



## S9 VPAP™ ST

Protect every breath

With ResMed's noninvasive ventilation (NIV) portfolio of products, you can help ensure that your patients are receiving the right support for each breath. ResMed NIV products contain powerful synchronization technologies that enable the patient to remain comfortable and well-ventilated, reducing the work of breathing. Vsync leak compensation and breath customization features help to ensure that ResMed NIV devices respond to the patient's every breath to help achieve better therapy outcomes.<sup>1,2</sup>

ResMed S9 VPAP™ devices deliver comfortable and effective NIV therapy with exceptional patient-ventilator synchrony. They also feature optional integrated oximetry and a daily report, which allows patients to view their therapy progress on a daily basis.

Together with ResMed's enhanced Easy-Breathe motor and superior Climate Control humidification system, the S9 VPAP ST delivers quiet comfort in the award-winning S9™ platform for better patient outcomes.

### Synchronization technology protects every breath<sup>1,2</sup>

- **Accommodate patients' unique needs with TiControl.**™ Ti Max enables you to set a maximum inspiratory time to reduce the risk of intrinsic PEEP and missed patient effort. Ti Min ensures adequate time for gas exchange without having to increase the pressure setting.
- **Better synchrony.** Setting a rapid rise time and high cycle sensitivity can help decrease the inspiratory time and extend the expiratory time, resulting in improved patient-ventilator synchrony for patients who are prone to intrinsic



reddot design award  
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PEEP. A slower rise time and lower cycle sensitivity, along with an adequate Ti Min, ensure the patients with weak inspiratory effort have adequate time for gas exchange.

- **Adjustable trigger and cycle.** Adjustable trigger sensitivity supports patients with a weak inspiratory effort and is crucial for those at risk for intrinsic PEEP or premature breath cycling.
- **Vsync leak compensation.** Vsync constantly monitors the flow so that if a mask leak occurs, the device can quickly compensate for the leak and maintain breathing synchrony.

### Comfortable and easy to use for patients

- **Maximum comfort with Climate Control.** ResMed's H5i™ heated humidifier offers advanced humidification with Climate Control, which intelligently adjusts to maintain optimal humidity devices for maximum comfort and is able to deliver more humidity than other devices with less rainout.



- **Quiet treatment for peaceful sleep.**

The ultra quiet enhanced Easy-Breathe motor of S9 VPAP devices reduces conducted and radiated noise, making it easier to integrate into the patient's (and bed partner's) lifestyle.

- **Patient ease of use and therapy acceptance.** The large color LCD screen and intuitive menus of S9 VPAP devices make it simple to use and review therapy efficacy. The stylish design looks less medical and can help overcome emotional barriers to using therapy.

### Data management

The S9 VPAP ST offers a range of data management options to help you monitor patient progress:

- Summary, efficacy and usage data for up to 365 sessions
- 30 sessions of detailed efficacy and usage data on additional parameters: leak, minute ventilation, tidal volume and oximetry
- High-resolution patient flow data for seven consecutive sessions

Respiratory Care Solutions  
Making quality of care easy



## Seamless from hospital to home

ResMed's Stellar™ 100 offers a clinically superior hospital ventilation system for adult and pediatric patients ( $\geq 28.7$  lb), with invasive<sup>3</sup> and noninvasive applications. For patients treated on ResMed's Stellar 100 in a hospital setting, the VPAP ST provides a seamless transition to successful treatment in the home on proven ResMed technologies.



The intuitive treatment screen displays the patient's inspiratory and expiratory pressures in an easy-to-read bar graph, in addition to other patient data such as minute volume, tidal volume, inspiratory time, I:E ratio, leak and respiratory rate at every breath.

### TECHNICAL SPECIFICATIONS

#### Operating pressure range

ST, T and S modes: IPAP 4 to 25 cm H<sub>2</sub>O, EPAP 3 to 25 cm H<sub>2</sub>O

CPAP mode: 4 to 20 cm H<sub>2</sub>O

#### Sound pressure level (CPAP mode)

24 dBA with uncertainty of 2 dBA as measured according to ISO 17510-1:2002

#### Dimensions (L x W x H)

6.0 x 5.5 x 3.4" (153 x 140 x 86 mm)

#### Weight

1.84 lb (835 g)

#### 90W power supply unit

Input range 100-240V, 50-60Hz, 70W (80VA) (typical power consumption), >100VA (maximum power consumption)

#### Operating

Temperature 41°F to 95°F (+5°C to +35°C)

Humidity 10-95%, non-condensing

Altitude sea level to 8,500' (2,591 m)

#### Storage and transport

Temperature -4°F to 140°F (-20°C to +60°C)

Humidity 10-95% non-condensing

#### Housing construction

Flame retardant engineering thermoplastic

#### Supplemental oxygen

Recommended maximum supplemental oxygen flow: 15 L/min

#### Standard air filter

Polyester fiber

#### Air outlet

The 22 mm conical air outlet complies with ISO 5356-1

#### Electromagnetic compatibility

Product complies with all applicable EMC requirements according to IEC60601-1-2, for residential, commercial and light industry environments.

#### Aircraft use

ResMed confirms that this device meets the Federal Aviation Administration (FAA) requirements (RTCA/DO-160F, section 21, category M) for all phases of air travel.

#### IEC 60601-1 classification

Class II (double insulation), Type BF

Offer your patients a system that protects every breath. Learn more about ResMed's S9 VPAP ST and other ventilation products at [ResMed.com/NIV](http://ResMed.com/NIV).

### PRODUCT CODES

|                                 |               |
|---------------------------------|---------------|
| S9 VPAP ST                      | <b>36008</b>  |
| S9 VPAP ST + H5i                | <b>36018</b>  |
| S9 VPAP ST + H5i + ClimateLine™ | <b>36028</b>  |
| ClimateLine                     | <b>36995</b>  |
| ClimateLine <sup>MAX</sup>      | <b>36997</b>  |
| S9 Wireless Module              | <b>36930</b>  |
| S9 Oximetry Complete Kit        | <b>369100</b> |



Combine S9 VPAPs with ResMed's premium masks for a system that delivers more comfort and compliance.

1 Gentile. Cycling of the mechanical ventilator breath. *Respir Care* 2011 2 Berry et al. Best clinical practice for the sleep center adjustment of noninvasive positive pressure ventilation in stable chronic alveolar hypoventilation syndromes. *J Clin Sleep Med* 2010 3 For use with uncuffed or deflated cuff tracheostomy tubes only.

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