Smother air flow for personalized ventilation

Add Heliox therapy to your Servo ventilator toolbox
More options to personalize the flow.

ICU professionals using Servo ventilators often tell us they value additions of new therapy options that are safe, easy to use and support advanced personalized ventilation. One example is obstructive lung diseases, such as exacerbated asthma, bronchiolitis or COPD, where additional targeted support may be required.

Helping patients breathe easier
To help these patients breathe easier, you now have the option to get Heliox therapy on selected Servo ventilators. Heliox is a mixture of helium and oxygen that, due to its low density, facilitates laminar flow and minimizes airway pressure. This helps reduce the work of breathing (WoB) of patients with obstructed airways, such as those with asthma or chronic obstructive pulmonary disease (COPD).

Wide-ranging and safe use
Heliox therapy can be used on a wide range of patients – from newborns to adults and for all invasive and non-invasive ventilation (NIV) modes, as well as in High Flow therapy. In combination with the integrated Aerogen nebulizer, it is often used as an adjuvant treatment while waiting for the onset of conventional pharmacological treatments.

Examples of clinical benefits include:

- **Reduction of airway resistance** Heliox reduces air flow resistance within the bronchial tree in patients with obstructive lung disease.\(^1,2,3\)

- **Reduction in the work of breathing** The low density of Heliox improves expiratory flow and decreases resistive work of breathing by converting density dependent turbulent air flow within the airways to laminar flow.\(^3\)

- **Improved delivery of nebulized drugs** Heliox improves aerosol deposition, with up to 50% more drug delivered, primarily because helium’s density is lower than air or oxygen. The lower density means less gas turbulence and less aerosol-particle-impaction loss in the tubing and patient airways.\(^2,4,5,6\)
Adjunctive therapy for 70 years
Over the past 70 years, Heliox has been used as adjunctive therapy to overcome airflow-obstruction disorders, and been proven to be a safe therapy. Its low density makes it more fluid under conditions or turbulence, promoting a more laminar flow and helping patients to breathe more easily.

New personalized therapy option
The Heliox option can be integrated into your Servo ventilators to provide you with even more therapy options for more personalized ventilation. You can quickly and easily switch between air and Heliox during ventilation without going to standby, saving time and improving comfort for the patient.

How Heliox therapy promotes better laminar flow with less turbulence.

Asthma airway:
Turbulent flow breathing oxygen

Asthma airway:
Improved laminar flow breathing Heliox

Safe, reliable and easy to use
When switching gas from air and O₂ to Heliox and back, volume and CO₂ monitoring as well as flow delivery are adjusted automatically by the ventilator's Automatic Gas Identification. Heliox delivery is confirmed by the presence of the "HeO₂" symbol on the screen. O₂ concentration is easily adjusted between 21% – 100% and information texts facilitate Heliox administration in every mode.

Cost-efficient approach
Your ability to wean patients with more options will support a better clinical result. In addition, the low gas consumption of Servo ventilators makes Heliox therapy cost effective to use. The Heliox therapy, can be added to your Servo-u, Servo-u MR or Servo-n* ventilators.

Key benefits of Heliox with Servo
• Minimizes airway resistance due to laminar flow
• Cost-efficient due to low gas consumption
• Can be combined with all ventilation modes, from invasive to NIV, High Flow therapy and nebulization
• Quick and easy to switch from Heliox to air and back during ventilation
• Adjustable O₂ concentration, 21% – 100%

* Not available in the neonatal patient category
**Order information**

For details regarding Heliox software, adapter kits, onsite upgrades, and other relevant information for Servo ventilators, please contact your local sales representative.

**References**


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This document is intended to provide information to an international audience outside of the US.

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