



# AVEA<sup>®</sup> ventilator

## Focused on outcomes

In the ever-changing world of healthcare, you face more challenging patients and more pressure to deliver outcomes. The AVEA<sup>®</sup> ventilator was designed with you in mind. Its comprehensive array of clinical tools and advanced monitoring allow you to guide your patient through the continuum of care simply and efficiently with a focus on improving outcomes.



## Advancing patient care

The AVEA ventilator automates many of the routine tasks you face every day, allowing you to focus on what is most important—your patient.

- Automated MIP/NIF, AutoPEEP and Slow Flow maneuvers
- Programmable oxygen increase
- Artificial airway compensation
- Leak compensation

## Connecting you to your patient

The exclusive BiCore™ technology integrated into the AVEA ventilator connects you to your patient like no other ventilator.

- **Work of breathing**—Guiding ventilator weaning with work of breathing has been shown to reduce ventilator days.<sup>1</sup>
- **Transpulmonary pressure**—Studies suggest that the use of transpulmonary pressure guidance in mechanical ventilation may allow you to optimize PEEP titration.<sup>2</sup> What's most important is that this can be done in real time, with no complex maneuvers and no disruption in ventilation.



# Empowering you to focus on your patient

The AVEA ventilator provides a comprehensive array of modes and advanced features that keep you focused on your patient, not the equipment:

- **Volumetric capnography**—Equipped with this option, the AVEA ventilator adds another key piece of information to provide improved monitoring of patient condition. When tied with exclusive BiCore technology, this powerful tool provides the most comprehensive monitoring array of any ventilator available.
- **Precision gas delivery system**—Supplies accurate tidal volumes from 2 mL to 2.5 L and was the first of its kind to automatically compensate for heliox gas delivery.
- **On-board compressor**—The optional on-board air compressor can meet your patient’s needs whether in the intensive care unit (ICU) or moving to computerized tomography (CT) scan. This powerful scroll compressor can only be found on the AVEA ventilator and is capable of operating the ventilator for up to two hours on battery.\*
- **Communication**—Three different serial protocols can be selected from the utility screen to simplify integration with hospital information systems or remote alarm monitoring.



## Volume-based capnography

- Advanced CO<sub>2</sub> measurements
- Traditional time-based capnography
- Alveolar, anatomic and physiologic dead spaces
- Vd/Vt ratio, alveolar minute ventilation



## Slow-flow Pflex

- One of four automated assessment maneuvers
- Low-inflection point calculation
- High-inflection point calculation
- Storage of four measurements for comparison (*superimposable*)



## Accurate tracheal and esophageal monitoring

- Measure the actual work imposed by the endotracheal tube
- Tracheal pressure monitoring
- Esophageal pressure monitoring
- Transpulmonary pressure monitoring



**References**

1 Gluck E, Barkoviak M, Balk R, et al. Medical effectiveness of esophageal balloon pressure measurement in weaning patients from mechanical ventilation. *Crit Care Med.* 1995;(23)3:504-509.

2 Talmor D, Ritz R, Sarge T, et al. Mechanical ventilation guided by esophageal pressure in acute lung injury. *N Engl J Med.* 2008;359(20):2,095-2,104.

\* When equipped with optional external battery.

 **WARNING:** U.S. Federal Law restricts this device to sale by or on the order of a physician.

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