AirCurve 10 CS PaceWave™:
ResMed’s unique minute-ventilation adaptive servo-ventilator
Meeting therapy goals

Sleep-related breathing disorders are characterised by obstructive and central events. Obstructive events are associated with destabilisation of blood gases, and arousals from sleep. Central events are associated with destabilisation of blood gases, and inadequate breathing control. AirCurve 10 CS PaceWave addresses both obstructive and central events to resolve upper airway collapse, and stabilise patient breathing.

Clinical benefits of ASV therapy for CSA

Reduced tiredness and daytime sleepiness: Improvements in sleep with PaciWave ASV therapy help reduce excessive daytime sleepiness in patients.6

Clinical benefits of ASV therapy for CompSA

Reduced residual central apnoeas: ASV is able to significantly reduce residual central apnoeas in patients with CompSA. When compared with CPAP therapy,1,8 ASV treatment has also been shown to significantly reduce excessive daytime sleepiness in these patients.6

What is CompSA?: CompSA syndrome occurs when central sleep apnoea episodes persist after obstructive or mixed sleep apnoea has been treated with continuous positive airway pressure (CPAP).7

Introducing ResMed’s AirCurve 10 CS PaceWave

Featuring the most clinically studied PaciWave ASV algorithm, the AirCurve 10 CS PaceWave device is the only one of its kind to target a patient’s own recent minute-ventilation (MV) to deliver therapy that is optimised to suit each individual.

Treating both obstructive and central events, the device rapidly stabilises breathing and blood gases to help improve sleep quality.1,2

Part of the ResMed Air Solutions platform, AirCurve 10 CS PaceWave also features built-in wireless connectivity, integrated humidification and user-friendly controls, making it easy to manage your patients’ condition.

Managing central sleep apnoea

As your partner in patient care, ResMed offers a therapy device to help you manage patients with breathing disorders that can be challenging to treat.

AirCurve 10 CS PaceWave is ResMed’s premium adaptive servo-ventilation (ASV) device designed to treat central sleep apnoea (CSA), mixed and complex sleep apnoea (CompSA), as well as periodic breathing, with or without obstructive sleep apnoea (OSA).
Learning continuously for personalised therapy

While other ASV devices assess patients’ peak flow to set ventilation targets, ResMed’s PaceWave ASV algorithm is the only one that targets the patient’s own recent minute-ventilation. By continuously monitoring and learning the patient’s breathing pattern and recent minute-ventilation, PaceWave ASV can quickly adjust the pressure support to ensure the appropriate MV target is maintained, and respiration is stabilised.

Predicting each patient’s unique needs for ease-of-care

Using high-resolution breath-phase mapping, PaceWave ASV can determine exactly where the patient is within each breath, and calculate their unique respiratory rate. It can then deliver pressure support synchronised to their own breathing pattern, where the delivered pressure reaches its therapy peak at end-inspiration and its lowest point by end-expiration. The result is a smooth, comfortable breathing experience.

Optimising comfort and synchrony for compliance

As well as aiming to provide accurate and effective therapy, AirCurve 10 CS PaceWave delivers breathing comfort with even more innovative technologies.

Easy-Breathe waveform

The Easy-Breathe waveform delivers a smoother, more comfortable breathing experience by replicating the natural wave shape of normal breathing.

Vsync

To manage unintentional mask leak, ResMed’s renowned Vsync technology automatically tracks and compensates for fast-changing and unstable leaks, allowing the device to synchronise its response to every breath.
Making the comfort of humidification accessible to all your patients, heated humidification is a standard feature built into the AirCurve 10 CS PaceWave device. And with the Climate Control Auto option, patients can receive therapy comfort by simply attaching the ClimateLineAir™ heated tube, and pressing Start on their device – no settings to change, and no complicated menus to navigate.

Set up for comfort and ease-of-use
AirCurve 10 CS PaceWave is easy to set up, and offers a range of features to help you treat even the most challenging patients.

<table>
<thead>
<tr>
<th>AirCurve 10 CS PaceWave</th>
<th>Therapy modes</th>
<th>Comfort features</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASV Auto</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Vyaas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate Control</td>
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<tr>
<td>Climate Control Auto</td>
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<td></td>
<td></td>
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<tr>
<td>SmartStart™</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Built-in wireless connectivity</td>
<td></td>
<td></td>
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<tr>
<td>AirView</td>
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<td></td>
<td></td>
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<tr>
<td>AirView’s remote assist</td>
<td></td>
<td></td>
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<tr>
<td>ResScan™</td>
<td></td>
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<tr>
<td>SD card</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>myAir™</td>
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Connected care
Thanks to the wireless connectivity built into the AirCurve 10 CS PaceWave device, it’s easy to stay connected to your patients’ therapy progress, and provide timely care.

Data from your patients’ therapy device can be sent directly to ResMed’s cloud-based patient management system, AirView™. Via AirView you can easily view valuable information such as compliance, leak, apnoea-hypopnoea index (AHI) and detailed data, so you can identify pain points in a timely and efficient manner.

AirView’s remote assist feature enables you to both change settings and troubleshoot remotely – so common therapy issues can be resolved in minutes.

Personalised support for your patients
ResMed’s myAir™ patient engagement program helps keep your patients on track with therapy.

myAir is a free online support program that allows your patients to track their nightly sleep data and therapy progress online. Therapy data automatically syncs to the cloud shortly after patients wake up, providing timely feedback on their progress.

myAir also provides full-time support that patients need, with tailored coaching, educational support and handy tips on common questions.

By keeping them educated and motivated, patients are more likely to stay engaged with therapy – an important part of helping them with long-term compliance.
Note: ASV therapy is contraindicated in patients with chronic, symptomatic heart failure (NYHA 2–4) with reduced left ventricular ejection fraction (LVEF ≤ 45%) and moderate to severe predominant central sleep apnoea.