



## S9™ Series

### FLOW GENERATORS

ResMed's S9 Series of flow generators set a new industry standard for comfortable sleep apnea treatment.

#### Features

- New platform design is stylish and user-friendly.
- Color LCD interface offers an intuitive menu layout and simple navigation. Push-and-turn dial reduces setup time and improves ease of use.
- Optional H5i™ heated humidifier with Climate Control seamlessly integrates with S9 device to improve comfort and compliance.
- New Enhanced Easy-Breathe motor reduces conducted noise and is exceptionally quiet, making it easy to integrate into the patient's (and bed partner's) lifestyle.
- Enhanced AutoSet™ algorithm, now with central sleep apnea (CSA) detection, automatically adjusts throughout the night to deliver optimal therapy.<sup>1</sup>
- SlimLine™ tube is 40% lighter and 20% slimmer than standard tubing, reducing tube drag and allowing for greater flexibility.
- Smart fit cuff design makes tubing easier to attach and assemble.

#### Maximum comfort with Climate Control

ResMed's H5i heated humidifier offers advanced humidification with Climate Control. Using the heated ClimateLine™ tube, Climate Control algorithms automatically regulate and maintain temperature and humidity levels as conditions change throughout the night (and from season to season). Simple controls allow patients to set their ideal temperature setting, and Climate Control takes care of the rest.



  
reddot design award  
winner 2010

As a result, patients have more control over their therapy and won't struggle with rainout and discomfort.

#### The value? Four and more

Research shows that patients feel most comfortable at humidity and temperature levels that standard humidifiers can't deliver. A recent study found that ResMed's S9 with Climate Control significantly reduced rainout complaints and relieved drying issues, leading to average daily patient usage increases of up to 30 minutes.<sup>2</sup>

By improving humidification comfort and reducing rainout, the S9 with Climate Control helps your patients accept therapy and get a good night's sleep.

Combined with its whisper-quiet motor, Easy-Breathe waveform and stylish user-friendly design, ResMed's S9 brings you the four innovations you need to help your patients sleep through the night comfortably and feel the benefits of healthy sleep.

Give your patients a system that delivers more. **Four and more.**

#### New motor technology—now quieter than ever

The S9 introduces new motor technology with the Enhanced Easy-Breathe motor. By creating an axial airflow that is distributed evenly throughout the motor, conducted noise transferred through the mask to the patient is reduced by 78%, compared to the S8™ Series II.<sup>3</sup> As a result, the device is no louder than normal breathing, and patients experience quiet and comfort on a whole new level.

<sup>1</sup> AutoSet algorithm available in S9 AutoSet™ and S9 Escape Auto™. CSA detection available in S9 AutoSet and S9 Elite™.

<sup>2</sup> Study details at [www.clinicaltrials.gov](http://www.clinicaltrials.gov) ID NCT01013207

<sup>3</sup> ResMed internal testing

**S9™** | Series  
More. Comfort.



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### TECHNICAL SPECIFICATIONS

#### S9 specifications

- Operating pressure range: 4 to 20 cm H<sub>2</sub>O
- Maximum single fault steady state pressure: 30 cm H<sub>2</sub>O
- Pressure measurement tolerance: ±0.5 cm H<sub>2</sub>O ± 4% of the measured reading
- Flow measurement tolerance: ±6 L/min or 10% of reading, whichever is greater
- Dimensions (L x W x H): 6.0" x 5.5" x 3.4" (153 mm x 140 mm x 86 mm)
- Weight: 1.8 lb (0.81 kg)
- Housing construction: Flame retardant engineering thermoplastic
- Supplemental oxygen: Recommended maximum supplemental oxygen flow: 4 L/min
- Hypoallergenic air filter: Non-woven acrylic and polypropylene fibers with polypropylene carrier
- Standard air filter: Polyester fiber
- Air outlet: 22 mm conical air outlet complies with ISO 5356-1

#### General specifications

- 90W power supply unit:
  - Input range: 100-240V, 50-60Hz, 110V
  - 400Hz nominal for aircraft use
  - 70W (80VA) (typical power consumption)
  - 110W (120VA) (maximum power consumption)
- 30W power supply unit:
  - Input range: 100-240V, 50-60Hz 110V, 400Hz nominal for aircraft use
  - 20W (30VA) (typical power consumption)
  - 36W (75VA) (maximum power consumption)
- Operating temperature: 41°F to 95°F (+5°C to +35°C)
- Operating humidity: 10-95% non-condensing
- Operating altitude: Sea level to 8,500' (2,591 m)
- Storage and transport temperature: -4°F to 140°F (-20°C to +60°C)
- Storage and transport humidity: 10-95% non-condensing

#### Declared Dual-Number Noise Emission Values in accordance with ISO 4871:

- Sound pressure level: 24 dBA as measured according to ISO 17510-1:2002
- Sound power level: 26 dBA with uncertainty of 2 dBA as measured according to ISO 17510-1:2002

#### H5i specifications

- Maximum heater plate temperature 150°F (65°C)
- Temperature cut-out 165°F (74°C)
- Maximum gas temperature <106°F (<41°C)
- Nominal dimensions (L x W x H)
  - Docking station and water tub: 6.0" x 5.7" x 3.4" (153 mm x 145 mm x 86 mm)
- Weight
  - Docking station and unfilled (Cleanable) water chamber: 1.7 lb (0.77 kg)
  - Docking station and unfilled (Disposable) water chamber: 1.5 lb (0.67 kg)
- Water capacity to maximum fill line 380 mL
- Docking station flame retardant engineering thermoplastic, aluminum
- Cleanable water tub injection molded plastic, stainless steel and silicone seal
- Water tub injection molded plastic, aluminum and thermoplastic elastomer

#### Air tubing specifications

- ClimateLine air tubing: Flexible plastic and electrical components, 6'2" (1.89 m), 15 mm inner diameter
- SlimLine air tubing: Flexible plastic, 6' (1.83 m), 15 mm inner diameter
- Standard air tubing: Flexible plastic, 6'6" (2 m), 19 mm inner diameter
- Maximum ClimateLine temperature: 86°F (30°C)
- Heated tubing temperature cut-out: 106°F (41°C)

#### Electromagnetic compatibility

Product complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC 60601-1-2, for residential, commercial and light industry environments. Information regarding the electromagnetic emissions and immunity of these ResMed devices can be found on [www.resmed.com](http://www.resmed.com), on the Products page under Service and Support. Click on the PDF file for your language.

Aircraft use: Consult the medical services department of your carrier if you intend to use your S9 device on an aircraft. These S9 devices comply with US FCC Part 15, Class B requirements if no external data cables are used.

**Note:** You should not use your S9 device while the aircraft is taking off or landing.

IEC 60601-1 classification:  
Class II (double insulation), Type BF

### PROFESSIONAL BENEFITS

- User-friendly design and menus reduce setup time and support patient acceptance.
- Climate Control helps deliver optimum therapy, increasing compliance and reducing callbacks.
- Compliance management solutions allow you to easily monitor patient compliance (eg, LCD data, SD card and modules for direct and remote download).
- Enhanced AutoSet algorithm detects CSA, allowing you to identify patients who can benefit from CSA therapy.

### PATIENT BENEFITS

- Travel-friendly for patients with an active lifestyle.
- Reduced risk of tube drag with lightweight SlimLine tubing.
- Improved comfort with Climate Control.
- Quiet therapy leaves patient and bed partner undisturbed, thanks to Easy-Breathe motor technology.
- Enhanced AutoSet algorithm improves sleep comfort.

### PRODUCT CODES

S9 AutoSet	<b>36005</b>
S9 AutoSet + H5i	<b>36015</b>
S9 Elite	<b>36003</b>
S9 Elite + H5i	<b>36013</b>
S9 Escape™	<b>36001</b>
S9 Escape + H5i	<b>36011</b>
S9 Escape Auto™	<b>36002</b>
S9 Escape Auto + H5i	<b>36012</b>
H5i	<b>36900</b>
H5i + cleanable chamber	<b>36901</b>