

# Hayek RTX

A new chapter in ventilation



**HAYEK**  
MEDICAL  
A UNITED HAYEK COMPANY

**EO**  
1988  
ERTUÇ ÖZCAN

*With over 200 publications to date, BCV is a well proven method of ventilation.*

## Biphasic Cuirass Ventilation

### **What if you could ventilate**

- without the risk of barotrauma
- without the risk of infection
- without a facemask
- without sedation

### **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 (Adult and Pediatrics)

- 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

**A viable alternative to invasive PPV in most cases.**

## 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.

## Hayek RTX Modes of Operation

- Continuous Negative (CNEP)
- Control Mode
- Trigger Mode
- Synchronised Mode
- Secretion Clearance Mode (Vibration and Cough)
- Monitoring Options available



*Biphasic Cuirass Ventilation. It's an entirely different way of thinking. . . It's Hayek thinking.*

## Hayek RTX

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:

- The only ventilator that offers a viable alternative to a tracheotomy.
- The only ventilator that increases the patient's cardiac output.
- Treatment can be administered either 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. The Hayek RTX can, in most cases be used, instead of a tracheotomy, as well as an effective method of weaning from IPPV.

## Technical Specifications:

 <p><b>FREQUENCY</b> 6 - 1200 cycles per minute</p>	 <p><b>I:E RATIO</b> 1:6 - 6:1</p>	 <p><b>MAX INSPIRATORY PRESSURE</b> -50 cmH2O</p>	 <p><b>MAX EXPIRATORY PRESSURE</b> +50 cmH2O</p>
 <p><b>POWER UNIT WEIGHT</b> 8.7 KG</p>	 <p><b>DIMENSIONS</b> 370 x 260 x 185mm (W x D x H)</p>	 <p><b>CUIRASSES</b> 5 Adult sizes, 7 Pediatric sizes</p>	 <p><b>POWER</b> Input Power: 500VA (RTX01) 550VA (RTX02)  Voltage: 100-120VAC (RTX01) 230VAC (RTX02)</p>