

Cuff Pressure Control Feature

What is the cuff Pressure Control feature?

The Ventoux Series ventilators offer a Cuff Pressure Control Module. This feature allows the clinician to connect the one-way valve on the endotracheal tube or tracheostomy tube to the ventilator. The clinician can select and deliver a precise and consistent pressure.

How the Ventoux Cuff pressure controller works

The cuff extender tube is connected to the ventilator cuff port from one end and to the endotracheal tube or tracheostomy tube from the second end. On the ventilator's screen, the user defines the inflation pressure. The pressure is constantly maintained, and automatically re-adjusted to meet the pre-defined value.

Why it is clinically important to set and monitor cuff pressure in a ventilated patient

Considerable research has been conducted on monitoring of cuff pressures, we know from this research that it is clinically important to set and maintain proper cuff pressure in the ventilated patient. The *Ventoux Cuff Pressure Module* allows the clinician to set a precise pressure and the ventilator maintains the set pressure throughout the ventilation period for improved patient outcomes. This feature:

- May reduce airway complications - By assuring accurate cuff pressure, the potential of airway trauma due to overdistension is significantly reduced. Recent clinical data shows that many patients have cuff pressures more than 40% higher than recommended.
- Decreases opportunity for ventilator associated pneumonia (VAPS) – Setting and maintaining accurate cuff pressure minimizes opportunity for leakage of secretions into the lungs. Over time cuff pressures will naturally decline, particularly with the use of high pressures or peep. Pressures are regularly impacted by the patients positioning and changes in peak inspiratory pressure. Using the unique pressure control module gives the peace of mind that the desired cuff pressure is set and maintained
- Monitoring cuff pressure- The Ventoux will display the set cuff pressure for on main screen. Changes are logged into the device's memory for retrieval and documentation

[Endotracheal Tube Cuff Pressures in Patients Intubated Prior to Helicopter EMS Transport - PMC \(nih.gov\)](#)

[Endotracheal tube cuff pressure: need for precise measurement - PubMed \(nih.gov\)](#)

[Optimization of Endotracheal Tube Cuff Pressure by Monitorin... : Anesthesia & Analgesia \(lww.com\)](#)

[Endotracheal Tube Cuff Pressure Monitoring in Peripheral Hospitals - PubMed \(nih.gov\)](#)