

## RESmart™ BPAP

### Bi-level Positive Airway Pressure (BiPAP)

#### With RESlex™ (Expiration Pressure Release)



RESmart™ BPAP Series offers the ultimate in sleep therapy comfort. It combines auto adjusting pressure delivery with the breath-by-breath pressure relief of RESlex™ for most natural sleep therapy. It also can provide non-invasive ventilation for patients with respiratory insufficiency in the hospital or home.



### Professional precision

- Innovative tracking technology ensures accurate and comfortable therapy.
- Unique sensitivity setting offers individual therapy algorithm, makes every user get the most comfort.
- RESlex™ performs better exhalation and compliance.
- Inspiration trigger for auto start-up
- Automatic stop after put off mask
- Alarm when accidental power-off
- In time alert function when mask/tubing off-line
- Automatic leakage and altitude compensation ensure the therapy accuracy anywhere.



### Ergonomic and powerful design

- Integrated and knock-down designed InH2™ heated humidifier
- DC 24V powered and infrared controlled humidifier make user safe and comfortable.
- Smart Heater automatic restarts after short term break.
- Patented anti-countercurrent water tank
- Unique Delay-off feature protects RESmart™ Auto from humidity hazard.
- Powerful embedded memory stores last night's full raw data, 365 nights' user Blog and more than 30 years' therapy record.
- User Blog direct output via portable thermal printer

**Product Comparison:**

<b>Model</b>	<b>25</b>	<b>25A</b>	<b>25T</b>	<b>30T</b>
Pressure (cmH <sub>2</sub> O)	4-25	4-25	4-25	4-30
Mode	CPAP, S	CPAP, S	CPAP, S, ST, T	CPAP, S, ST, T
Automatic Pressure	No	Yes	No	No
RESlex™	Yes	Yes	Yes	Yes
Data Storage	Compliance, Leak	Compliance, Leak, Pressure, Flow, Snore, AHI, SNI	Compliance, Leak	Compliance, Leak
Altitude Compensation	Automatic	Automatic	Automatic	Automatic
Power Supply	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Humidification	InH2™ Heated Humidifier	InH2™ Heated Humidifier	InH2™ Heated Humidifier	InH2™ Heated Humidifier

## **Technical Specifications:**

### **Device Size**

Dimensions: 220 × 194 × 112 mm  
313 × 194 × 112 mm (with InH2™ heated humidifier)  
Weight: < 2 kg

### **Environmental**

	Operating	Storage
Temperature	41 to 95°F (5 to 35°C)	-4 to 140°F (-20 to 60°C)
Relative Humidity	15 to 95% (non-condensing)	15 to 95% (non-condensing)
Atmospheric Pressure	77 to 101kPa (0 to 7500 ft)	N/A

### **Standards Compliance**

This device is designed to conform to the following standards:

- IEC 60601-1 General Requirements for Safety of Medical Electrical Equipment
- EN ISO 17510-1 Sleep Apnea Breathing Therapy Devices

### **Electrical**

AC Power Consumption: 100 – 240 VAC, 50/60 Hz, 1.0 A max.

Type of Protection Against Electric Shock: Class II Equipment

Degree of Protection Against Electric Shock: Type BF Applied Part

Degree of Protection against Ingress of Water: Device: Drip Proof, IPX1

Mode of Operation: Continuous

Electromagnetic Compatibility: The device meets the requirements of EN 60601-1-2, 2nd edition.

Fuses: There are no user-replaceable fuses.

### **Mode**

Product Model	Pressure	Function	Auto Pressure
RESmart™ BPAP 25	4-25 cmH <sub>2</sub> O	S, CPAP	No
RESmart™ BPAP 25A	4-25 cmH <sub>2</sub> O	S, CPAP	available
RESmart™ BPAP 25T	4-25 cmH <sub>2</sub> O	S, CPAP, T, S/T	No
RESmart™ BPAP 30T	4-30 cmH <sub>2</sub> O	S, CPAP, T, S/T	No

## Pressure

IPAP	4 to 30 cmH <sub>2</sub> O*    ±1 cmH <sub>2</sub> O**
EPAP	4 to 25 cmH <sub>2</sub> O*    ±1 cmH <sub>2</sub> O**
CPAP	4 to 20 cmH <sub>2</sub> O    ±1 cmH <sub>2</sub> O**
Respiratory Rate	3 to 40 BPM, Greater of ±1 BPM or ±10% of the setting (When measured over a 4 minutes period)
E/I Rate	1-4
Max. Inspiration Time	3.0 seconds
Ramp Duration	0 to 45 minutes ±10% of the setting
Rise Time	1 to 3*** ±25%****

\* Limited to 20 cmH<sub>2</sub>O when using the *Auto* feature in S mode.

\*\* Dynamic pressure accuracy is ±1 cmH<sub>2</sub>O measured at the patient end of the circuit with a Vio Nasal Mask and varying flow conditions.

Static pressure accuracy is ±0.5 cmH<sub>2</sub>O measured at the patient end of the circuit with a Vio Nasal Mask and no patient flow.

\*\*\* The range of values corresponds to tenths of seconds (e.g., a setting of 4 indicates a Rise Time of 0.4 seconds).

\*\*\*\* Measured at the patient end of circuit with a Vio Nasal Mask exhalation device and no patient flow.

## Disposal

Dispose of the device in accordance with local regulations.

NOTE: specifications subject to change without prior notice.