

Hayek RTX



**HAYEK
MEDICAL**

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BCV BIPHASIC CUIRASS VENTILATION

What if you could ventilate

- **Without a facemask?**
- Without a tracheostomy?
- Without intubation?
- Without the risk of lung injury?

and at the same time

- **Increase cardiac output**
- Facilitate secretion clearance
- Provide an active expiratory phase
- Eliminate patient compliance problems

Why does BCV work?

As ventilation is Biphasic, it is possible to achieve both higher tidal volumes (negative inspiratory tidal volume and positive expiratory tidal volume), higher frequencies from 6 to 1200CPM, and also for the user to have proper and real control over I:E Ratio, without having to depend on passive recoil of the patient.

In addition, the patented technology used for the cuirass and its disposable seal in the Hayek RTX allows for a comfortable fit and seal of the air within the cuirass. These advantages allow for a much higher minute ventilation to be created and thus making complete ventilation possible in both normal and sick lungs.

Patient Groups (Pediatrics and Adults)

- Failed mask ventilation and tracheostomy avoidance
- Acute Respiratory Failure - COPD - Neuromuscular - SMA - ALS - Head and Spinal Injuries
- Problems from weaning from PPV - Cystic Fibrosis (CF), and those who require physiotherapy
- Asthma - ventilation post operation, post Fontan, Fallot
- Lung collapse - Pneumothorax - and many more

BCV is a real alternative to invasive ventilation and is available for the hospital and at home.

Hayek RTX

The Hayek RTX provides an efficient and effective method of non-invasive external ventilation and is a real alternative to traditional forms of ventilation. The Hayek RTX actively controls the inspiratory and expiratory phases of respiration (using BCV). Compact and lightweight, the Hayek RTX is ideally suited for use in both **acute** and **chronic, intubated** or **non-intubated patients**.

The Hayek RTX Ventilator in many cases offers a real non-invasive alternative to Positive Pressure Ventilation (PPV) as it can provide complete ventilation, unlike other non-invasive ventilators:

- BCV is the only non-invasive, mask-free therapy that offers complete ventilation.
- The only ventilator that offers a viable alternative to a tracheostomy.

- The only ventilator that increases cardiac output.
- Treatment can be administered in hospital or the home.
- Significant cost-savings: reduces dependency on highly specialized staff.
- The only ventilator that automatically expels secretions.
- The only ventilator that has no known side effects.









The Hayek RTX has been shown to reduce mortality rates, increase patient comfort, and avoid many harmful side effects associated with existing respiratory techniques.

You can use the Hayek RTX with virtually every patient that would otherwise be on a face mask, and in most cases, be used instead of a tracheostomy as well as an effective method of weaning from IPPV.

Hayek RTX:

- Continuous Negative (CNEP) option
- Control Mode option
- Trigger Mode option
- Synchronised Mode option
- Secretion Clearance Mode (Vibration and Cough) option

Technical Specifications:

 FREQUENCY 6 - 1200 cycles per minutes	 I:E RATIO 1:6 - 6:1
 MAX INSPIRATORY PRESSURE -50 cmH2O	 MAX EXPIRATORY PRESSURE +50 cmH2O
 DIMENSIONS 370 X 260 X 180 mm (W x D x H)	 POWER UNIT WEIGHT 8.7 KG
 POWER Input Power: 500VA (RTX01) 550VA (RTX02) Voltage: 100-120 VAC (RTX01) 230 VAC (RTX02)	 CUIRASS 5 Adult sizes 7 Pediatric sizes

