

The new HAMILTON-C6

Supporting your entire ventilation workflow

HAMILTON MEDICAL



Our passion. Intelligent Ventilation solutions

Ever since we were founded in 1983, our focus has been on supporting the frontline heroes of critical care - with ventilation technologies that are safe, effective, and lung-protective. And we want to lessen the load for those who make extraordinary efforts every day, helping seriously ill patients fight their way back to health.

That is why we are committed to helping medical teams deliver the best respiratory care - to anyone, anywhere. That commitment is present in everything we do.



Bob Hamilton
CEO

Meet the new HAMILTON-C6

The new HAMILTON-C6 offers more than just individual features; it's your entire workflow solution. It supports you at every step of the patient journey, so you can focus on what really matters — your patient.

- 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® for lung assessment and recruitment
- Transpulmonary pressure measurement
- O2 assist
- Integrated IntelliCuff® pressure controller
- Remote access to humidifier controls and status



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.



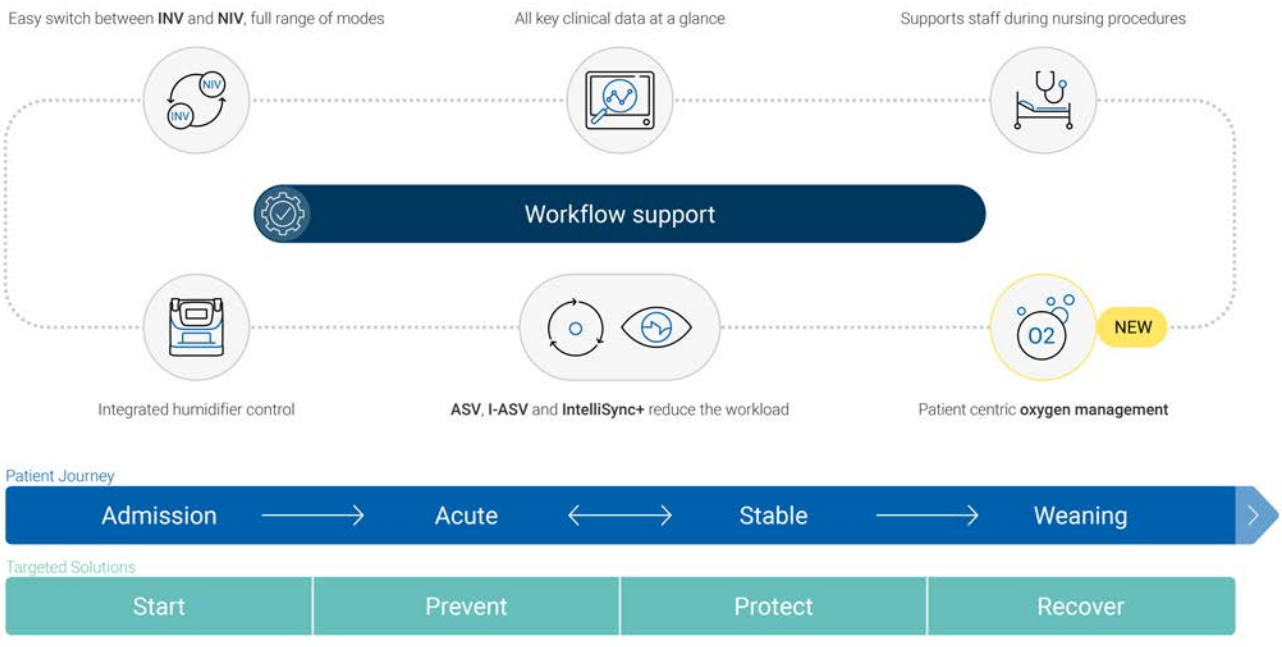
The new HAMILTON-C6


ASV
18
7.9
453
18
0.60
Target
Modes
Controls
Alarms
HAMILTON-C6
37.0

Workflow new Layout

The new HAMILTON-C6 supports you along the entire patient journey - from admission right through to weaning - with advanced tools and functionalities to facilitate your complete workflow. In addition, we have developed new, targeted solutions designed to aid you at each phase of that journey.

Instead of focusing on isolated features, we have taken a holistic approach that transforms fragmented tasks into a streamlined, intuitive process. The result is an entire workflow solution designed for greater operational efficiency, even in the most demanding care environments.



The Ventilation Cockpit

1 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 Lung Impact panel

The Lung Impact panel provides a visual representation of four key parameters for lung-protective ventilation. It enables you to monitor these critical values at a glance and make informed decisions in real time.

4 App World

The App World gives you quick, two-step access to the main ventilator functions in a single overview window. With intuitive icons and customizable favorites, the App World simplifies your ventilation workflow when every second counts.



Individualized, lung-protective ventilation

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]

Your bedside assistant INTELLiVENT-ASV

- ✓ Requires fewer manual adjustments than conventional ventilation, consequently reducing the workload for the healthcare team[3]
- ✓ Follows the latest recommendations for lung-protective ventilation in terms of tidal volumes, driving pressure, and mechanical power[4, 5, 6]

Lung assessment and recruitment with the P/V Tool

- ✓ Hysteresis of the pressure/volume curve can be used for assessing the recruitability of the lung at the bedside[7]
- ✓ May reduce the need for assessing recruitability with a CT scan, when using the PV loop in early onset ARDS[8]

Synchronization based on waveform analysis with IntelliSync+

- ✓ Waveform analysis is a reliable, accurate, and reproducible method for assessing patient-ventilator interaction[9]
- ✓ In terms of cycling, IntelliSync+ performs at least as well as ETS optimized by clinicians[10]

Your precision-care assistant O2 assist

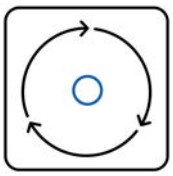
- ✓ O2 assist helps maintain your patient's SpO2 levels within individually set target ranges by continuously adjusting oxygen delivery [11, 12]
- ✓ Compatible with all invasive and noninvasive ventilation modes, as well as high flow oxygen therapy [13]

Automatic cuff pressure control with IntelliCuff

- ✓ Continuous cuff pressure control can decrease microaspiration and VAP[14, 15]

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[1] Kirakli C. Eur Respir J. 2011 Oct;38(4):774-80
[2] Chen CW. Respir Care. 2011 Jul;56(7):976-83
[3] Bialais, E., et al., Minerva Anestesiol, 2016. 82(6): p. 657-68
[4] Arnal JM. Intensive Care Med Exp 2016, 4(Suppl 1):A602
[5] Arnal, J.-M., M. Saoli, and A. Garnero, Heart & Lung: The Journal of Cardiopulmonary and Acute Care. 2019 Nov
[6] Buiteman-Kruizinga LA. Crit Care Explor. 2021 Feb 15;3(2):e0335
[7] Demory D. Intensive Care Med. 2008 Nov;34(11):2019-25
[8] Chiumello D. Crit Care Med. 2020 Oct;48(10):1494-1502
[9] Mojoli F. Intensive Care Med Exp 2016, 4(Suppl 1):A1168
[10] Mojoli F. Intensive Care Med Exp 2016, 4(Suppl 1):A1164
[11] Roca O. Crit Care. 2022 Apr 14;26(1):108
[12] Atakul G. Front Med (Lausanne) 2024 Sep;10:11:1426969
[13] Except CPR and INTELLiVENT-ASV
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Adaptive Support Ventilation (ASV)

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



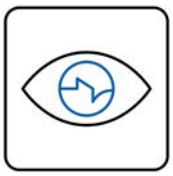
INTELLiVENT-ASV, your bedside assistant

is an advanced ventilation mode based on ASV. The clinician defines the clinical goal for PetCO2 and SpO2. INTELLiVENT-ASV then adjusts CO2 elimination and oxygenation, and keeps the patient within the predefined ranges. Quick Wean supports the clinician in weaning patients from mechanical ventilation.



P/V Tool 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.



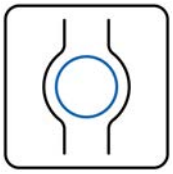
IntelliSync+ keeps an eye on patient-ventilator synchrony

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.



O2 assist

is available at the touch of a button. Take control of oxygen management by setting individualized SpO2 targets for your patients. The system continuously adjusts the oxygen supply to meet your patient's real-time needs, potentially protecting against both hyperoxemia and hypoxemia. This enables you to dedicate more time to other important tasks at the bedside.



IntelliCuff pressure controller

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

Features and options



State-of-the-art ventilation modes



High-performance turbine with warranty for the expected lifetime



Integrated high flow oxygen therapy



Remote access to HAMILTON-H900 controls and status



Integrated pneumatic and optional Aerogen nebulizer



Serial interface for connection to PDMS or patient monitors



Pulse oximetry
(SpO2 and pulse measurement)



On-screen help for alarm troubleshooting



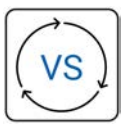
Mainstream (volumetric) and sidestream capnography



CPR ventilation



Continuous monitoring of driving pressure



Volume Support (VS) for flexible weaning



Adult, pediatric, and neonatal ventilation



Hold maneuver for negative inspiratory force (NIF) measurement

From the ventilation specialist

Academy

Our Academy provides free, open-access educational content about mechanical ventilation and ventilators. Join here: www.hamilton-medical.com/Academy.

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 our automatic cuff pressure controller, IntelliCuff. Both devices may be used with all kinds of mechanical ventilators.



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

Manufacturer:
Hamilton Medical AG
Via Crusch 8, 7402 Bonaduz, Switzerland
+41 58 610 10 20
info@hamilton-medical.com
www.hamilton-medical.com

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