

System One comparison guides

Device selection guide

System One	Modes	Comfort features		Encore data capture and reporting			Reimbursement
		Flex comfort	System One Resistance Control	Patterns of use	Advanced event detection	Flow waveform	
CPAP devices							
REMstar Auto	CPAP	C-Flex	Standard	Standard	Standard	Standard	E0601
	CPAP-Check	C-Flex+					
	Auto-Trial	A-Flex					
	Auto CPAP						
REMstar Pro	CPAP	C-Flex	Standard	Standard	Standard	Standard	E0601
	CPAP-Check	C-Flex+					
	Auto-Trial	A-Flex					
REMstar Plus	CPAP	C-Flex	N/A	Standard	N/A	N/A	E0601
Bi-level devices							
BiPAP Auto	CPAP	C-Flex	Standard	Standard	Standard	Standard	RAD without back-up rate E0470
	Bi-level	Bi-Flex					
	Auto bi-level						
BiPAP Pro	CPAP	C-Flex	Standard	Standard	Standard	Standard	RAD without back-up rate E0470
	Bi-level	Bi-Flex					
Ventilatory devices							
BiPAP autoSV Advanced	Auto servo	Bi-Flex	Standard	Standard	Standard	Standard	RAD with back-up rate E0471
BiPAP AVAPS	CPAP, S, S/T, PC, T	AVAPS Bi-Flex	N/A	Standard	Standard	N/A	RAD with back-up rate E0471
BiPAP S/T	CPAP, S, S/T	Bi-Flex	N/A	Standard	Standard	N/A	RAD with back-up rate E0471

Advanced event detection:

Patient events are detected and logged for review by the care team for optimal patient care.

Philips Resironics devices with advanced event detection detect, respond to (some models), and log the following advanced events:

- Apnea Hypopnea Index (AHI)
- Snore
- Leak
- Obstructive airway apnea (OA)
- Clear airway apnea (CA)
- Hypopnea (H)
- Respiratory-related arousal (RERA)
- Flow limitation (FL)
- Vibratory snore (VS)
- Large leak (LL)
- Periodic breathing (PB)

Any Philips Resironics device with advanced event detection gives you the ability to review the patient flow waveform report.

Matching patients with the right therapy and products

Therapy type	CPAP	Auto-CPAP	Bi-level without back-up rate	Auto Bi-level	Servo-ventilation	Bi-level with back-up rate
Therapy system	REMstar Plus with C-Flex DS260 (S, HS, TS) ¹ CA261 (S, HS, TS) ¹ (Canada)	REMstar Auto with A-Flex DS560 (S, HS, TS) ¹ CA561 (S, HS, TS) ¹ (Canada)	BiPAP Pro with Bi-Flex DS660 (S, HS, TS) ¹ CA661 (S, HS, TS) ¹ (Canada)	BiPAP Auto with Bi-Flex DS760 (S, HS, TS) ¹ CA761 (S, HS, TS) ¹ (Canada)	BiPAP autoSV Advanced System One DS960 (S, HS, TS) ¹ CA961 (S, HS, TS) ¹ (Canada)	BiPAP AVAPS 1060485 device 1061418 core CA1060486 device (Canada) CA1061419 core (Canada) BiPAP S/T 1061420 device 1061422 core CA1061421 device (Canada) CA1061423 core (Canada)
Target	OSA patients Short-term Auto patients ² Home sleep testing patients ²	OSA patients Short-term Auto patients ² Home sleep testing patients ²	OSA patients OSA patients non-responsive or non-tolerant of CPAP	OSA patients OSA patients non-responsive or non-tolerant of CPAP	OSA and respiratory insufficiency patients with central apnea, periodic breathing such as Cheyne-Stokes respiration (CSR), or complex apnea	OSA and respiratory insufficiency patients with hypoventilation caused by restrictive thoracic disorders, obesity hypoventilation syndrome, central apnea, and COPD Pediatric and adult use AVAPS, C-Flex, and Bi-Flex features are not cleared for pediatric use
Algorithm	<ul style="list-style-type: none"> C-Flex and C-Flex+ provide pressure relief at beginning of exhalation Three patient-adjustable Flex settings Fixed CPAP pressure Trial period of breath-by-breath auto algorithm CPAP-Check algorithm² 	<ul style="list-style-type: none"> Flow-based proactive and reactive intelligence Delivers lowest mean average pressure levels Flow-based A-Flex pressure relief during inspiratory and expiratory phases Three patient-adjustable Flex settings 	<ul style="list-style-type: none"> Fixed IPAP and EPAP pressures Flow-based Bi-Flex pressure relief during inspiratory and expiratory phases Three patient-adjustable Flex settings 	<ul style="list-style-type: none"> Flow-based proactive and reactive intelligence Delivers lowest mean average pressure levels Flow-based Bi-Flex pressure relief during inspiratory and expiratory phases Three patient-adjustable Flex settings 	<ul style="list-style-type: none"> Dynamic, breath-by-breath adjustment of pressure support Peak flow targeted Intra-breath support Auto-titrating EPAP to alleviate the obstructive component of SDB Automatically calculated back-up rate in times of apnea 	<ul style="list-style-type: none"> Average volume assured pressure support (AVAPS) Maintains target Vt Slow adjustment over time (≤1 cm H₂O per min.) Modes: CPAP, S, S/T, T, PC Three patient-adjustable Bi-Flex settings
Settings	Fixed CPAP 4-20 cm Ramp time 0-45 min Flex settings 1,2,3 System One Humidity Control 0-5 Classic Humidity Control C1-C5 Heated Tube Humidification Tube Temperature 1-5 Humidity level 1,2,3	Min CPAP 4-20 cm Max CPAP 4-20 cm Ramp time 0-45 min Flex settings 1,2,3 System One Humidity Control 0-5 Classic Humidity Control C1-C5 Heated Tube Humidification Tube Temperature 1-5 Humidity level 1,2,3	EPAP 4-25 cm IPAP 4-25 cm Ramp time 0-45 min Flex settings 1,2,3 System One Humidity Control 0-5 Classic Humidity Control C1-C5 Heated Tube Humidification Tube Temperature 1-5 Humidity level 1,2,3	EPAP 4-25 cm IPAP 4-25 cm Ramp time 0-45 min Flex settings 1,2,3 System One Humidity Control 0-5 Classic Humidity Control C1-C5 Heated Tube Humidification Tube Temperature 1-5 Humidity level 1,2,3	EPAP _{min} 4-25 cm ⁴ EPAP _{max} 4-25 cm ⁴ PS _{min} 0-21 cm PS _{max} 0-21 cm Max pressure 4-25 cm Breath rate (Off/Auto, 4-30 BPM) Rise time 0-3 Ramp time 0-45 min Flex settings 1,2,3 System One Humidity Control 0-5 Classic Humidity Control C1-C5	EPAP 4-25 cm IPAP 4-25 cm I-Time 0.5-3.0 sec, off Breath rate 1-30 BPM, off Rise time 1-3 Flex settings 1,2,3 Target Vt ² 200-1500 ml IPAP _{min} ³ EPAP-IPAP _{max} IPAP _{max} ³ 4-25 cm System One Humidity Control 0-5 Classic Humidity Control C1-C5

¹ S = SD card capable

HS = System One humidifier and SD card capable

TS = System One Heated Tube humidifier and SD card capable

² REMstar Pro and Auto only

³ AVAPS

⁴ CA951 range is 4-20 cm.



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CAUTION: US federal law restricts these devices to sale by or on the order of a physician.

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