary to obtain the set CPAP target. This reduces WOB, reduces the need for user interventions and ensures optimal leak compensation. You will also require less oxygen for transport and noise caused by the ventilator decreases distinctively.

Unlimited mobility

With approvals and certificates for most types of transport and situations the HAMILTON-T1 is an ideal escort for your tiniest patients, reliable everywhere, both inside and outside the hospital, in

the air as well as on the ground. The built-in high-performance turbine makes it completely independent of compressed air, gas cylinders or compressors. This saves weight and space and even noninvasively ventilated neonates can be transported over long distances. The combination of a built-in and an optional hot-swappable battery provides a battery operation of more than 9 hours. This can be extended indefinitely with additional hot-swappable batteries.

*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.

Characters incl. spaces 2'958

Words 437

Picture legends:

Picture 1: Baby with nCPAP_large

Picture 2: HAMILTON-T1_Neontal_inside ambulance

Picture 3: HAMILTON-T1_Neontal_outside ambulance

Picture 4: HAMILTON-T1_Neontal_outside hospital

Picture 5: HAMILTON-T1_Neontal_inside hospital

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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