ResMed

ResMed **Air** Solutions

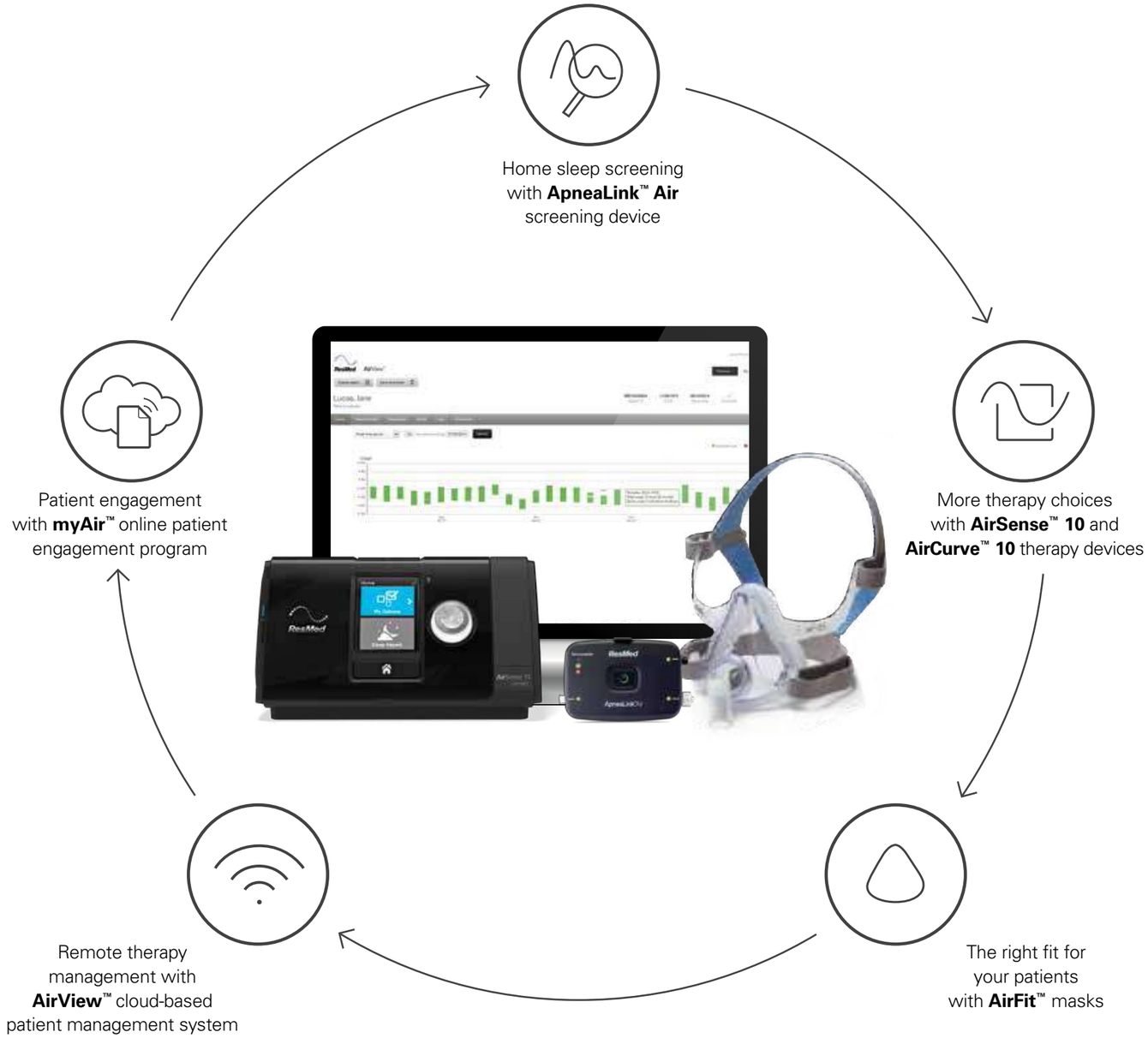


A new beginning

ResMed.com/AirSolutions

ResMed Air Solutions

ResMed Air Solutions provides a seamless therapy system designed to work across the entire patient pathway – from the initial sleep screening, through to every stage of therapy, and healthcare informatics.

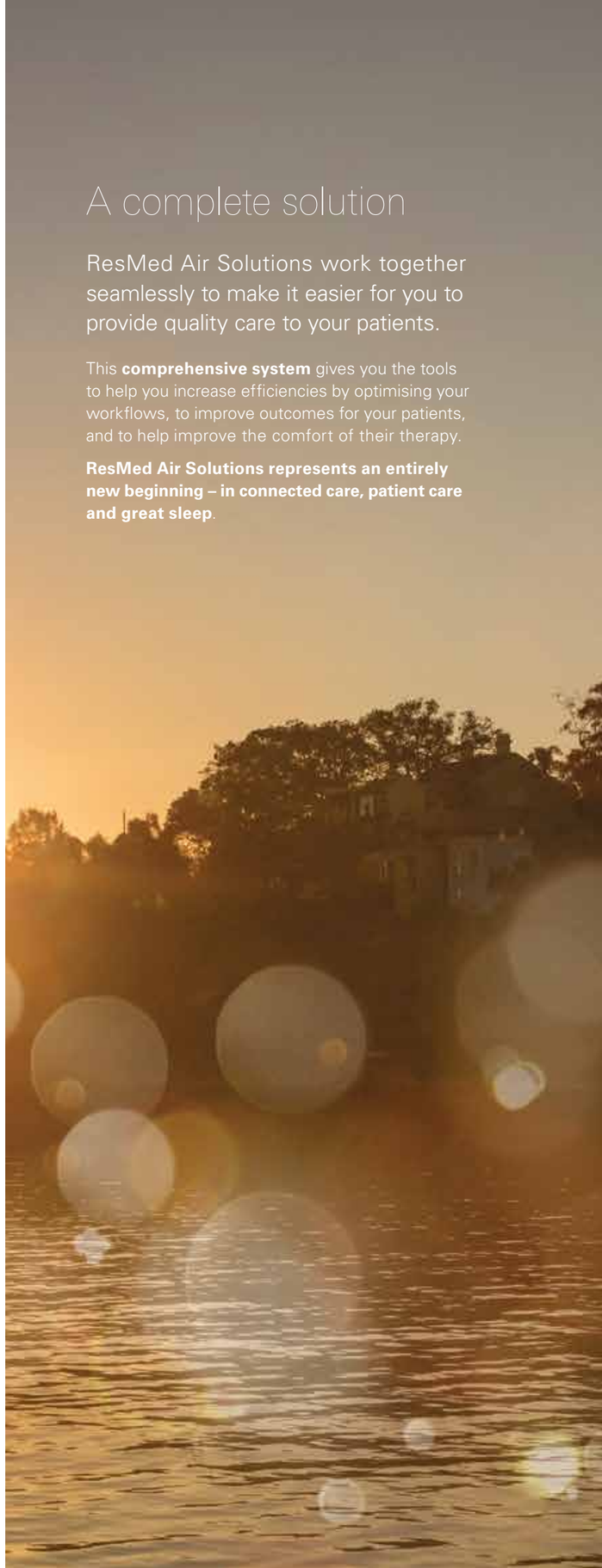


A complete solution

ResMed Air Solutions work together seamlessly to make it easier for you to provide quality care to your patients.

This **comprehensive system** gives you the tools to help you increase efficiencies by optimising your workflows, to improve outcomes for your patients, and to help improve the comfort of their therapy.

ResMed Air Solutions represents an entirely new beginning – in connected care, patient care and great sleep.





A new beginning in connected care

With ResMed Air Solutions, you'll benefit from a fully-integrated system of remote monitoring, powered by the wireless connectivity built into our devices, and a comprehensive cloud-based patient management solution. This provides the right connectivity between homecare providers, physicians and patients throughout the entire treatment journey.

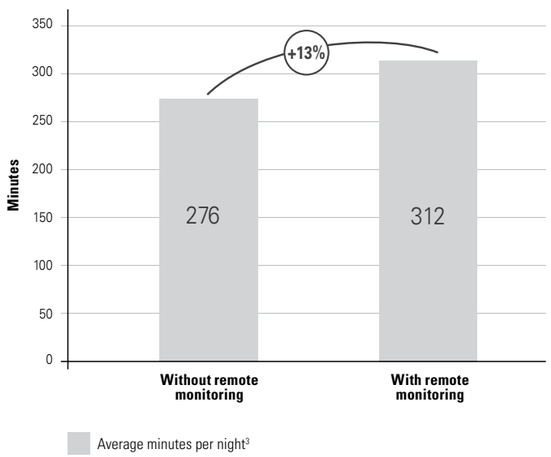
Remote monitoring for increased compliance

Studies confirm that remote monitoring and clinical support have a direct influence on compliance.

Recent findings have shown:

- 38% of patients improved their compliance with telemonitoring.[1]
- 92% of patients were satisfied or very satisfied with the telemonitoring.[1]
- Telemonitoring improves the relationship between patients, HCPs and physicians.[1]

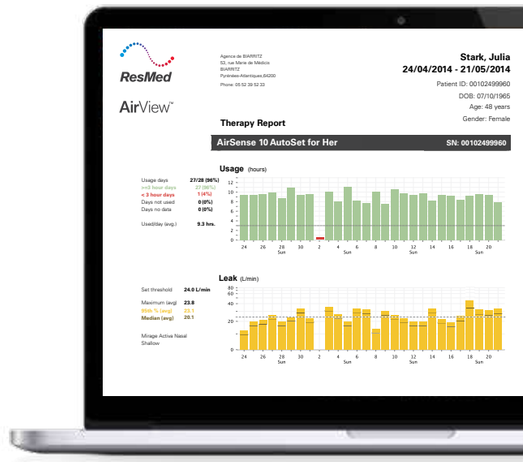
Having remote access to patients' therapy information also lets you focus your efforts on those patients that need additional support in getting used to therapy, and to intervene when necessary to address issues and problems early.[2-4] This may reduce patient drop-outs and accelerate the adoption of therapy.



ResMed's integrated system

Thanks to AirView and the wireless connectivity built into our AirSense 10 and AirCurve 10 therapy devices, ResMed Air Solutions offers a fully integrated system of connected care for your patients.

Via AirView, you can access patient data whenever you need to, and change device settings without having to leave your desk. AirView's remote assist feature can also save you valuable time by allowing you to troubleshoot and address therapy and device issues remotely. Being able to quickly and easily provide remote monitoring, ResMed Air Solutions aims to set you and your patients up for success.



Remote therapy management

All key stakeholders (HCPs, physicians, sleep labs) **can access patient data in one place.** Convenient, at-a-glance reports help you quickly identify patients in need of intervention so you can address issues proactively **for better compliance and quality of care**.

Remote troubleshooting

AirView's remote assist feature allows you to **troubleshoot remotely,** saving you from having to make patient visits or lengthy phone calls to resolve therapy or device issues.

Seamless integration in HCP workflows

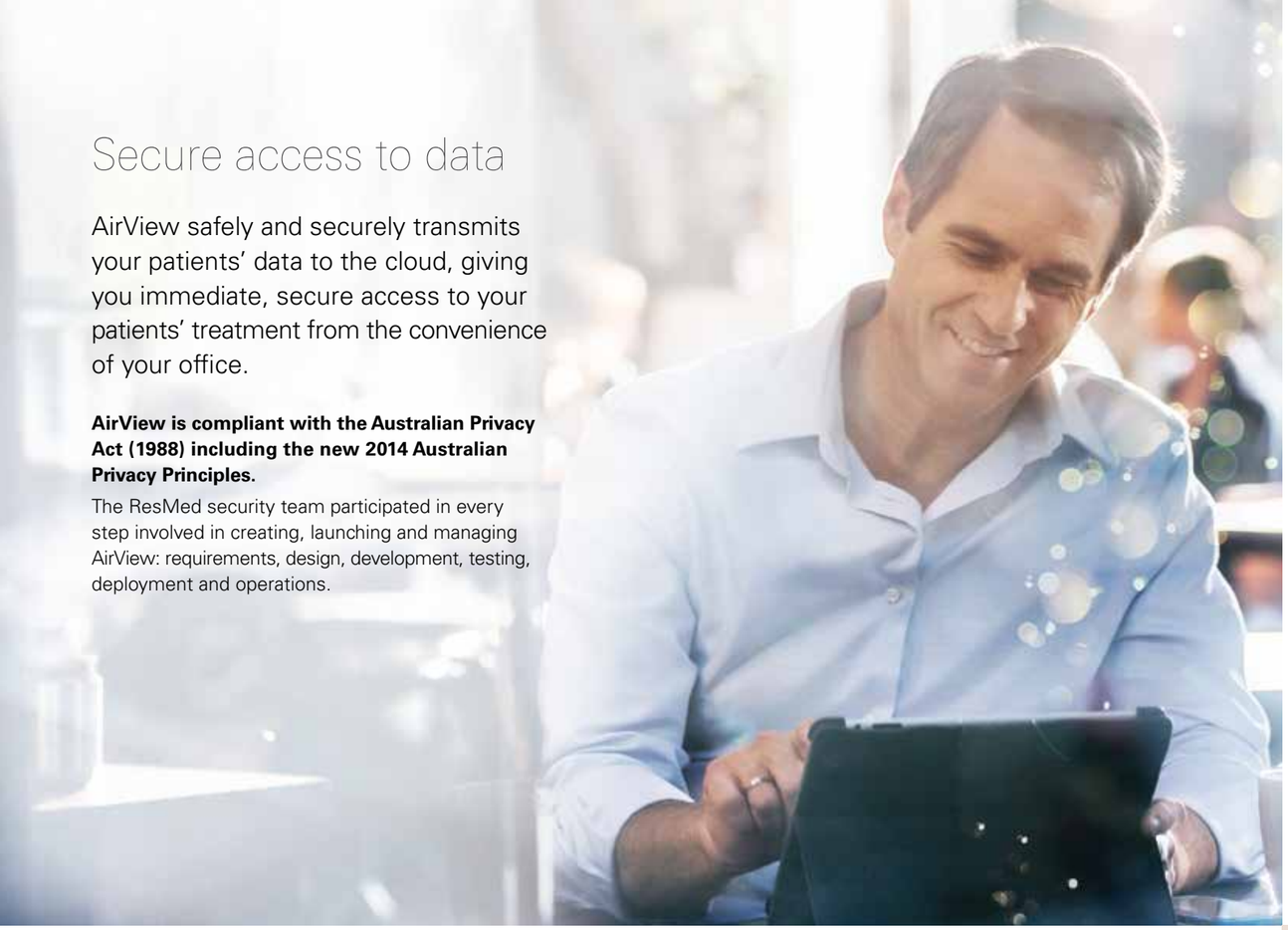
The **built-in wireless connectivity** in every AirSense 10 and AirCurve 10 therapy device, works seamlessly to help you stay more informed on the progress of patients, and **help manage their therapy more efficiently.**

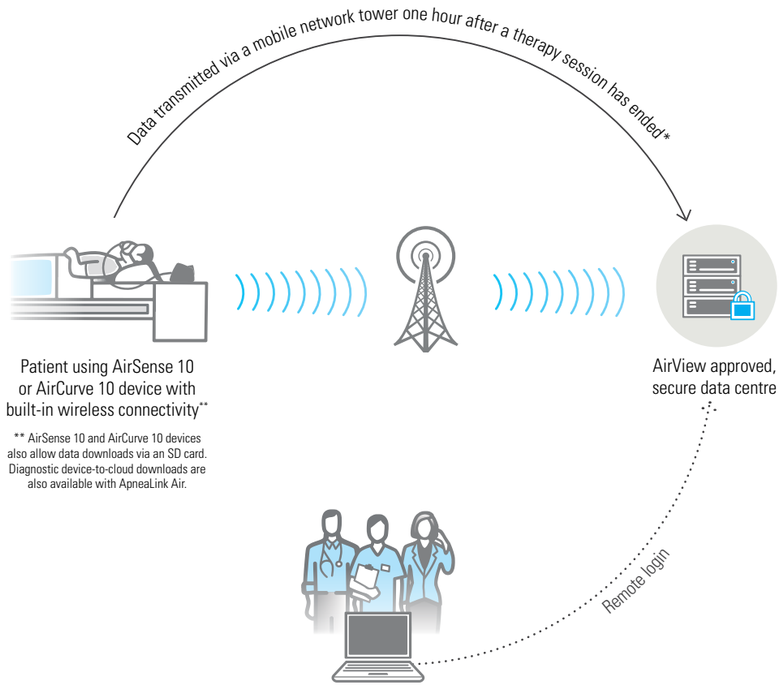
Secure access to data

AirView safely and securely transmits your patients' data to the cloud, giving you immediate, secure access to your patients' treatment from the convenience of your office.

AirView is compliant with the Australian Privacy Act (1988) including the new 2014 Australian Privacy Principles.

The ResMed security team participated in every step involved in creating, launching and managing AirView: requirements, design, development, testing, deployment and operations.





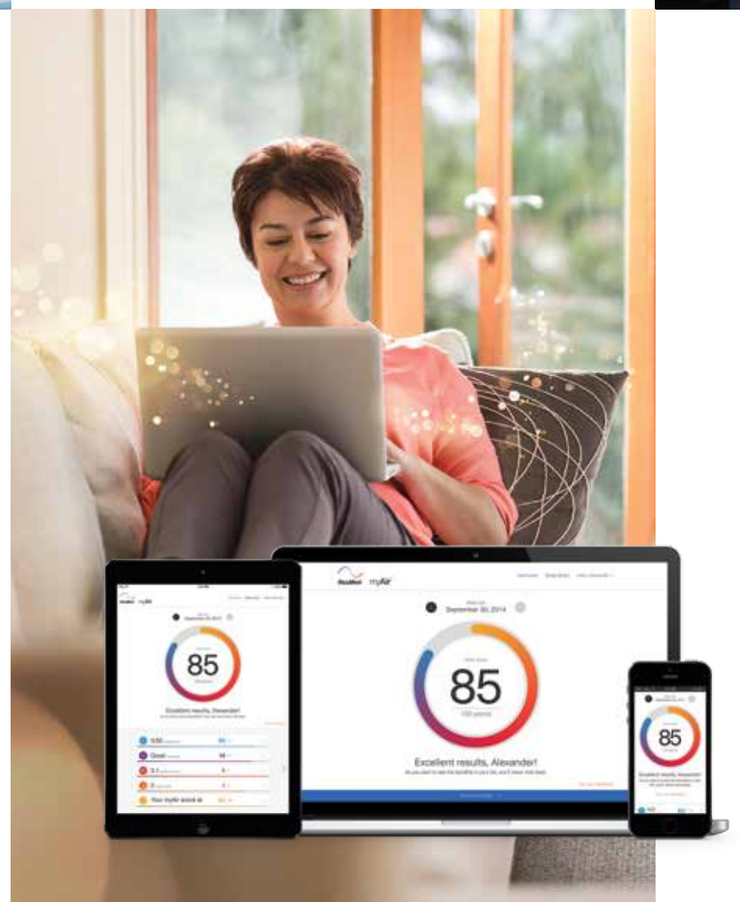
Remote monitoring during screening

AirView also features device-to-cloud downloads from ApneaLink Air, so you can manage patients from screening to long-term compliance, using one online platform.

The ApneaLink Air device records flow and oximetry data, and generates a computer scored report with the apnoea–hypopnoea index (AHI) scored from flow data, and a desaturation index scored from oximetry data. Results can be used, along with clinical assessment, to determine the presence and severity of OSA.







Personalised support for your patients

Empowering patients to stay engaged with therapy is an important part of helping them stay compliant long-term.

That's why we created myAir, an interactive web program fully managed by ResMed that provides interactive coaching, education and motivation, and allows patients to track their progress online.

They can also receive emails or text messages to provide helpful education and encouragement to support them along the way. As they mark their successes and celebrate their milestones with awards and badges, patients are more likely to stay motivated to keep going with therapy.

Patients can also access the Sleep Library, which contains a variety of educational information about their therapy, including specific information based on their needs.



A new beginning in patient care

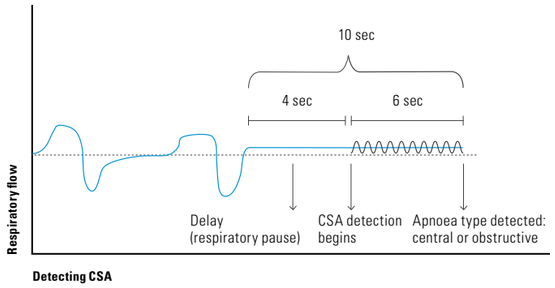
ResMed Air Solutions helps you provide more tailored therapy to your diverse patient base.

ResMed Air Solutions helps you provide more tailored therapy to more of your patients, no matter who they might be.

For your **challenging sleep apnoea patients**, ResMed Air Solutions devices feature central sleep apnoea (CSA) and Cheyne–Stokes respiration (CSR) detection. Giving you additional clinical insight into your patients' therapy progress, these detection algorithms help you provide timely intervention to those who need it.

For **patients who need adaptive servo-ventilation** (ASV) therapy, ResMed Air Solutions brings you the most clinically-studied PaceWave™ algorithm. The only one of its kind to target the patient's own recent minute ventilation, PaceWave offers truly personalised therapy to help rapidly stabilise patients' respiration and improve sleep quality.

And for your **female patients** they now have the benefit of a complete therapy solution designed especially for their needs, with the first dedicated algorithm tailored to respond to female-specific characteristics of sleep apnoea.

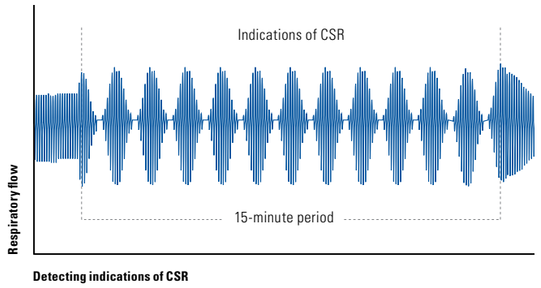


Detecting CSA

Detecting CSA

To determine if a patient's airway is open or closed during an apnoea, the CSA detection algorithm applies a forced oscillation technique (FOT) once an apnoea has been detected.

Central apnoeas are recorded in the patient's AHI, which you can monitor via AirView.



Detecting indications of CSR

Detecting CSR

Throughout the night, the intelligent CSR detection algorithm continually monitors each patient's breathing pattern, checking for indications of CSR.

If these indications occur for a minimum of 15 minutes, the patient may be exhibiting CSR, and this is captured in your reports in AirView.

You will be able to see how long the patient exhibited indications of CSR breathing patterns, and for what percentage of their total nightly sleep.



Managing CSA and CSR

ResMed's AirCurve 10 CS PaceWave device is specifically designed to treat CSA in all its forms (including mixed and complex sleep apnoea), and periodic breathing such as CSR.

The device also features technologies such as Vsync, which provides excellent patient–ventilator synchrony, even in the presence of significant leak.

Unique treatment for women

Recent studies show that obstructive sleep apnoea (OSA) is significantly different between women and men, and under-diagnosed in women.[5,6]

To address this, and support you and your patients, ResMed Air Solutions presents the first complete therapy solution tailored to the unique needs of women with OSA. It includes the AirSense 10 AutoSet™ for Her therapy device, with the first dedicated algorithm tailored to respond to female-specific characteristics of sleep disordered breathing.

Insightful reporting

The AirSense 10 AutoSet for Her also provides a respiratory effort-related arousal (RERA) reporting feature within AirView. This logs and stores effort-related sleep disturbances. Here, the patient tries to overcome obstruction and sustain their breathing regularity by increasing their effort, which finally results in an arousal. This new reporting feature, when combined with the new algorithm, provides additional clinical insight by identifying short apnoeas and flow limitation-related arousals.

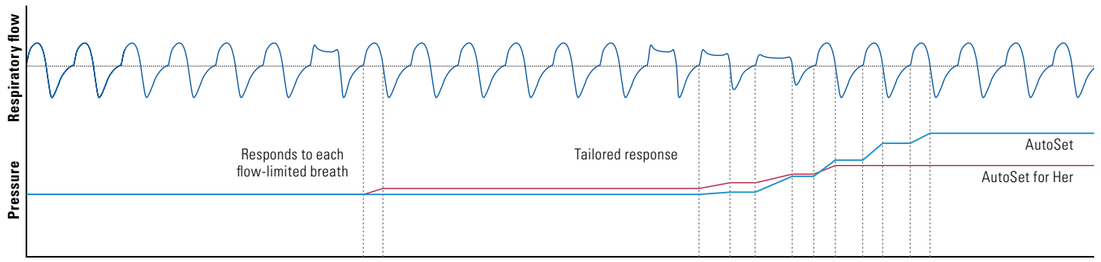


Gender-specific symptoms

Typically, women with sleep apnoea take longer to fall asleep, have more flow limitations, and more frequent sleep arousals than men.[5,7,8] Women also tend to have a lower apnoea–hypopnoea index (AHI), and fewer and shorter apnoeas than men, with a greater proportion of apnoeas occurring during REM sleep.[5] As symptoms differ substantially between genders, OSA may have been under-recognised in women in the past. Yet with women representing nearly 40% of all newly diagnosed sleep apnoea patients,[6] it's important to have a therapy device that meets their needs.

AutoSet for Her

The pioneering new AirSense 10 AutoSet for Her features ResMed's AutoSet algorithm and delivers therapeutic responses that have been tailored to the characteristics of OSA in women. Research has shown that women with OSA have more upper airway resistance than the general OSA population,[7] which is why the AutoSet for Her algorithm has been designed to be more sensitive to flow limitation. In addition, the algorithm provides more subtle changes in therapy pressure to minimise any sleep disturbance.



How the **AutoSet for Her** algorithm responds to flow limitation



A complete offering

The AirSense 10 AutoSet for Her can be paired with any mask in the AirFit for Her mask series to provide female patients with a complete therapy solution.

Masks designed for women also give female patients options that may lead to improved acceptance and increased adherence. In addition to the small-size cushion, AirFit for Her masks come with a smaller headgear and shorter straps which help to provide an optimal fit for women.

The headgear has also been designed to easily position over or under the hair to suit a variety of hairstyles, and is finished in a soft pink and grey colour scheme.



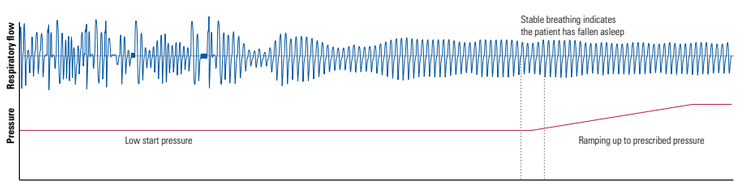
A new beginning in great sleep

From setting up to waking up, ResMed Air Solutions has been designed to deliver out-of-the-box comfort at every stage of your patients' treatment.

Every AirSense 10 and AirCurve 10 therapy device comes packed with cutting-edge features and technology working together seamlessly, so that comfort feels effortless. From the moment patients press Start, they are set up for a great night's sleep.

A comfortable start

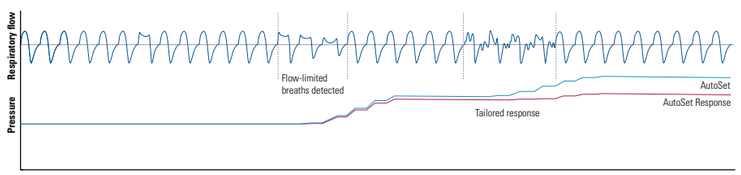
ResMed's AutoRamp™ feature with sleep onset detection, found in AirSense 10 devices, is designed to make therapy comfortable from the moment your patient turns on their therapy device. AutoRamp starts by delivering a low pressure to help patients fall asleep with ease. Once it detects they're asleep, it comfortably increases the pressure to the prescribed level to ensure therapy is delivered the moment they need it.



ResMed's **AutoRamp feature** with sleep onset detection ramps up to your patients' prescribed pressure once they've fallen asleep.

Tailored therapy

Patients on the AirSense 10 AutoSet device can benefit from the optional AutoSet Response setting. Delivering pressure increases more gently, this setting is helpful for patients who are more sensitive to pressure changes. And for patients using the AirCurve 10 CS PaceWave device, ResMed's clinically-published ASV algorithm constantly learns, responds, predicts and synchronises with your patient's respiratory pattern, to help maximise comfort during therapy.



ResMed's **AutoSet Response** delivers gentler pressure increases for even more comfort throughout the night.

Humidification made easy

With Climate Control Auto, every device is automatically set to deliver therapy at the most comfortable temperature and humidity levels.

When used with ResMed's HumidAir™ heated humidifier and ClimateLineAir™ heated tube, Climate Control Auto is activated automatically – no settings to change and no complicated menus to navigate. The **ClimateLineAir** tube also features a **360-degree swivel** connector, so patients can enjoy more freedom to move.



The AirFit mask series: quiet, light and compact

ResMed's AirFit mask series completes the comfort solution by offering patients a choice of lightweight, quiet and simple to use masks that provide visual freedom for easy therapy, no matter which one they choose.

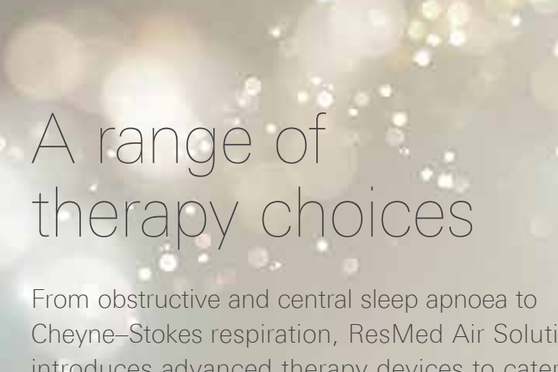
Every patient needs a mask that's comfortable, quiet and easy-to-use. But beyond that, they require a mask that meets their individual needs.

ResMed's new series of AirFit masks are lightweight and designed to deliver the ultimate in comfort throughout the night. All three masks are lightweight in design and provide a clear field of vision. What's more, the series has been created with the understanding that no one size fits all. **There is just the right fit for you and your patients.**



A range of therapy choices

From obstructive and central sleep apnoea to Cheyne–Stokes respiration, ResMed Air Solutions introduces advanced therapy devices to cater to your diverse patient base.



AirSense 10 devices

AirSense 10 CPAP*
is a standard fixed-pressure therapy device.

AirSense 10 Elite
is a premium fixed-pressure therapy device.

AirSense 10 AutoSet
is an auto-adjusting therapy device that features the renowned AutoSet algorithm.

AirSense 10 AutoSet for Her
is an auto-adjusting therapy device featuring the first dedicated algorithm to respond to female-specific characteristics of sleep apnoea.

AirCurve 10 CS PaceWave

AirCurve 10 CS PaceWave
is an adaptive servo-ventilator that targets recent minute-ventilation, and is designed to treat central sleep apnoea in all its forms (including mixed and complex sleep apnoea), and periodic breathing such as Cheyne–Stokes respiration.



	AirSense 10 CPAP*	AirSense 10 Elite	AirSense 10 AutoSet	AirSense 10 AutoSet for Her	AirCurve 10 CS PaceWave
Therapy modes					
AutoSet			•	•	
AutoSet for Her				•	
ASVAuto					•
ASV					•
CPAP	•	•	•	•	•
Clinical insight					
Cheyne–Stokes respiration detection		•	•	•	
Central sleep apnoea detection		•	•	•	
Respiratory-related effort arousals (RERA)				•	
Comfort features					
AutoSet algorithm with AutoSet Response			•	•	
AutoRamp with sleep onset detection	•	•	•	•	
Climate Control	•	•	•	•	•
Climate Control Auto	•	•	•	•	•
Expiratory pressure relief (EPR™)	•	•	•	•	
SmartStart™	•	•	•	•	•
Vsync					•
Data					
Built-in wireless connectivity**	•	•	•	•	•
AirView	•	•	•	•	•
AirView's remote assist	•	•	•	•	•
ResScan™ data management software	•	•	•	•	•
SD card	•	•	•	•	•

* Tender only ** Devices without built-in wireless connectivity are also available.



1 OpinionWay poll. Private phone survey of 1012 patients with CPAP and telemonitoring. France 2014.
2 Fox N et al. The impact of a telemedicine monitoring system on positive airway pressure adherence in patients with obstructive sleep apnea: a randomized controlled trial. *Sleep* 2012;35:477–81.
3 Schoch O et al. Improved adherence to CPAP by telemetric support in newly diagnosed OSAS patients. *Eur Respir J* 2013;42:P2045.
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5 Lin CM, Davidson TM, Ancoli-Israel S. Gender differences in obstructive sleep apnea and treatment implications. *Sleep Med Rev* 2008;12(6):481–96.
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