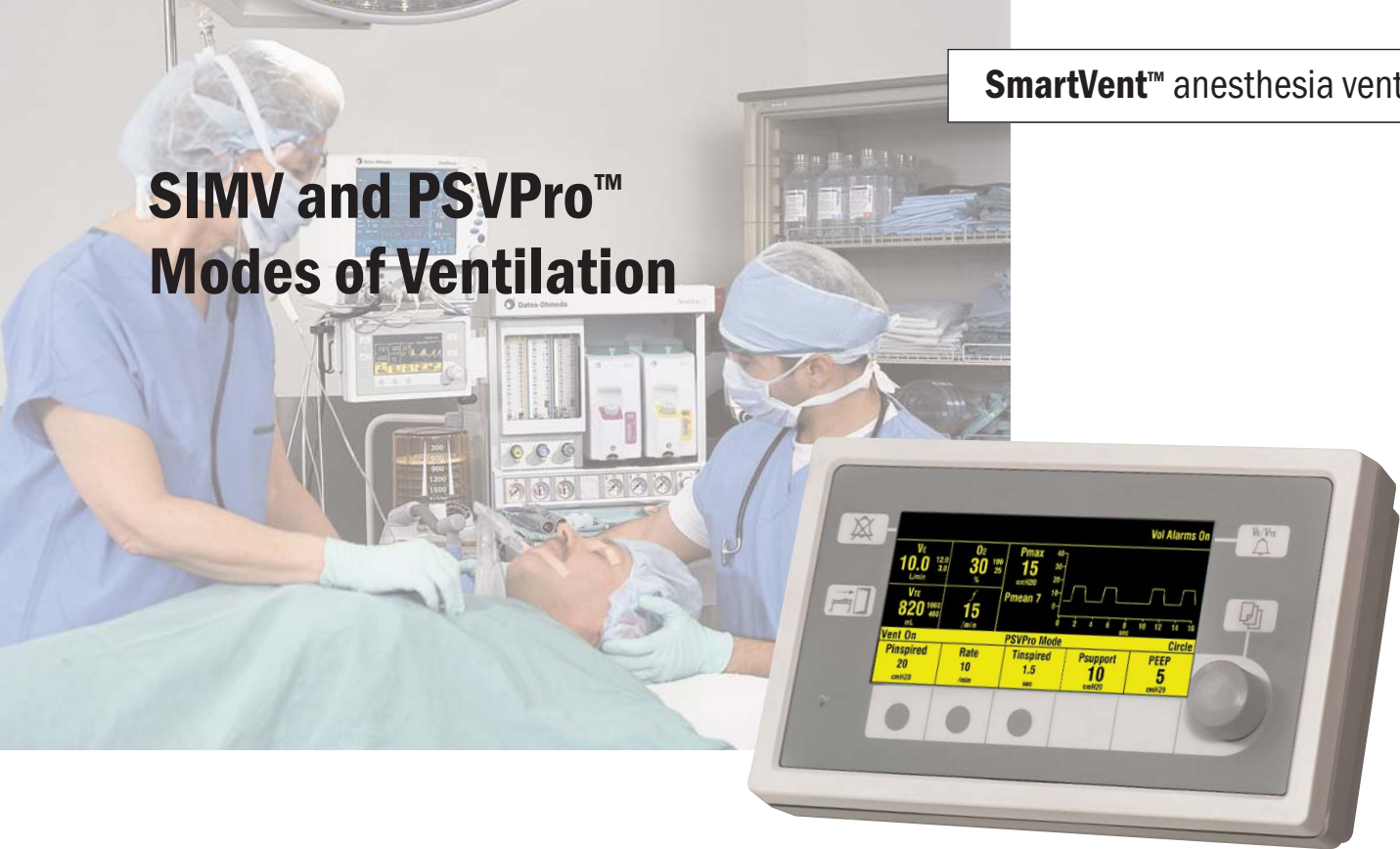


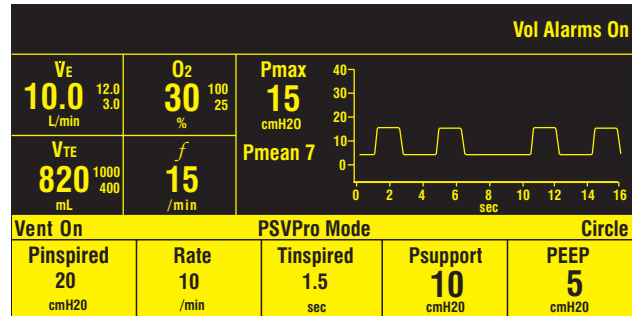
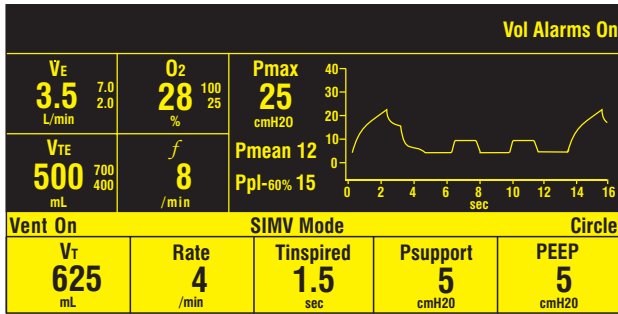
# SIMV and PSVPro™ Modes of Ventilation



## Optimizing your patient's ventilation

Ventilating patients during anesthesia is going through a metamorphosis. With the use of laryngeal mask airways (LMAs) on the rise and the increasing interest in allowing patients to breathe spontaneously, anesthesia systems that support the patient's natural breathing are in demand. The 7900 SmartVent's latest features, SIMV and PSVPro modes, expands the clinical capabilities of the Aestiva™/5 anesthesia system to help meet the needs of your patients. With full patient range capability, an adjustable flow trigger, CPAP, PEEP and an apnea backup mode, the SIMV and PSVPro modes help simplify the work of caring for your spontaneously breathing patients.

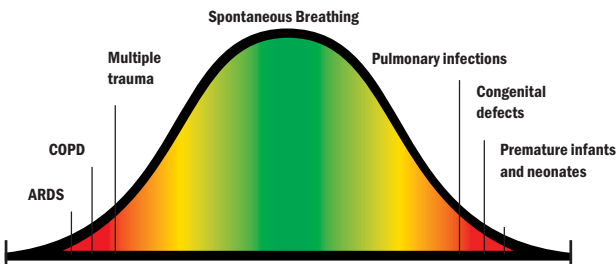
- Bundled together as an optional feature on the Aestiva/5 and the Aestiva/5 MRI anesthesia systems
- Provides assured respiratory rates and tidal volumes to maintain a minimum minute ventilation
- Flow triggering provides automatic synchronization of the breath
- Pressure Support provided in combination with the SIMV mode
- No need for additional hardware upgrades



## SIMV - Synchronized Intermittent Mandatory Ventilation

- SmartVent tidal volume compensation system works in mandatory breaths
- Adjustable trigger window allows fine-tuning to the patient's breathing pattern
- Respiratory rate adjustable from 2 – 60 bpm
- Provides assured rate and tidal volume for minimum minute ventilation
- Automatic synchronization with mandatory breaths
- Designed to improve synchronization of breaths which can decrease patient's tendency to fight the ventilator

## Broad range of patients



SmartVent addresses the complexity of patient needs found in your clinical environment.

## PSVPro – Pressure Supported Ventilation

- Helps to decrease the patient's work of breathing
- Able to be used with most LMAs
- Automatic apnea backup mode uses an SIMV-PC + PSV mode to maintain a minimum minute ventilation in the event the patient stops spontaneously breathing.
- CPAP capability
- Adjustable inspiration termination allows fine-tuning to the patient's breathing pattern
- Supports spontaneous breaths
- Uses a decelerating flow pattern
- Sustains or enhances the patient's tidal volume and helps to assist in maintaining normal etCO<sub>2</sub>



**Datex-Ohmeda Division** • Instrumentarium Corp.  
P.O. Box 900, FIN-00031 Datex-Ohmeda, Finland  
Tel. +358 10 39411 • Fax +358 9 146 3310

[www.datex-ohmeda.com](http://www.datex-ohmeda.com)



Aestiva/5



Datex-Ohmeda, Inc.  
P.O. Box 7550, Madison, WI 53707-7550, USA  
Tel. 800 345 2700 • Fax 608 221 4384

[www.us.datex-ohmeda.com](http://www.us.datex-ohmeda.com)