



# HAMILTON-G5/S1

## High flow oxygen therapy

The HAMILTON-G5/S1 now offers high flow oxygen therapy for all patient populations. This allows you to easily switch between invasive or noninvasive ventilation and high flow oxygen therapy without needing to change the device or even the breathing circuit. You just need to change the ventilator mode and the patient interface.

Especially in combination with the HAMILTON-H900 humidifier, the HAMILTON-G5/S1 provides heated and humidified oxygen/air mixtures with flow rates from 1 – 60 l/min for adult/pediatric patients and 1 – 12 l/min for neonates.

Compared with conventional oxygen therapy or non-invasive ventilation, the use of high flow oxygen therapy has been shown to reduce the need for intubation<sup>1)</sup>, and the risk of reintubation within 72 hours.<sup>2)</sup>



# Improved ventilation and oxygenation

## Pharyngeal dead space washout

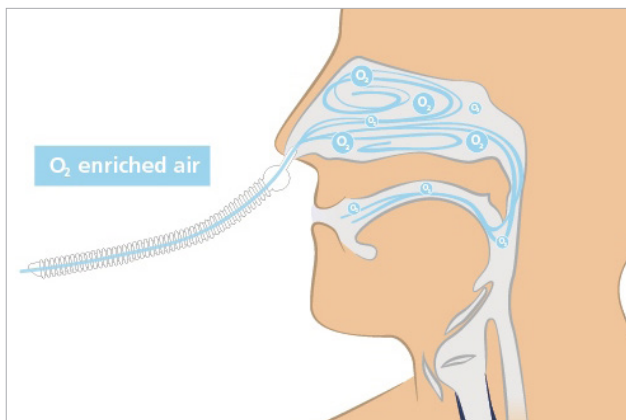
The main effect of delivering high flow oxygen directly into the nasopharynx is to wash out CO<sub>2</sub> and reduce CO<sub>2</sub> re-breathing. This allows the dead space to decrease and increases the alveolar ventilation over minute ventilation ratio, thus improving ventilation and oxygenation.<sup>3)</sup>

## Reduction of inspiratory resistance and work of breathing (WOB)

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 of resistance translates into a decrease in resistive work of breathing.<sup>4)</sup>

## High flow oxygen therapy with nebulized drug administration

In the HAMILTON-G5/S1, the high flow oxygen therapy option can be used together with an integrated Aerogen® nebulizer (optional). This allows the administration of nebulized drugs during high flow oxygen therapy.



Improved ventilation and oxygenation through pharyngeal dead space washout.



Use high flow oxygen therapy with Aerogen nebulizer (neonatal set-up).

# Ease of use

## Increased efficiency

The HAMILTON-G5/S1 allows you to easily switch between invasive or noninvasive ventilation and high flow oxygen therapy without needing to change the device or even the breathing circuit. You just need to change the ventilator mode and the patient interface.

## Integrated humidifier control (optional)

Together with the HAMILTON-H900 humidifier, the HAMILTON-G5/S1 delivers high-end active humidification. The HAMILTON-H900 can be controlled from the ventilator display to make the caregiver's life easier. Full integration of humidifier monitoring data with patient data management systems is also provided.

## SpO<sub>2</sub> monitoring\*

The continuous display of the plethysmogram and SpO<sub>2</sub> values, including a trend for SpO<sub>2</sub> for up to 96 hours, allows you to monitor the oxygen administration and to minimize the risks of hypoxia.

\* Optional with HAMILTON-G5



The display of the plethysmogram and SpO<sub>2</sub> trend functions allow you to monitor the high flow oxygen therapy and minimize the risks of hypoxia.



Controlling the HAMILTON-H900 from the ventilator display.

# High flow consumables



## Nasal cannula for high flow oxygen therapy

- ✓ Extra soft material and comfortable fit
- ✓ Highly flexible tube
- ✓ Flexible, 360° adjustable head band
- ✓ Adjustable collar band

For use with single or dual limb breathing sets.



## NHF nasal prong for high flow oxygen therapy

- ✓ The tube can be attached on the left or the right side of the cannula for more flexibility
- ✓ Four sizes to fit every patient

For use with single or dual limb breathing sets.

For further information, please contact your local Hamilton Medical sales representative.

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