Sleep-disordered breathing (SDB) and the company it keeps

SDB has direct, proven links to many chronic diseases, including diabetes, hypertension, heart failure and cardiovascular disease.

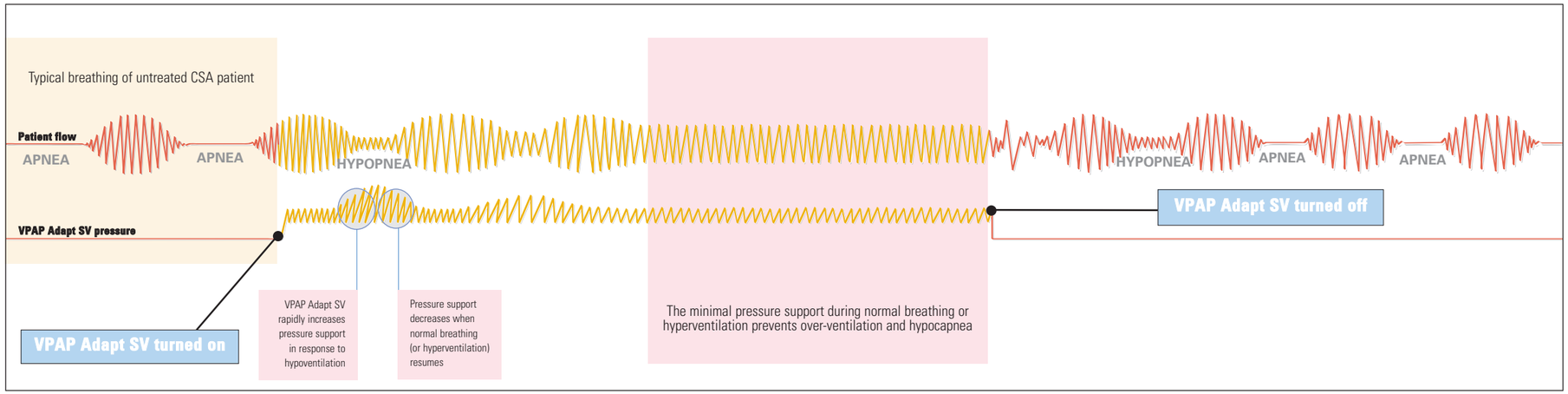
Obstructive sleep apnea (OSA) and central sleep apnea (CSA) are types of SDB. CSA occurs in many forms including:

- pure CSA
- mixed apnea (CSA with OSA)
- CSA with hyperpneas, or Cheyne-Stokes respiration (CSR).

The effects of untreated SDB

Untreated SDB is known to cause hypertension and contribute significantly to cardiovascular diseases.[1]

Apneas place great stress on the cardiovascular system. For example, CSR causes repetitive hypoxia, increased sympathetic activity, increased cardiac afterload, oscillations in heart rate and blood pressure, and sleep fragmentation.

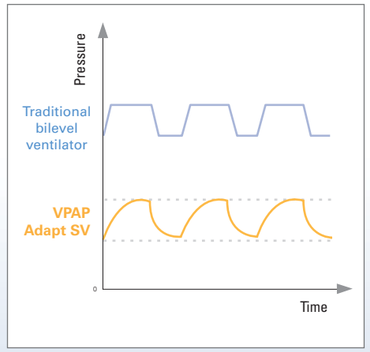


One-of-a-kind treatment, proven effective

VPAP Adapt SV™ is an adaptive servo-ventilator designed specifically to treat CSA in all its forms, including mixed events.

Peer-reviewed literature shows that adaptive servo-ventilation:

- normalizes breathing, completely suppressing CSA and/or CSR in heart failure patients[2,3]
- improves sleep architecture[2] (the amount of time the patient spends in slow-wave and REM sleep increases)
- enhances quality of life[3,4].



Unlike traditional bilevel therapy, VPAP Adapt SV delivers the smooth Easy-Breathe pressure waveform, which is similar to normal respiration.

Support when it's needed

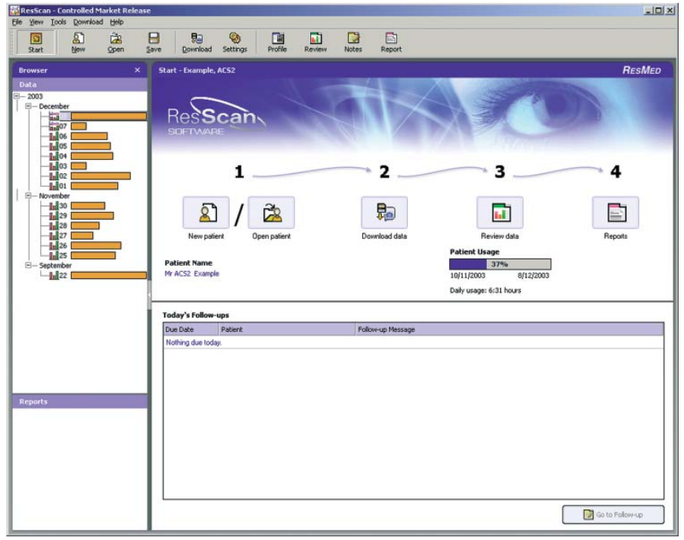
The Adapt SV algorithm:

- adapts to the patient's ventilatory needs on a breath-by-breath basis
- automatically calculates a target ventilation (90% of the patient's recent average ventilation)
- adjusts the pressure support to achieve it.

Maximizing patient comfort and compliance

VPAP Adapt SV:

- ensures pressure support is synchronized to the patient's own recent breathing rate and flow pattern
- provides a constant, low level of pressure support.



ResMed's state-of-the-art ResScan™ software is compatible with the VPAP Adapt SV. The Start Screen guides users through simple steps to view, assess and report therapy information.

Support when it's needed, with maximum comfort and convenience

ResMed

VPAP Adapt SV data

Live data

(Viewed via the LCD screen on the VPAP Adapt SV front panel)

- Device mode
- Expiratory/inspiratory pressure
- Instantaneous pressure graphic
- Leak
- Respiratory rate
- Tidal volume
- Minute ventilation
- Target ventilation

Stored data

(Viewed on your PC via ResScan™ software)

- Summary graphs and statistics
- Detailed data as traces

In addition to data stored by VPAP Adapt SV, in-depth data can be acquired using the ResLink module with oximetry and SmartMedia Card.

PRODUCT CODES

USA

VPAP Adapt SV	26013
HumidAire 2i	30902
ResLink	30924
Oximeter	1430050
DC-30 Power Converter	22005

Clinical references

1 Young et al. *Am J Respir Crit Care Med.* 2002; 165: 1217–39
2 Teschler H et al. *Am J Respir Crit Care Med.* 2001; 164: 614–19
3 Philippe C. Heart. 2005; Published online Jun 20
4 Töpfer V et al. *Pneumologie.* 2004; 58(i): 28–32

TECHNICAL SPECIFICATIONS

Dimensions (HxWxD)
5.6" x 9.8" x 11.5" (142 mm x 248 mm x 293 mm)

Weight
Flow generator: 8.14 lbs (3.7 kg)
(with HumidAire 2i™: 9.24 lbs (4.2 kg)

Performance
Operating pressure range: 4–25 cm H_2O

Modes
CPAP and ASV

Power Supply
AC input: 110–120 V and 220–240 V; 50–60 Hz; 60 VA
DC input: 30 V (DC-30 Power converter for portable operation via car DC power output; battery adaptor with battery clamp fittings also available)

Air Tubing
1 x 6'6" (2 m)

Device Function Alarms
(including power failure)

Oxygen
Compatible with low flow oxygen up to 15 liters/min.

Note: The manufacturer reserves the right to change these specifications without notice.

Optional ResLink™ module and oximetry captures more data and monitors oxygen saturation

Optional integrated humidifier provides comfortable and convenient home therapy

For best results, ResMed recommends the Mirage Quattro™ Full Face Mask for use with the VPAP Adapt SV.

ResMed Corp Poway, CA, USA +1 858 746 2400 OR 1 800 424 0737 (toll free), ResMed Ltd. 1 Elizabeth MacArthur Drive Bella Vista NSW 2153 Australia +61 (2) 8884 1000 or 1 800 658 189 (toll free). Offices in Austria, Brazil, Finland, France, Germany, Hong Kong, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, United Kingdom (see website for details). Specification may change without notice. ResLink and ResScan are trademarks of ResMed Ltd. HumidAire and VPAP are trademarks of ResMed Ltd. and are registered in U.S. Patent and Trademark Office.

ResMed

VPAP Adapt SV™

The right support at the right time – adapting breath-by-breath