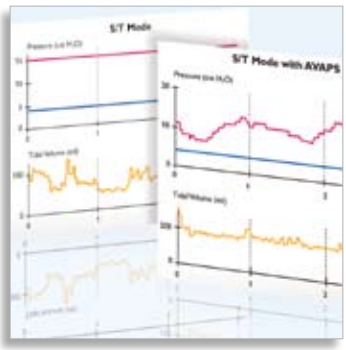


Experience always makes the difference

AVAPS (Average Volume Assured Pressure Support), a unique clinically proven feature for patients with chronic respiratory insufficiency

Respironics, the originator of bilevel technology and inventor of the well-known Auto-TRAK algorithm, offers chronic ventilation solutions based on years of experience, ensuring optimal synchronisation between the ventilator and patient, which is key to long term therapy success.

In 2004, Respironics launched AVAPS (Average Volume Assured Pressure Support) to combine the comfort and leak compensation efficacy of a pressure mode and the safety of a guaranteed average tidal volume.

AVAPS is based on the Auto-TRAK algorithm, a unique combination. Beware of imitations!

PHILIPS

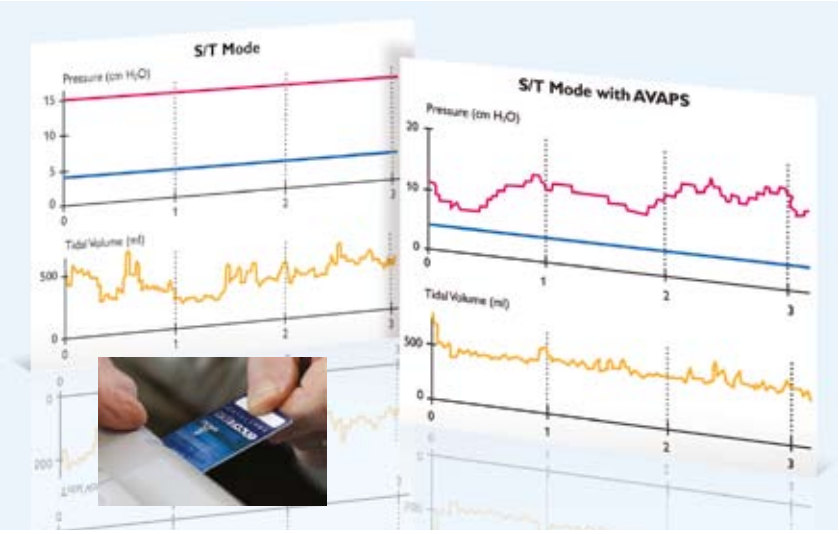
RESPIRONICS

Pressure vs. volume ventilation, which is best ?

Now, you don't have to choose to get the best of both.

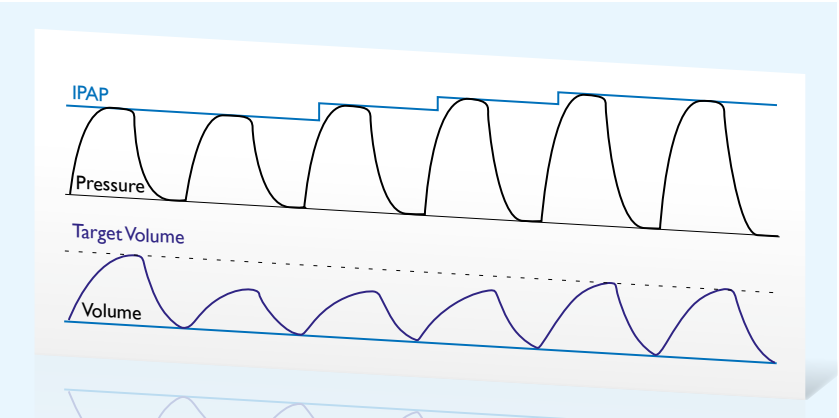
AVAPS, the best of two worlds

AVAPS alters delivered pressures to counterbalance the changing workloads of ventilation due to body position, sleep stages and overall respiratory mechanics. AVAPS is available on the BiPAP Synchrony in S, ST, PC and T pressure modes.



Real samples of Encore Pro reports from BiPAP Synchrony SmartCard

At each breath, Digital Auto-TRAK estimates leak, patient flow and tidal volume. Leveraging the unique Auto-TRAK algorithm, AVAPS compares patient estimated tidal volume with the preset target, and accordingly increases or decreases the inspiratory pressure. Smooth pressure changes ensure patient comfort and prevent any potential patient-ventilator disynchronization.



AVAPS combines the comfort and leak compensation of pressure mode and the safety and efficiency of guaranteed average tidal volume.

AVAPS, a unique clinically proven technology

- For patients with Obesity Hypoventilation Syndrome:
  "The addition of AVAPS to BPV-S/T provides beneficial physiologic improvements, resulting in a more efficient decrease of $PtcCO_2$ compared to BPV-S/T therapy alone"

Average Volume Assured Pressure Support in Obesity Hypoventilation: a Randomized Cross-Over Trial. Storre, et al. Chest 2006.

- For patients with chest deformities:
  "After switching to BiPAP-AVAPS therapy, the results included an increase in average oxygen saturation, a reduction of pCO_2 levels and an improved acceptance of therapy compared to previously used ventilation methods."

Average Volume Assured Pressure Support (AVAPS) for Pressure-Controlled Ventilation (BiPAP Therapy). Kerl, et al. Poster presented at the German National Home Mechanical Congress, 2004.

- For patients with hypercapnic COPD:
  "AVAPS mask ventilation has similar efficacy and produces better subjective effects on sleep as compared with PS in COPD patients with chronic hypercapnia."

A pilot study on efficacy of nocturnal AVAPS mask ventilation in patients with hypercapnic COPD. Crisafulli, et al. Poster presented at the ATS congress, 2008.

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