## Therapy and application guide

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

<table>
<thead>
<tr>
<th>Therapy type</th>
<th>CPAP</th>
<th>Auto CPAP</th>
<th>Bi-level w/o back-up rate</th>
<th>Auto bi-level</th>
<th>Servo-ventilation</th>
<th>Bi-level w/ back-up rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>REMstar Plus®&lt;sup&gt; *&lt;/sup&gt; with C-Flex&lt;sup&gt; * &lt;/sup&gt;</td>
<td>REMstar Auto®&lt;sup&gt; * &lt;/sup&gt; with A-Flex&lt;sup&gt; * &lt;/sup&gt;</td>
<td>BIPAP Pro®&lt;sup&gt; * &lt;/sup&gt; with Bi-Flex&lt;sup&gt; * &lt;/sup&gt;</td>
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<td>BIPAP autoSV Advanced with Bi-Flex&lt;sup&gt; * &lt;/sup&gt;</td>
<td>BiPAP AVAPS&lt;sup&gt; * &lt;/sup&gt;</td>
<td>BiPAP S/T&lt;sup&gt; * &lt;/sup&gt;</td>
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<tr>
<td>D5250S D5250HS</td>
<td>D5350S D5350HS</td>
<td>D5650S D5650S</td>
<td>D5750S D5750S</td>
<td>1042906 device</td>
<td>1061418 core</td>
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<tr>
<td>REMstar Pro®&lt;sup&gt; * &lt;/sup&gt; with C-Flex+&lt;sup&gt; * &lt;/sup&gt;</td>
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<td>1042907 core</td>
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### Indication for therapy

- **OSA patients**
- **Obstructive Sleep Apnea**
- **Central Apnea**
- **Respiratory insufficiency**

### Target

- **Obstructive Sleep Apnea**
- **Central Apnea**
- **Obstructive Sleep Apnea**

### Algorithm

- **CPAP**
  - Flow-based C-Flex and C-Flex+ pressure relief at beginning of exhalation
  - Three patient-adjustable Flex settings
  - Fixed CPAP pressure
- **Auto CPAP**
  - 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
- **Bi-level w/o back-up rate**
  - Fixed IPAP and EPAP pressures
  - Flow-based Bi-Flex pressure relief during inspiratory and expiratory phases
  - Three patient-adjustable Flex settings
- **Auto bi-level**
  - 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
- **Servo-ventilation**
  - 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
- **Bi-level w/ back-up rate**
  - Average volume assured pressure support (AVAPS)
  - Maintains target Vt
  - Slow adjustment over time (≤ 1 cm H₂O per min.)
  - Modes: CPAP, S/T, T, PC
  - Three patient-adjustable Bi-flex settings

### Settings

<table>
<thead>
<tr>
<th></th>
<th>Fixed CPAP</th>
<th>Min CPAP</th>
<th>Max CPAP</th>
<th>EPAP</th>
<th>IPAP</th>
<th>Min PS</th>
<th>Max PS</th>
<th>Min Pmax</th>
<th>Max Pmax</th>
<th>Min SPmax</th>
<th>Max SPmax</th>
<th>Max pressure</th>
<th>Breathing rate</th>
<th>Rise time</th>
<th>Target Vt&lt;sup&gt; † &lt;/sup&gt;</th>
<th>IPAP&lt;sub&gt;min&lt;/sub&gt;</th>
<th>IPAP&lt;sub&gt;max&lt;/sub&gt;</th>
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<tbody>
<tr>
<td></td>
<td>4-20 cm</td>
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<td>1-6</td>
<td>0-45 min</td>
<td>1-2,3</td>
<td>1-2,3</td>
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<td>0-45 min</td>
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<td>Ramp time</td>
<td>0.45 min</td>
<td>Flex settings</td>
<td>1-2,3</td>
<td>4-25 cm</td>
<td></td>
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<tr>
<td></td>
<td>1,2,3</td>
<td>1,2,3</td>
<td>1,2,3</td>
<td>Flex settings</td>
<td>Flex settings</td>
<td>System One Humidity Control 0-5</td>
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<td>System One Humidity Control 0-5</td>
<td>200-1500 ml</td>
<td>1-2,3</td>
<td>4-25 cm</td>
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<sup> *S = SD card</sup>

<sup> *H = System One humidifier</sup>
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<td>BiPAP Pro with Bi-Flex</td>
<td>BiPAP Auto with Bi-Flex</td>
<td>BiPAP autoSV Advanced with Bi-Flex</td>
<td>BiPAP AVAPS BiPAP S/T</td>
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<tr>
<td>REMstar Pro with C-Flex+</td>
<td>Shows therapy usage (7 and 30 day average) and session &gt;4 hours (7 and 30 day periods) Compliance VIC</td>
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<td>Encore SmartCard SD card Wired modem Wireless modem</td>
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<td>Shows therapy usage (7 and 30 day average) and session &gt;4 hours (7 and 30 day periods) Compliance VIC</td>
<td>Reports blower hours and therapy hours (blower on and breathing detected)</td>
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<tr>
<td>Detects and reports AHI, FL, RERA, snore, leak, CA, OA, HY, PB</td>
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<td>Reports AHI, CA, HY, OA, leak, % triggered breaths, Vt, MV, RR, pressure</td>
<td></td>
</tr>
<tr>
<td>Patient flow waveforms (Pro model)</td>
<td>Reports 90% pressure, and time at pressures</td>
<td>Patient flow waveforms</td>
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<td>E0601</td>
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<td>RAD w/o backup rate: E0470</td>
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<td>RAD with backup rate: E0471</td>
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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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