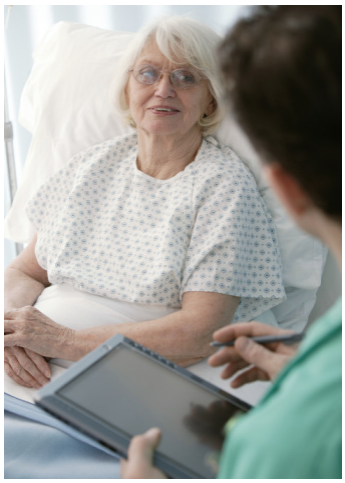
Improved patient care is now automatic

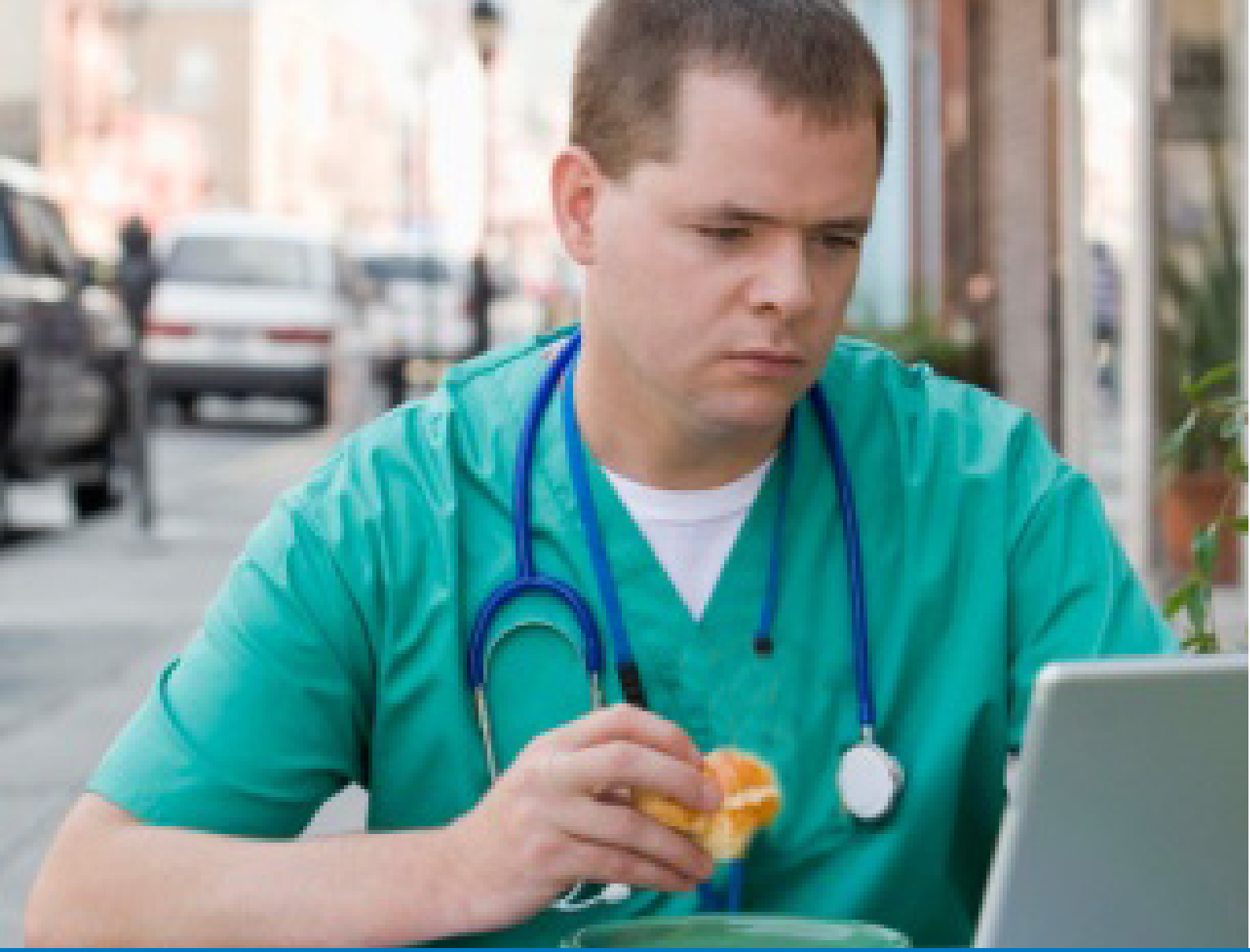
Philips Respironics BiPAP AVAPS automatically delivers optimal therapy even as patient needs change. And even if you are miles away.

PHILIPS
RESPIRONICS

Better patient care? It's automatic.



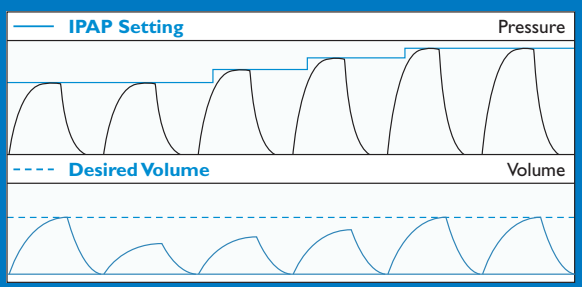
When a therapy device takes patient care to the next level, it's an important advancement. When it can also recognize changing patient needs and automatically make adjustments, it's revolutionary. Philips Respironics **BiPAP AVAPS** and **BiPAP S/T** are noninvasive ventilation devices developed to help you provide better, more efficient care for patients, including children as young as seven years of age and who weigh more than 40 pounds. And who better to bring it to you than the innovators in noninvasive (NIV) bi-level therapy for the home.



AVAPS – advanced technology that simplifies patient care

It's the only way of ensuring the delivery of targeted tidal volume for your NIV patients. Shorthand for "Average Volume Assured Pressure Support," AVAPS sets the standard in noninvasive ventilation.

The exclusive AVAPS algorithm automatically adjusts pressure support to meet changing patient needs while maintaining a target tidal volume.[1]



[1] The AVAPS feature is not available on the BiPAP S/T ventilator.

Exclusive benefits for your patients… and for you

AVAPS:

- Automatically adapts to disease progression and changing patient needs.
- Maintains optimal patient comfort without compromising patient care and efficacy.
- Improves ventilation efficacy.[2]
- Simplifies the titration process.

Advanced leak-sensing technology with Digital Auto-Trak

Our clinically-proven Digital Auto-Trak sensitivity algorithm:

- Enables you to achieve optimum patient/ventilator synchrony.
- Recognizes and compensates for leaks.
- Automatically adjusts its variable trigger and cycle thresholds.

Easy access to patient data

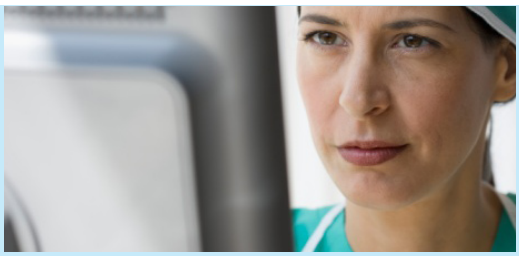
Monitor patient compliance. Evaluate ventilation efficiency. Identify trends.

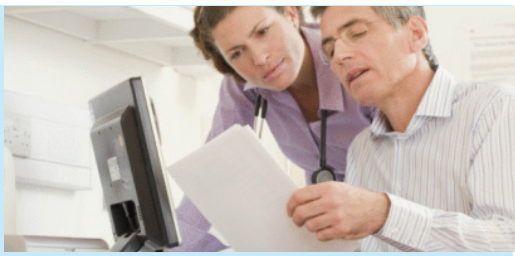
- Tap into EncorePro and EncoreAnywhere ventilation data management software.
- Access BiPAP AVAPS and BiPAP S/T ventilator data such as AHI, leak, clear airway apneas, and minute ventilation.
- Connect to your patients via wired and wireless modems plus an SD memory card.

[2] Storre, JH, et al. Average Volume-Assured Pressure Support in Obesity Hypoventilation: A Randomized Crossover Trial. *Chest* 2006;130;815-821.

Which patients benefit from AVAPS?

Any of your patients who develop chronic hypoventilation may find the BiPAP AVAPS a more comfortable and effective NIV therapy. For example, neuromuscular, COPD, and obesity hypoventilation patients are strong candidates for BiPAP AVAPS.





"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."[2]

One unbeatable package

Improved patient care, automatic adjustments to meet changing patient needs, plus simplified patient management. And it all comes together in a new lighter, quieter, and easy-to-use device that you and your patients are sure to appreciate. Integrated alarms help maintain patient safety. System One humidity control analyzes ambient temperature, relative humidity, and patient flow to deliver optimum humidity – and ultimate comfort – to the patient while also dramatically reducing rainout.

AVAPS suggested settings

Setup		
	Mode	S/T
	AVAPS	on
	Tidal Volume	**500**
	IPAP Max	12.0

1. Set the target tidal volume to 8 ml/kg of ideal weight.

Setup		
	AVAPS	S/T
	Tidal Volume	500
	IPAP Max	**25.0**
	IPAP Min	18.0

2. Set IPAP limits
   Max: 25 cm H_20 depending on patient pathology
   Min: EPAP + 4 cm H_20.

Setup		
	IPAP Min	18.0
	EPAP	4.0
	BPM	**15**
	Ti	1.0

3. Set respiratory rate 2-3 BPM below resting respiratory rate.

Setup		
	BPM	15
	Ti	**1.5**
	Rise Tim...	on
	Rise Time	1

4. Set inspiratory time.

Setup		
	Ti	2.0
	Rise Tim...	on
	Rise Time	**1**
	Ramp Time	off

5. Adjust rise time for patient comfort.

	Height	Ideal weight	Vte if 8ml/kg
	59"	52.0 kg	420 ml
	61"	55.5 kg	440 ml
	63"	59.0 kg	470 ml
	65"	62.5 kg	500 ml
	67"	66.5 kg	530 ml
	69"	70.5 kg	560 ml
	71"	74.5 kg	600 ml
	73"	78.5 kg	630 ml
	75"	83.0 kg	660 ml

Product specifications			
Physical			
Size	18 cm x 14 cm x 10 cm (7" L x 5.5" W x 4" H)		
Weight	Approximately 1.36 kg (3 lbs.)		
Therapy parameters			
Modes	CPAP, S, ST, PC, T		
Bi-Flex	Available on S mode		
Timed inspiration	0.5 to 3.0 seconds		
IPAP	4 to 25 cm H_2O		
EPAP	4 to 25 cm H_2O		
CPAP	4 to 20 cm H_2O		
Ramp	0 to 45 minutes		
Breath rate	0 to 30 BPM		
AVAPS (only available on BiPAP AVAPS device)			
Mode availability	AVAPS available on S, ST, PC, and T modes		
Target tidal volume	200 to 1500 ml		
IPAPmin	From EPAP to IPAPmax		
IPAPmax	From IPAPmin to 25 cm H_2O		
Patient alarms available	Patient disconnect, apnea, low minute ventilation, low tidal volume (AVAPS modes only)		
Environmental	**Operating**	**Storage**	
Temperature	5° C to 35° C (41° F to 95° F)	-20° C to 60° C (-4° F to 140° F)	
Relative humidity	15 to 95% (non-condensing)	15 to 95% (non-condensing)	
Atmospheric pressure	101 kPa to 77 kPa (0-2286 m / 0-7500 ft)	N/A	
Sound level	< 30 dBA at 10 cm H_20 pressure		
Electrical			
AC voltage source	100 to 240 VAC, 50/60 Hz, 2.1 A		
DC power	12 VDC, 5.0 A		
Displayed parameters	Patient pressure, leak, tidal volume, and respiratory rate		
Filters	Foam and optional ultra-fine		
Ordering information			
Item	**US**	**Canada**	
BiPAP AVAPS, C series	1060485	CA1060486	
BiPAP AVAPS, C series, core package	1061418	CA1061419	
BiPAP S/T, C series	1061420	CA1061421	
BiPAP S/T, C series, core package	1061422	CA1061423	
Ventilator accessories	**Part number**	**Ventilator accessories**	**Part number**
Foam filter kit	1063091	Water chamber	1063785
Ultra-fine filter kit	1063096	Power supply	1063786
System One heated humidifier	1056209	Carrying case	1063857
Device side panel	1063784	Power cord US/Canada	1005894

AVAPS and Bi-Flex features are not cleared for pediatric use.

Philips Healthcare is part of Royal Philips Electronics

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