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Astral™
Enrich life



Astral 100 and 150:
Time to rethink respiratory care



Versatile life support ventilation

ResMed's Astral™ 100 and Astral™ 150 life support ventilators offer excellence in invasive and noninvasive ventilation without compromise. From initial setup to everyday use, Astral offers greater freedom, confident care, and designed efficiency to enrich life for you and your patients.

- Greater freedom

Astral's discreet and lightweight design allows patients to go beyond the confines of the healthcare environment, while delivering real peace of mind to them, their clinicians and caregivers.

- Confident care

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

- Designed efficiency

With easy setup, simple servicing and an intuitive interface, Astral is 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, as well as providing a full suite of therapy modes to suit both adult and paediatric patients.

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.

Easy monitoring

Real-time waveforms and patient information are displayed on the large colour touchscreen to ensure correct setup and to track patient condition. FiO_2 and SpO_2 are integrated to complete the therapy picture.



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

Greater freedom

Peace of mind with long battery life

Astral ventilators are designed for patient freedom. The combination of internal and external batteries provides up to 24-hours* run-time. Planning day-to-day activities is easier because Astral has the power to keep going, hour after hour.

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 3.2 kg with an 8-hour internal battery, patients can now go longer, and travel further, knowing they have the reliability of Astral behind them.

Discreet by design

Contemporary design offers your patients a streamlined, discreet, life support device that sits quietly in the background.

Designed efficiency

Simplifying inventory management

Astral can treat a broad range of respiratory conditions in paediatric and adult patients, so just one device can go a lot further. Fast turnaround times and simple servicing also reduce the need for backup ventilators, saving both time and money.

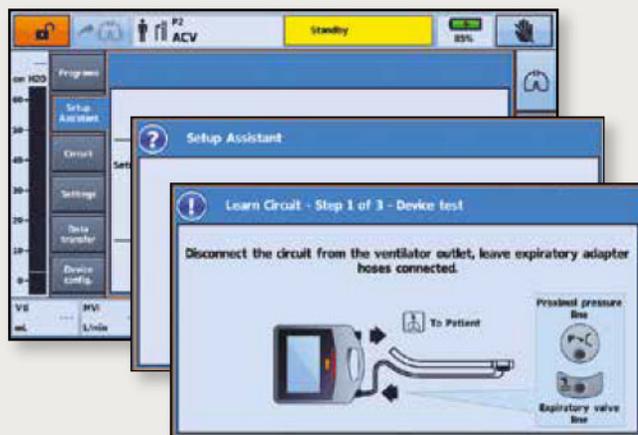
Saving time during training and patient care

Astral's intuitive interface and easy operation can minimise training time. Easy navigation with user-friendly menus enable quick and confident setup so you and your staff can focus on what's important – the overall care of your patients.

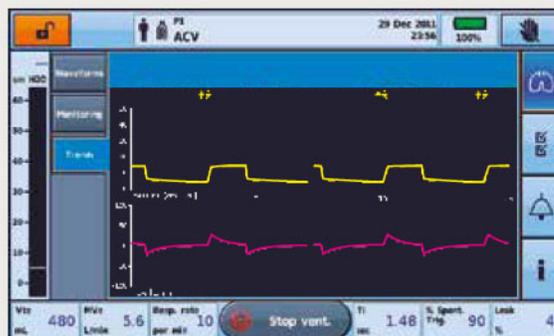
Simple servicing

Easy servicing has been built into Astral. The pneumatic block can be quickly and seamlessly swapped during an in-field service or at the service centre, reducing downtime for the device, and improving cost efficiencies.

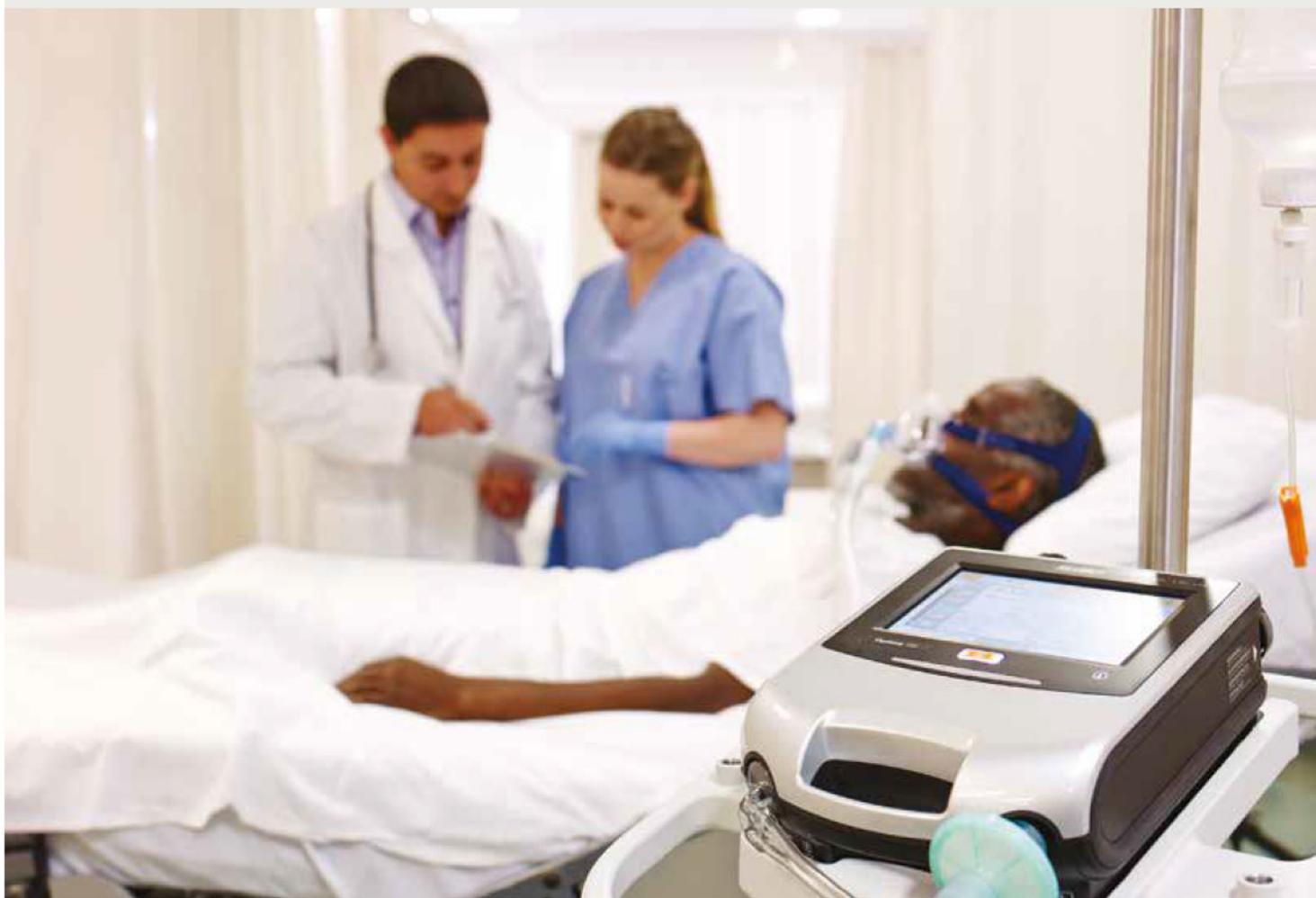
* With the 8-hour internal battery and two 8-hour external batteries.



The built-in Learn Circuit feature evaluates and compensates for resistance in the circuit to optimise ventilation and deliver the right pressure and flow at the mask.



Real-time pressure and flow waveforms display essential therapy parameters on the large touchscreen.



Mobility bags

ResMed offers two mobility bags for Astral ventilators – a bag that fits the device and all its essential accessories, and an ultra-light SlimFit bag for the Astral device on its own. Broad, comfortable shoulder straps make the bags easily portable, plus extra straps allow for easy mounting onto wheelchairs.



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 centre 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.



A complete respiratory system

Astral easily connects to the HumiCare™ D900 heated humidifier to reduce the risk of ventilator associated complications and actively condition the air.



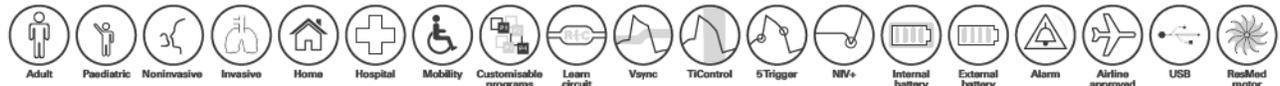
ResMed

Ordering information

	Astral 150 – APAC 27083
	Astral 100 – APAC 27081
	HumiCare D900
	Hospital trolley 27914
	Astral mobility bag 27917
	Astral SlimFit mobility bag 27949
	Astral table stand 27915
	External battery 27918
	Remote Alarm II ROW 27902 (does not include cable)
	Single circuit smooth bore 22 mm with QuickConnect
	Oximetry set with reusable soft sensor 22370

Technical 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, ACV, PACV, P-SIMV, V-SIMV, PS	•	•
Leak circuit therapy: CPAP, ST, PAC	•	•
Manual breath		•
Sigh breath (recruitment)		•
Apnoea 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 Paediatric: 50 to 300 mL	Adult: 100 to 2500 mL Paediatric: 50 to 300 mL
Respiratory rate	Adult: Off, 2 to 50 bpm Paediatric: Off, 5 to 80 bpm	Adult: Off, 2 to 50 bpm Paediatric: 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 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	
* As measured according to IEC80601-2-12:2011		

Astral features



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