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## HAMILTON-C1 neo: Comprehensive Care for Newborns in Just One Device



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**The new HAMILTON-C1 neo combines a range of therapy options with maximum mobility in a highly versatile ventilator designed specifically for neonates.**

With over 30 years of experience in developing intelligent ventilation solutions for patients of all ages,

Hamilton Medical has now channeled that wealth of expertise and proven neonatal technology into their most compact device to create the HAMILTON-C1 neo. Combining invasive and noninvasive modes with the options of nCPAP and high flow oxygen therapy\* in a very small footprint, this dedicated neonatal ventilator makes it easier for caregivers to help the most fragile of patients.

### **Lung Protective Ventilation**

The HAMILTON-C1 neo provides tidal volumes as low as 2 ml for effective, safe, and lung-protective ventilation even for the smallest patients. Both the proximal flow sensor, designed to minimize the dead space, and the neonatal expiratory valve were developed specifically for neonates. The precise measurement of pressure volume, and flow directly at the airway opening ensures the required sensitivity and a quick response time. Your most fragile patients should benefit from a better synchronization and less work of breathing as a result.

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### **Improved Ventilation and Oxygenation**

With the enhancement of an integrated high flow oxygen therapy mode, the device gives you a variety of therapy options. In just a few steps, you can swap the interface and use the same device and breathing circuit to accommodate the changing needs of your neonatal patients.

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### Free Breathing in Each Ventilation Phase

The nCPAP modes of the HAMILTON-C1 are engineered in such a way that you only need to set the desired CPAP/PEEP. 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. In addition to the standard nCPAP mode, the HAMILTON-C1 neo also features the biphasic nCPAP-PC (pressure controlled) mode. This mode allows you to set two pressure levels as well as the rate and inspiratory time.

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Its versatility makes the HAMILTON-C1 neo to an ideal companion for your smallest patients in various situations such as the delivery room and intensive care unit, as well as during intrahospital transport.

\*Not available in all countries. Depending on your country, some features may be available as options and may have different specifications than described.

Source & Image Credit: [Hamilton Medical](#)

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