







Therapy and application guide

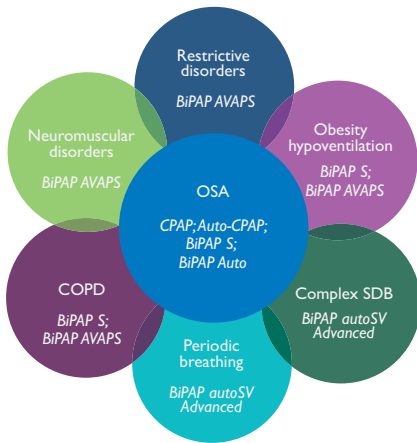
Matching the right therapy to the right patient with the right product just got easier

Therapy type	CPAP	Auto CPAP	Bi-level w/o back-up rate	Auto bi-level	Servo-ventilation	Bi-level w/ back-up rate
Therapy system	REMstar Plus* with C-Flex DS250S DS250HS REMstar Pro* with C-Flex+ DS450S DS450HS	REMstar Auto* with A-Flex DS550S DS550HS	BiPAP Pro* with Bi-Flex DS650S DS650HS	BiPAP Auto* with Bi-Flex DS750S DS750HS	BiPAP autoSV Advanced with Bi-Flex 1042906 device 1042907 core	BiPAP AVAPS 1060485 device 1061418 core BiPAP S/T 1061420 device 1061422 core
System						
Indication for therapy	Obstructive Sleep Apnea	Obstructive Sleep Apnea	Obstructive Sleep Apnea	Obstructive Sleep Apnea	Obstructive Sleep Apnea Central Apnea Respiratory insufficiency	Obstructive Sleep Apnea Respiratory insufficiency
Target	OSA patients	OSA patients	OSA patients OSA patients non-responsive or non-tolerant of CPAP	OSA patients OSA patients non-responsive or non-tolerant of CPAP	Patients with central apnea, periodic breathing, such as Cheynes-Stokes Respiration (CSR), or complex apnea	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 approved for pediatric use
Algorithm	<ul style="list-style-type: none"> Flow-based C-Flex and C-Flex+ pressure relief at beginning of exhalation Three patient-adjustable Flex settings Fixed CPAP pressure 	<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	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	EPAP 4-25 cm IPAP 4-25 cm Ramp time 0-45 min Flex settings 1, 2, 3 System One Humidity Control 0-5	EPAP _{min} 4-23 cm EPAP _{max} 4-25 cm MaxPS 3-8 cm Ramp time 0-45 min Flex settings 1, 2, 3 System One Humidity Control 0-5	EPAP _{min} 4-25 cm EPAP _{max} 4-25 cm PS _{min} 0-26 cm PS _{max} 0-26 cm Max pressure 4-30 cm Breath rate (Off, Auto, 4-30 BPM) Rise time 1-6 Ramp time 0-45 min Flex settings 1, 2, 3	EPAP 4-25 cm IPAP 4-25 cm I-Time 0.5-3.0 sec. Breath rate 0-30 BPM Rise time 1-3 Flex settings 1, 2, 3 Target Vt [†] 200-1500 ml IPAP _{min} [†] 4-25 cm IPAP _{max} [†] 4-25 cm

*S = SD card

*H = System One humidifier

Therapy type	Therapy system					
	CPAP	Auto-CPAP	Bi-level w/o back-up rate	Auto bi-level	Servo-ventilation	Bi-level w/ back-up rate
Data management	REMstar Plus with C-Flex	REMstar Auto with A-Flex	BiPAP Pro with Bi-Flex	BiPAP Auto with Bi-Flex	BiPAP autoSV Advanced with Bi-Flex	BiPAP AVAPS BiPAP S/T
	REMstar Pro with C-Flex+					
	Shows therapy usage (7 and 30 day average) and session >4 hours (7 and 30 day periods) Compliance VIC	Shows therapy usage (7 and 30 day average) and session >4 hours (7 and 30 day periods) Compliance VIC	Shows therapy usage (7 and 30 day average) and session >4 hours (7 and 30 day periods) Compliance VIC	Shows therapy usage (7 and 30 day average) and session >4 hours (7 and 30 day periods) Compliance VIC	Not applicable	Shows therapy usage (7 and 30 day average) and session >4 hours (7 and 30 day periods)
	SD card Wired modem Wireless modem	SD card Wired modem Wireless modem	SD card Wired modem Wireless modem	SD card Wired modem Wireless modem	Encore SmartCard	SD card Wired modem Wireless modem
	Reports blower hours and therapy hours (blower on and breathing detected)	Reports blower hours and therapy hours (blower on and breathing detected)	Reports blower hours and therapy hours (blower on and breathing detected)	Reports blower hours and therapy hours (blower on and breathing detected)	Reports blower hours and therapy hours (blower on and breathing detected)	Reports blower hours
	Detects and reports AHI, FL, RERA, snore, leak, CA, OA, HY, PB	Detects and reports AHI, FL, RERA, snore, leak, CA, OA, HY, PB	Detects and reports AHI, FL, RERA, snore, leak, CA, OA, HY, PB	Detects and reports AHI, FL, RERA, snore, leak, CA, OA, HY, PB	Detects and reports AHI, FL, snore, leak, CA, OA, HY, PB	Reports AHI, CA, HY, OA, leak, % triggered breaths, V _T , MV, RR, pressure
Efficacy data	Patient flow waveforms (Pro model)	Reports 90% pressure, and time at pressures	Patient flow waveforms	Reports 90% pressure, and time at pressures		
		Patient flow waveforms		Patient flow waveforms		
Reimbursement	E0601	E0601	RAD w/o backup rate: E0470	RAD w/o backup rate: E0470	RAD with backup rate: E0471	RAD with backup rate: E0471



Legend:

AHI: Apnea Hypopnea Index
 CA: Clear Airway Apnea
 FL: Flow Limitation
 HY: Hypopnea

OA: Obstructed Airway Apnea
 PB: Periodic Breathing
 RERA: Respiratory Effort Related Arousal
 VIC: Visual Inspection Check

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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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