

HAMILTON-C6

The next generation of intelligent ICU ventilators







We live for ventilation technology

We live for ventilation technology that helps caregivers improve the lives of their critically ill patients. We believe that innovation is essential to meet the demands of critical care. To us, innovation is about realizing visionary new ideas and continuously improving existing products, always keeping patient safety and ease of use in focus.

We learn from our customers and from multi-disciplinary experts. And we invest in long-term research and development. We develop Intelligent Ventilation solutions: devices and consumables for the ventilation of all critically ill patients – from neonates to adults.

Jans Falled

Jens Hallek President

Contraction Republic Republic

Bob Hamilton Member of the board

Meet the HAMILTON-C6

The HAMILTON-C6 represents a new generation of high-end ventilators. The combination of modularity, ease of use, mobility, and advanced features allows you to individualize your patient's ventilation therapy:

- ✓ State-of-the-art ventilation modes for adult, pediatric, and neonatal patients
- ✓ Adaptive, lung-protective ventilation modes ASV[®] and INTELLiVENT[®]-ASV
- ✓ IntelliSync+ real-time patient synchronization
- ✓ High-performance noninvasive ventilation
- ✓ High flow oxygen therapy
- P/V Tool Pro for lung assessment and recruitment
- ✓ Transpulmonary pressure measurement
- ✓ Integrated IntelliCuff[®] pressure controller
- Integrated HAMILTON-H900 humidifier control



Slender, flexible, convenient

Flexible device configuration

The HAMILTON-C6 adapts to your individual user environment. Mount it on a trolley, with the interaction panel on top or in front, or use the shelf-mounted version with the interaction panel on the side or mounted on the pendant system.

For intrahospital transport

Thanks to the slender frame, an integrated O2 cylinder carrier, and the high-performance turbine, the HAMILTON-C6 can stay at your patient's side for intrahospital transports.

Ergonomic maneuverability

With a compact footprint and high-quality trolley wheels the HAMILTON-C6 is designed for easy handling and maneuverability.





Ease of use

In close cooperation with users and ventilation experts, our engineers have designed a user interface that is particularly intuitive. Switching between the HAMILTON-C6 and all other Hamilton Medical ventilators is easy because they are all operated according to the same principles.

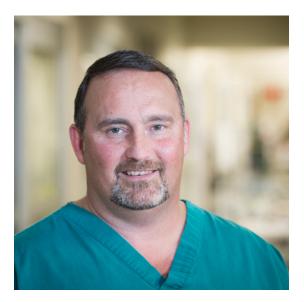
The Ventilation Cockpit on the HAMILTON-C6 consolidates the monitoring data and displays it as intuitive graphics. They give a quick overview of the patient's current ventilation status and provide a reliable basis for therapy decisions.

The 17-inch, high-resolution monitor with capacitive touch screen was designed for smooth and fast operation.

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In my experience the Dynamic Lung is very helpful, because not everybody can always understand the numbers, especially inexperienced therapists. They cannot always understand the data, but they can understand the picture.

Craig Jolly, Adult Clinical Education Coordinator University Medical Center, Lubbock (TX), USA



The Ventilation Cockpit

Main monitoring parameters

All of the main monitoring parameters at a glance. The large characters allow you to see them even from a distance.

² Dynamic Lung

One quick look shows you tidal volume, lung compliance, patient triggering, resistance in real-time, cuff pressure, and pulse. The lungs expand and contract in synchrony with the actual breaths.

³ Vent Status

The Vent Status panel displays six parameters related to the patient's ventilator dependence. When all values are in the weaning zone, the panel is framed in green, indicating that spontaneous breathing trials or extubation can be considered.

⁴ Direct access to main controls

Access and adjust the most important controls for the current mode directly on the main display.



Individualized, lung-protective ventilation

The features available on the HAMILTON-C6 help you individualize your patient's ventilation and to implement a lung-protective ventilation strategy.

Adaptive, lung-protective ventilation with ASV

- ✓ Supports the earliest possible spontaneous breathing by the patient^{1, 2}
- ✓ Shortens the ventilation time in various patient groups^{1, 2}

Adaptive, lung-protective ventilation with INTELLiVENT-ASV

- Rated best among all evaluated modes in terms of capabilities relating to safety, comfort, and weaning³
- ✓ Follows the current recommendations for lung-protective ventilation in terms of tidal volumes and driving pressure⁴

Lung assessment and recruitment with the P/V Tool Pro

- ✓ Hysteresis of the pressure/volume curve can be used for assessing the recruitability of the lung at the bedside⁵
- \checkmark Has been shown to open the lung in the majority of patients with early ARDS⁶

Synchronization based on waveform analysis with IntelliSync+

- ✓ Waveform analysis is a reliable, accurate, and reproducible method for assessing patientventilator interaction⁷
- ✓ In terms of cycling, IntelliSync+ performs at least as well as ETS optimized by clinicians⁸

Automatic cuff pressure control with IntelliCuff

✓ Continuous cuff pressure control can decrease microaspiration and VAP^{9, 10}

Transpulmonary pressure measurement

- PEEP set based on transpulmonary pressure can improve compliance and oxygenation in ARDS patients¹¹
- ✓ Transpulmonary pressure measurement can avoid the use of ECMO in the most severe patients¹²

1 Kirakli C. Eur Respir J. 2011 Oct;38(4):774-80. | 2 Chen CW. Respir Care. 2011 Jul;56(7):976-83. | 3 Mireles-Cabodevila E. Respir Care. 2013 Feb;58(2):348-66. *Erratum in: Respir Care. 2013 Apr;58(4):e51. | 4 Arnal JM. Intensive Care Med Exp 2016, 4(Suppl 1):A602. | 5 Demory D. Intensive Care Med. 2008 Nov;34(11):2019-25. | 6 Borges JB. Am J Respir Crit Care Med. 2006 Aug 1;174(3):268-78. | 7 Mojoli F. Intensive Care Med Exp 2016, 4(Suppl 1):A1168. | 8 Mojoli F. Intensive Care Med Exp 2016, 4(Suppl 1):A1164. | 9 Lorente L. Crit Care. 2014 Apr 21;18(2):R77. | 10 Nseir S. Am J Respir Crit Care Med. 2001 Nov 1;184(9):1041-7. | 11 Talmor D. N Engl J Med. 2008 Nov 13;359(20):2095-104. | 12 Grasso S. Intensive Care Med. 2012 Mar;38(3):395-403.





continuously adjusts breath-by-breath, the respiratory rate, tidal volume, and inspiratory time depending on the patient's lung mechanics and effort, 24 hours a day, from intubation to extubation.



INTELLIVENT-ASV

continuously controls the ventilation and oxygenation of the patient. It sets the minute ventilation, PEEP, and Oxygen based on the targets set by the clinician, and on physiological input from the patient. INTELLiVENT-ASV also provides tools to promote early, automated weaning (Quick Wean).



P/V Tool Pro for lung assessment and recruitment

helps you assess recruitability and set PEEP based on respiratory mechanics. It also provides a repeatable method for quickly performing recruitment maneuvers.



IntelliSync+ keeps an eye on patient-ventilator synchrony

by continuously analyzing waveform shapes hundreds of times per second. This allows IntelliSync+ to detect patient efforts and cycling immediately, and initiate inspiration and expiration in real-time. IntelliSync+ applies to invasive and noninvasive ventilation, regardless of the ventilation mode.



IntelliCuff cuff pressure controller

continuously measures and automatically maintains the user-set cuff pressure of an endotracheal or tracheostomy tube in real-time.



Transpulmonary pressure measurement

allows optimization of PEEP, tidal volume, and inspiratory pressure. Use it in combination with P/V Tool Pro to assess lung recruitability more precisely and perform recruitment maneuvers.

Features and options



State-of-the-art ventilation modes



High-performance turbine with lifelong warranty



High flow oxygen therapy



Integrated control for IntelliCuff pressure controller



Integrated pneumatic nebulizer, optional Aerogen® nebulizer

Integrated control for

HAMILTON-H900 humidifier

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Pulse oximetry (SpO2 and pulse measurement)



Serial interface for connection to electronic patient data records, and patient monitors



Mainstream (volumetric) and sidestream capnography

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On-screen help for alarm troubleshooting



Continuous monitoring of driving pressure

From the ventilation specialist

E-learning

Hamilton Medical College provides free and open e-learning on mechanical ventilation and ventilators. Join at college.hamilton-medical.com

Universal ventilator consumables

Our accessories and consumables are specially developed for the highest possible patient safety and ease of use. Choose between reusable and disposable parts, according to your institutional policies.

Peripheral devices

Our ventilation portfolio includes an active humidifier, the HAMILTON-H900, as well as the automatic cuff pressure controller, IntelliCuff. Both devices may be used with all kinds of mechanical ventilators.





More information and free software simulation: www.hamilton-C6.com





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