

Quick reference card

This Quick reference card does not replace the Instructions for Use (IfU) of Evone.



Introduction on Evone® (IfU chapter 2 and 5)

Evone is a mechanical small lumen ventilator intended to be used for less than 24 hours in patients >40 kg. Evone has two ventilation modes:

■ FCV® MODE

FCV is a ventilation method where flow is continuously controlled in both inspiratory and expiratory phase. This is implemented with a constant inspiratory flow and a controlled expiratory flow (by suction) between a set minimum airway pressure (EEP) and a maximum airway pressure (peak). Used for patient ventilation in elective situations, with a cuffed airway.

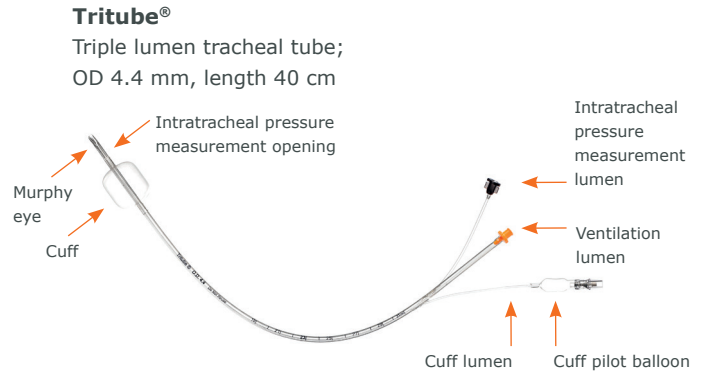
■ JET MODE

High frequency jet ventilation 60 to 150 Breaths Per Minute. Used for breathing support (not triggered by patient), with an open airway.

Evone and accessories (IfU section 5.3)

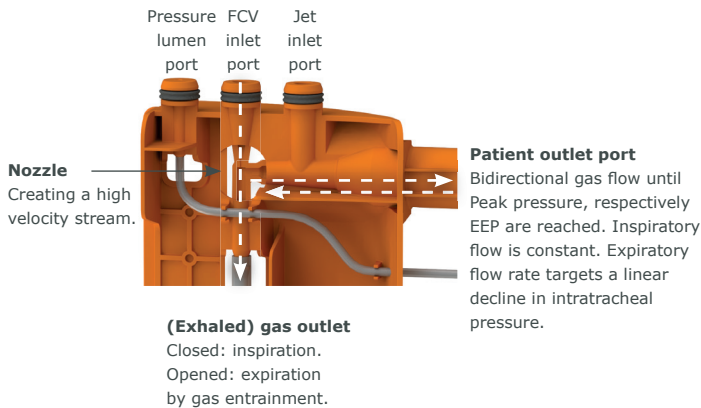
- 1 Evone Control Unit
- 2 Evone Breathing Tubing:
 - Evone Cartridge
 - Evone Airway Adapter
 - Humid-Vent filter Pedi straight
 - Evone Breathing Tube
- 3 Tritube (see on right hand side)
- 4 Artificial lung

Total respiratory dead space: ~40 mL



■ Technology FCV mode (IfU chapter 5)

The Evone Cartridge (orange) contains the FCV technology, which actively induces and controls expiration.



■ Ventilation in FCV mode (IfU section 5.1)

- frequency and volumes cannot be set directly
- requires a closed airway (inflated cuff)

| Adjustable parameters | Resulting parameters |
|-------------------------------|--------------------------------------|
| Inspiratory Flow | Minute Volume + Frequency |
| I:E Ratio | |
| Peak Pressure (Peak) | Inspiratory Tidal Volume + Frequency |
| End Expiratory Pressure (EEP) | |
| FIO ₂ | - |

■ Jet ventilation (IfU section 5.2)

- subglottic high frequency jet ventilation
- requires an open airway (deflated cuff)

Safety (IfU section 2.1)

Intratracheal pressure is monitored by two independent pressure measurements: continuously via the pressure measurement lumen and intermittently via the ventilation lumen.

- In case independently measured intratracheal pressures differ, the pressure measurement lumen will be purged. In case the difference remains, an alarm will be generated.
- In case intratracheal pressures exceed the set limits, an alarm will be generated.

Volume is monitored during inspiration and expiration, by monitoring flow and time.

- In case volumes exceed the limits, an alarm will be generated.

Evone automatically switches to Safety state when safety cannot be guaranteed.

- No mechanical gas flows from or to the patient.
- Restart of system is required running a self check and a start-up check.

Alternative ventilation (IfU section 3.1)

In case of device failure consider the following options:

Conventional ventilation

- Deflate the cuff of Tritube.
- Leave Tritube in place.
- Place (laryngeal) mask or large bore tube in parallel to Tritube.
- Apply alternative (balloon) ventilation.

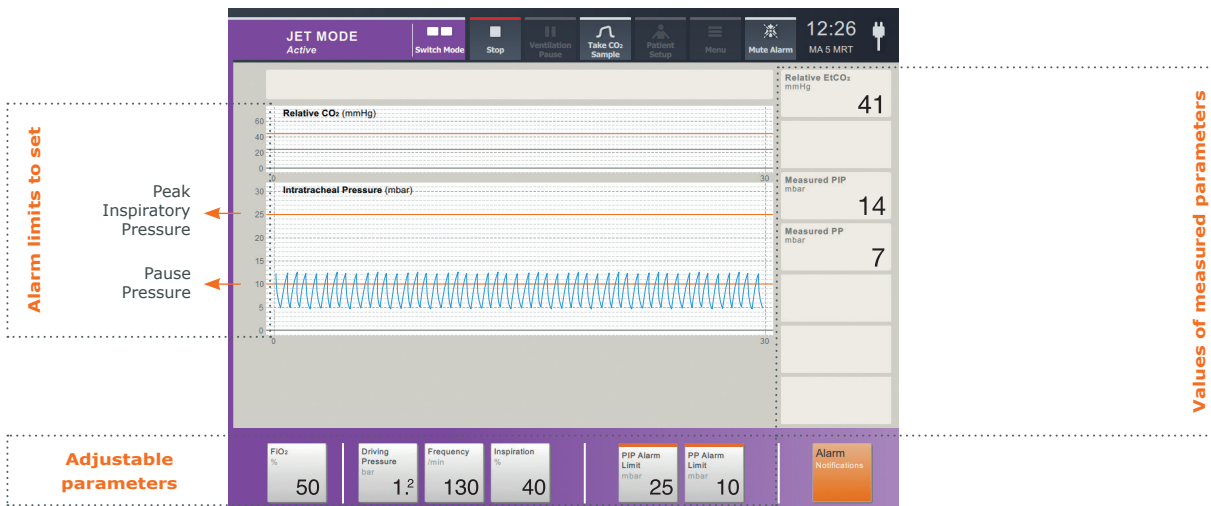
FCV ventilation by Ventrain®*

- Inflate the cuff of Tritube.
- Connect Ventrain to a high pressure O₂ source (3.5-5.0 bar).
- Set appropriate O₂ flow.
- Connect Ventrain to Tritube.
- Connect a pressure measurement device to Tritube.
- Ventilate the patient.

* See Instructions for Use of Ventrain

Quick steps (IFU chapter 7-10)

- 1 Assemble the Evone properly, using a clean Tritube and an artificial lung.
- 2 Switch the Evone Control unit on and wait for the Self-check to be performed.
- 3 When prompted, start Start-up check: select tests to be performed and start test by tapping **Perform Tests**.
- 4 Enter patient characteristics.
- 5 Disconnect Tritube from Evone.
- 6 Intubate the patient with a sterile Tritube.
- 7 Connect Evone to Tritube.
- 8 Choose ventilation mode **FCV MODE** or **JET MODE**.
- 9 Adjust the default ventilation settings and alarm limits if preferred.



- 10 Start ventilation.
- 11 Adjust parameters during ventilation if preferred/needed.
- 12 Switching between modes.

Caution! Always INFLATE cuff when starting **FCV MODE**, DEFLATE cuff when starting **JET MODE**.

- 13 Liberate patient from ventilation using **JET MODE**.

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