



Astral™
Enrich life



Astral Hospital Brochure



Enrich life

From initial setup to everyday use, the Astral 100 and Astral 150 life support ventilators offer confident care, greater portability and designed efficiency to enrich you and your patients' lives.

- **Confident care**

Astral offers a range of treatment options for both adult and pediatric patients. It is compatible with a variety of patient interfaces and is designed for both invasive and noninvasive applications.

- **Greater portability**

Astral is lightweight and has an 8-hour internal battery, promoting intra-facility transport. Its size and weight allow it to be used during transfer and mobilization of patients in critical care areas, promoting the pulmonary rehabilitation process.

- **Designed efficiency**

With easy setup, simple servicing and an intuitive interface, Astral has been designed to make ventilation support straightforward and efficient.



Confident care

Versatile treatment options

Astral delivers excellence in leak and valve ventilation for invasive and noninvasive applications and provides a full suite of therapy modes to suit both adult and pediatric patients. Astral's double limb circuit configuration ensures accuracy in ventilation with measurement of exhaled tidal volumes in even your smallest patients.

Easy monitoring

Real-time waveforms and patient information are displayed on the large color touch screen to ensure correct setup and to monitor patient condition. FiO_2 and SpO_2 are integrated to complete the therapy picture. RSBI monitoring can serve as an adjunct when weaning patients from the ventilator. Modes like P-SIMV, V-SIMV and CPAP – as well as the ability to set four programs – is another way in which Astral provides a solution for weaning environments.

Simple patient setup

Astral's intuitive interface, presettable programs and setup assistant allow for fast and accurate patient setup. The QuickConnect™ valve circuits have been specifically designed to reduce known and common setup errors so therapy can be delivered quickly and safely.



A full suite of modes offer versatile therapy options as the patient's condition progresses.

Greater portability

Balancing battery capacity with portability

Mobility in its most practical sense requires balancing battery run-time with the weight and portability of the ventilator. At just 7 lbs with an 8-hour internal battery, you can provide patients with greater mobility knowing they have the reliability of Astral behind them. The combination of internal and external batteries provides up to 24 hours of run-time, so planning patient transports, rehabilitation and daytime activities can be scheduled with confidence.

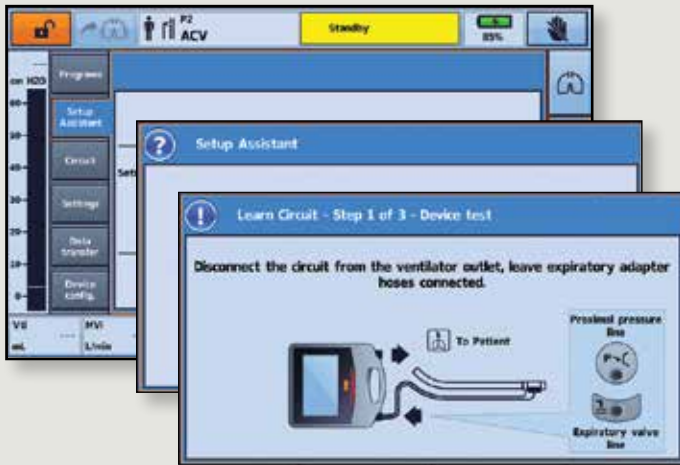
Designed efficiency

Saving time during training and patient setup

Astral's intuitive interface and easy operation can alleviate training pressures and minimize training time. Easy navigation with user-friendly menus enable quick and confident setup so clinicians can focus on what's important: the overall care of patients.

Simple servicing

Astral's modular design requires minimal parts and components to make servicing simple and straightforward. Long-service intervals deliver our best efficiencies yet. Servicing can be provided by our ResMed Service Center or your staff can be trained in servicing Astral – the choice is yours.



The built-in Learn Circuit feature evaluates and compensates for resistance in the circuit to optimize ventilation and ensure accuracy in monitoring.



Real-time pressure and flow waveforms display essential therapy parameters on the large touch screen and allow detection of patient-device asynchrony.



Hospital trolley

ResMed's hospital trolley has been designed to transport Astral around any hospital or clinical setting. It features the option of a medical grade power strip located in the center console, which lets you connect multiple electrical devices and power them with just one cord.













Remote alarm II

ResMed's Remote Alarm II provides the convenience of monitoring alarms from another room, ward or central monitoring station. It offers peace of mind and freedom for caregivers to move away from the patient's bedside without compromising patient safety.





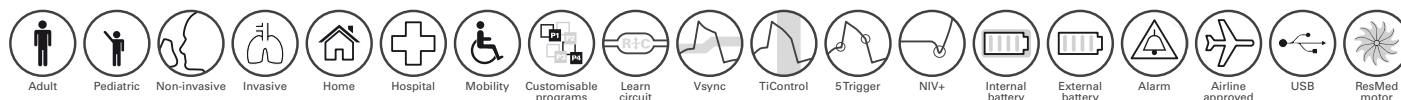
Devices and accessories

	Astral 100, 27001 Astral 150, 27003
	Astral Mobility Bag 27917
	External Battery 27919
	Astral Table Stand 27915
	Remote Alarm II 27903 (does not include cable)
	Remote Alarm II Cable 2 m 27904 , 5 m 27905 , 10 m 27906 , 20 m 27907
	Nurse Call Cable 27912
	Single circuit smooth bore 22 mm with QuickConnect
	Pulse Oximeter 22305
	Hospital Trolley 27914



Technical Specifications	Astral 100	Astral 150
INDICATIONS FOR USE	Life support for patients above 11 lbs (5 kg)	Life support for patients above 11 lbs (5 kg)
CIRCUIT		
Single circuit with leak	•	•
Single circuit with valve	•	•
Double circuit		•
THERAPY		
Valve circuit therapy: CPAP, ACV, PACV, P-SIMV, V-SIMV, PS	•	•
Leak circuit therapy: CPAP, ST, PAC	•	•
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	•
7 days of high-resolution data with 25Hz pressure and flow	On screen and download	On screen and download
365 days of summary data	On screen and download	On screen and download
ALARMS	A wide range of settable alarms are available including FI ₂ and SpO ₂ when connected.	
DIMENSIONS		
Weight	7 lbs (3.2 kg)	7 lbs (3.2 kg)
Dimensions (L x W x H)	11.22" x 8.46" x 3.6" (285 mm x 215 mm x 93 mm)	11.22" x 8.46" x 3.6" (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	
*As measured according to IEC80601-2-12:2011		

Astral features



ResMed.com