

ResMed

Astral™ series

Life support ventilators



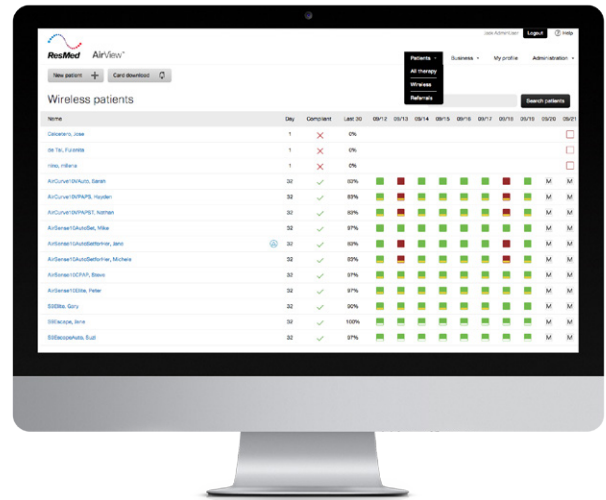
Supporting your patients' every breath

[ResMed.com/Astral](https://www.ResMed.com/Astral)

Stay informed of patient changes throughout the therapy journey

Improve patient care through connectivity. Astral's connectivity to AirView™ gives physicians and home medical equipment providers (HMEs) access to key patient data in the cloud, enabling efficient and collaborated patient care:

- Stay regularly informed on patient progress and provide more timely intervention before a potential problem or hospitalization occurs.†
- Daily access to key ventilation parameters such as usage, Apnea Hypopnea Index (AHI),†† tidal volume, minute ventilation and respiratory rate.
- Manage sleep and ventilation patients in one system that is easy to use.



AirView™



Monitoring options with at-a-glance visuals

ResScan™: ResMed's patient data management software provides clinicians with a great way to view statistical, summary, detailed and alarm data.

FiO₂ and oximetry: Integrated FiO₂ and optional SpO₂ monitoring are available.

Real-time waveforms: Pressure and flow waveforms are quickly accessible on Astral's large color touch-screen, while offering continuous patient trending.

Added safety features provide peace of mind when caring for dependent patients

Alarms: Astral is equipped with a set of fixed and adjustable alarms, categorized by priority.

Disconnection Alarm: The dedicated disconnection alarm allows for patient customization and gives caregivers peace of mind.

Big button: Included for quick access to start or stop ventilation, as well as to mute alarms, this feature is particularly useful for those with impaired dexterity or eyesight.



Big button for greater accessibility

† Data not available in real time.
 †† AHI not available in all modes.

Astral with iVAPS™

A smarter solution for portable ventilation

Astral's latest set of clinical enhancements, which includes iVAPS (intelligent Volume-Assured Pressure Support), make it the industry's smartest life support ventilator. As each patient's condition changes, so may their therapy needs. That's why Astral, already renowned for its portability and intuitive color touch-screen, now features a suite of intelligent technologies that deliver adaptive ventilation to suit each patient's individual needs.



iVAPS

intelligent Volume-Assured Pressure Support (iVAPS): Targets and intelligently maintains each patient's alveolar ventilation.



iBR

intelligent Backup Rate (iBR): Provides backup breaths only when needed to give patients a chance to spontaneously trigger the ventilator.

Personalized for patient comfort

With nine different therapy modes, including the newly added iVAPS, Astral offers the ultimate in personalized comfort. With offerings of single leak, single valve and double limb circuits, you can cater to a wide range of patient types – from adults to pediatric patients weighing as little as 5kgs (iVAPS therapy mode is indicated for patients weighing 30 kg and above). And for patients requiring oxygen therapy, Astral accommodates flow rates of 30 L/min, with integrated FiO₂ monitoring in Astral 150 for fine-tuning of oxygen therapy.

Astral also features the following technologies that can be fine-tuned to allow you to tailor therapy on a patient-to-patient basis, for individualized comfort and synchrony.



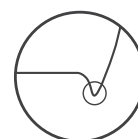
Vsync

Vsync for automated leak management



TiControl

TiControl™ for customized minimum and maximum inspiratory thresholds



NIV+

NIV+ technology for greater sensitivity in trigger detection



Greater freedom

Astral ventilators strike the perfect balance of battery run-time with weight and portability to give patients the



Battery options: With an internal battery lasting up to 8 hours, and the capacity to add two external batteries, Astral's battery life can be extended up to 24 hours.



Mobility bags: When patients are ready for mobility, they have the choice of two custom-built, protective mobility bags that allow for uninterrupted ventilation on the go.

Designed with efficiency in mind

Astral's award-winning design, easy setup and simple servicing make ventilation support straightforward and efficient.

Quick and easy setup: Astral's intuitive navigation and menus streamline staff training and enable consistent and accurate patient setup. And with QuickConnect™, you can easily incorporate two pressure lines into one.



Award-winning designs: Astral's craftsmanship was recognized in 2014 with an International Red Dot Award for product design, as well as Australia's Good Design Award.



...the freedom to get out and enjoy day-to-day activities.



Remote alarm II: Patients on life support require close attention and care, but they can recuperate with an appropriate amount of independence by staying connected to remote or hospital alarm systems.



Circuit Support Arm: With its modern, flexible design and easily adjustable clamp, ResMed's mouthpiece ventilation circuit support arm not only conforms to therapy delivery requirements, it adapts to the lifestyle of your patients.



Astral specifications

	Astral 100	Astral 150
Indications for use	Life support for patients over 5 kg*	Life support for patients over 5 kg*
Circuit		
Single circuit with leak	•	•
Single circuit with valve	•	•
Double circuit		•
Therapy		
Valve circuit therapy: CPAP, (A)CV, P(A)C, P-SIMV, V-SIMV, PS	•	•
Leak circuit therapy: CPAP, (S)T, P(A)C, iVAPS*	•	•
Manual breath		•
Sigh breath (recruitment)		•
Apnea ventilation	Volume and pressure	Volume and pressure
Preset programs	2	4
Pressure range and settings		
Delivered pressure (cm H ₂ O)	2–50 (leak circuit) 0–50 (valve circuit)	2–50 (leak circuit) 0–50 (valve circuit)
Delivered tidal volume (cm H ₂ O)	Adult: 100 to 2500 mL Pediatric: 50 to 300 mL	Adult: 100 to 2500 mL Pediatric: 50 to 300 mL
Respiratory rate	Adult: Off, 2 to 50 bpm Pediatric: Off, 5 to 80 bpm	Adult: Off, 2 to 50 bpm Pediatric: Off, 5 to 80 bpm
Data		
SpO ₂ monitoring	Optional	Optional
FiO ₂ monitoring	Optional	Standard
On screen	30 days of summary data Real-time pressure and flow (25 Hz)	30 days of summary data Real-time pressure and flow (25 Hz)
AirView	•	•
ResScan™ (via download)	365 days of summary data 7 days of detailed data	365 days of summary data 7 days of detailed data
Alarms	A wide range of settable alarms are available, including FiO ₂ and SpO ₂ when connected.	
Dimensions		
Weight	3.2 kg	3.2 kg
Dimensions (L x W x H)	285 mm x 215 mm x 93 mm	285 mm x 215 mm x 93 mm
Internal battery	Lithium-Ion battery, 14.4 V, 6.6 Ah, 95 Wh. 8-hour run time	Lithium-Ion battery, 14.4 V, 6.6 Ah, 95 Wh. 8-hour run time
Sound power level	43 ± 3 dBA**	43 ± 3 dBA**
Sound pressure level	35 ± 3 dBA**	35 ± 3 dBA**
IEC 60601-1 CLASSIFICATIONS:	Class II (double insulation) Type BF Continuous operation Suitable for use with oxygen	
Medical electrical equipment - general requirements for basic safety and essential performance.		

* iVAPS therapy mode is indicated for patients weighing 30 kg and above.
** As measured according to ISO 80601-2-12:2011



Patient identity and data are fictional.
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Product and accessory codes



Astral 150
27003
Astral 100
27001



Homecare stand
279001



Astral mobility bag
27917



Astral SlimFit mobility bag
27949



Astral table stand
27915



External battery
27919



Astral Remote Alarm II
27903
(does not include cable)



Single circuit smooth
bore 15mm
QuickConnect™ circuit
21312



ResMed Connectivity Module
(Requires rental agreement)
27201

See the ventilation accessories catalog for the full suite of ResMed accessories.