The HAMILTON-C1/T1/MR1 ventilators now offer the option of an integrated high flow oxygen therapy mode for all patient populations.* 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.

In combination with the HAMILTON-H900 humidifier, the HAMILTON-C1/T1/MR1 ventilators provide heated and humidified gas mixtures with flow rates from 2 – 80 l/min for adult/pediatric patients and 2 – 12 l/min for neonates.*

Compared with conventional oxygen therapy or noninvasive ventilation, the use of high flow oxygen therapy has been shown to reduce the need for intubation\(^1\), and lower the risk of reintubation within 72 hours.\(^2\)

* Optional, not available in all markets
Pharyngeal dead-space washout

The main effect of delivering high flow oxygen directly into the nasopharynx is to wash out CO2 and reduce CO2 rebreathing. This allows the dead space to decrease and increases the alveolar ventilation over minute ventilation ratio, thus improving ventilation and oxygenation.\(^3\)

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 in resistance translates into a decrease in resistive work of breathing.\(^4\)

Improved mucociliary clearance

Active humidification during high flow oxygen therapy improves mucociliary function, facilitates secretion clearance, and decrease atelectasis formation, all of which improve the ventilation-perfusion ratio and oxygenation.\(^4\)
Ease of use

Increased efficiency

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.

SpO2 monitoring for HAMILTON-C1/T1

The optional display of the plethysmogram and SpO2 values, including a trend for SpO2 for up to 72 hours, allows you to monitor the oxygen administration and minimize the risk of hypoxia and hyperoxia.

Switch easily between invasive or noninvasive ventilation and high flow oxygen therapy in just a few steps.

The display of the plethysmogram and SpO2 trend functions allows you to monitor the high flow oxygen therapy and minimize the risk of hypoxia.
High flow consumables

Nasal cannula for high flow oxygen therapy

✓ Extra-soft material and comfortable fit
✓ Highly flexible tube
✓ Flexible, 360° adjustable headband
✓ 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.

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