

» VENTRAIN® FOR SMALL LUMEN VENTILATION



» ventrain ◀

Ventrain is a single-use hand-held ventilation device based on a fundamentally new ventilation principle: Expiratory Ventilation Assistance (EVA®). Dedicated to help you manage difficult airway situations Ventrain is easy in use as inspiration and expiration are initiated by using just a thumb.

Ventrain supplies O₂ during inspiration and actively removes the expiratory gases. The latter significantly reduces the risk of barotrauma and circulatory collapse and results in proper CO₂ clearance from the lungs.

Applications:

- Cannot Intubate Cannot Oxygenate (CICO)
- Bridging for intubation or extubation
- Laryngeal procedures
- Emergency situation in pediatrics

Cricath® and Tritube®

Ventrain in combination with the transtracheal catheter Cricath® or endotracheal cuffed tube Tritube® re-establishes adequate oxygenation levels quickly as an I:E of 1:1 and a minute volume of respectively 7-7.5 L/Min can be obtained. Depending on the situation both can be used in difficult airway situations.



Ventrain with Cricath



Ventrain with Tritube

» ADVANTAGES

- Effective and safe ventilation of obstructed airway through a small lumen:
 - Effective Oxygenation
 - Effective CO₂ reduction
- Usable from pediatric to adult
- Saves lives in CICO situations
- Driven by gasflow not electricity
- Through Luer-lock also usable with other (difficult) airway catheters
- Connection for side-stream capnometry

» REDEFINING VENTILATION



Small Lumen

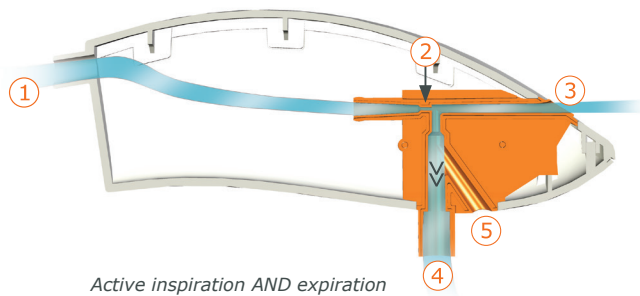


Higher Efficiency

› ventrain ◀

Ventilation principle

To use Ventrain you only need O₂ or a mix of O₂/Air from a high pressure gas source, with a pressure compensated flow meter. The technology enables active inspiration by gasflow AND active expiration by suction (Venturi principle).

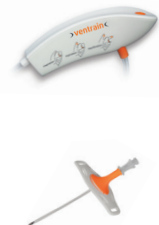


The mechanism of EVA is shown by the cross section of Ventrain above:

- ① Inlet hose connection to hospital O₂ gas flow
- ② Narrow diameter to increase gas velocity
- ③ Outlet gas flow
- ④ Connection to patient
- ⑤ Equilibration

Order information

All products are single use and sterile

Ventrain (Box of 5) Order number: 2618200 	Cricath (Box of 5) Order number: 2618400 
Ventrain Emergency Kit (Box of 5) Order number: 2618300 	Tritube (Box of 5) Order number: 7000 
	VEK bag Order number: 18078 

Not all specifications in this product brochure are applicable in the USA.

» USING VENTRAIN



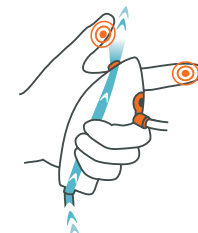
» INSPIRATION

Inspiration starts by closing number 5 with your index finger AND closing number 3 with your thumb.



» EXPIRATION

Expiration starts by closing number 5 with your index finger AND removing your thumb from number 3.



» EQUILIBRATION

Equilibration starts by removing your index finger from number 5 AND your thumb from number 3.

When opened, there is no significant positive or negative pressure at the catheter tip, resulting in equilibration/safety mode.