

High flow oxygen therapy



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Intelligent Ventilation since 1983



The main effect of delivering high flow oxygen through a nasal cannula is to continuously flush out the nasopharyngeal dead space, allowing better CO₂ clearance and improving alveolar ventilation and oxygenation.¹

Oxygenation is also improved by the lower degree of dilution with ambient air when compared to conventional oxygen therapy.² In addition, high flow oxygen therapy generates a flow-dependent positive airway pressure, which reaches its maximum at the end of expiration.³

High flow oxygen therapy can minimize the inspiratory resistance associated with the nasopharynx by providing nasopharyngeal gas flows that match or exceed a patient's peak inspiratory flow. The resulting reduction in resistance translates into a decrease in resistive work of breathing.⁴

Compared with conventional oxygen therapy or noninvasive ventilation, the use of high flow oxygen therapy has been shown to reduce the need for intubation⁵, and lower the risk of reintubation within 72 hours.⁶

1 W. Chatila, Chest, 126 (2004), pp. 1108–1115. | 2 Ritchie et al. A. Int. Care. 2011/Masclans et al. Clin Pulm Med. 2012 | 3 Parke RL, McG. SP. Respir Care. 2013;58(10):1621– doi:10.4187/respcare.02358. | 4 J.D. Ricard, Minerva Anesthesiol, 78 (2012), pp. 836–841. | 5 Frat JP, N Engl J Med. 2015 Jun 4;372(23):2185-96. doi: 10.1056/NEJMoa1503326. Epub 2015 May 17. | 6 Hernández G., JAMA. 2016 Mar 15. doi: 10.1001/jama.2016.2711. [Epub ahead of print].

High flow oxygen therapy with Hamilton Medical







All our ventilators* offer the option of an integrated high flow oxygen therapy mode for all patient groups with single or dual limb circuits.

In just a few steps, you can switch between invasive or noninvasive ventilation and high flow oxygen therapy without changing the device or even the breathing circuit. You just need to change the ventilator mode and the patient interface.

- ✓ Safety features including a pop-off valve and messages about interface suitability
- ✓ Humidification with the HAMILTON-H900 for greater patient comfort
- ✓ Integrated Aerogen^s nebulizer
- ✓ Integrated humidifier control**
- ✓ SpO2 monitoring***
- ✓ Availability of different patient interfaces on www.hamilton-medical.com/e-catalog

Flow rates per device

Our ventilators provide gas at specific flow rates for adult/pediatric patients and for neonates:

	  	  
HAMILTON-C 1/T1/MR1 HAMILTON-C3/C6	2-12 l/min	2-80 l/min
HAMILTON-G5/S1	1-12 l/min	1-60 l/min

* except HAMILTON-C2
** optional with HAMILTON-G5/S1 and HAMILTON-C6 only
*** optional with HAMILTON-G5/S1, HAMILTON-C1/T1, and HAMILTON-C6 only



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