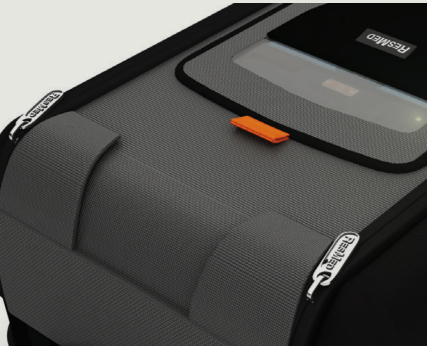# ResMed

Astral™
Enrich life

Mobility Bag

Astral's robust mobility bag neatly holds the device along with all its accessories. The user interface can be operated through the bag's transparent panel, and the broad, comfortable shoulder straps make the bag easy to carry—while additional straps allow for simple 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—just as your patient's airway normally would.

Accessories

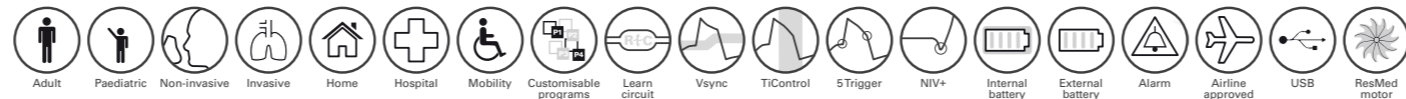|	
Astral Mobility Bag	**27917**
External Battery	**27918**
HumiCare D900	**18404** (UK)
Astral Table Stand	**27915**
Remote Alarm II	ROW **27902** (does not include cable)
Remote Alarm II Cable	2 m **27904**, 5 m **27905**, 10 m **27906**, 20 m **27907**
Single circuit smooth bore 22 mm with QuickConnect	
Pulse Oximeter	**22305**
Hospital Trolley	**27914**

Swift™ FX Mirage™ FX Quattro™ Air

Technical Specifications

Technical Specifications	Astral 100	Astral 150
INDICATIONS FOR USE	Life Support for patients above 5 kg	Life Support for patients above 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_2O)	2–50 (leak circuit) 0–50 (valve circuit)	2–50 (leak circuit) 0–50 (valve circuit)
Delivered Tidal Volume (cm H_2O)	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:
Medical electrical equipment - general requirements for basic safety and essential performance.

Class II (double insulation) Type BF
Continuous operation
Suitable for use with oxygen

[*] As measured according to IEC80601-2-12:2011

Astral features

Adult · Paediatric · Non-invasive · Invasive · Home · Hospital · Mobility · Customisable programs · Learn circuit · Vsync · TiControl · S Trigger · NIV+ · Internal battery · External battery · Alarm · Airline approved · USB · ResMed motor

ResMed.com

Introducing Astral

Introducing the Astral 100 and Astral 150 life support ventilators. From initial set-up 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 home or 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 set-up, simple servicing and an intuitive interface, Astral has been designed to make ventilation support straightforward and efficient.
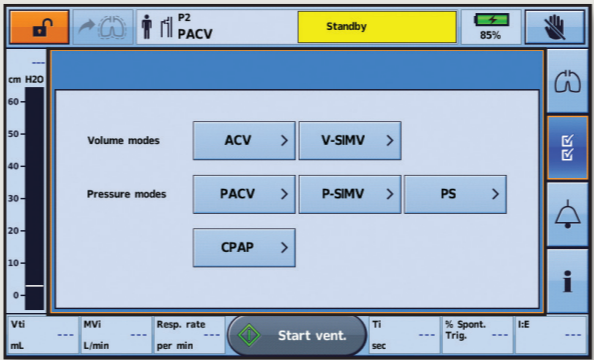
Confident care

Versatile treatment options

Astral delivers excellence in leak and valve ventilation for invasive and noninvasive applications, as well as providing a full suite of therapy modes to suit both adult and paediatric patients.
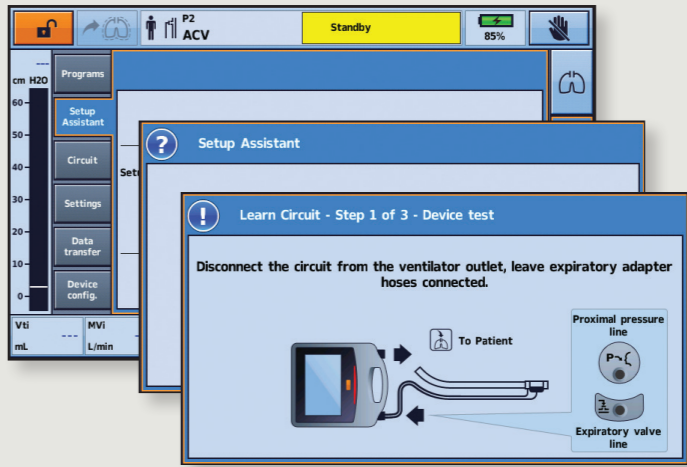
Simple patient set-up

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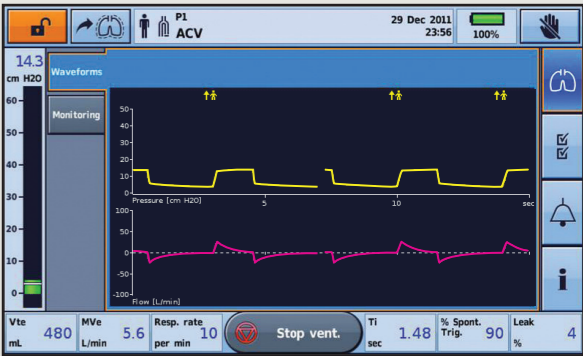
Easy monitoring

Real-time waveforms and patient information are displayed on the large colour touch screen to ensure correct set-up and to track patient condition. FiO$_2$ and SpO$_2$ are integrated to complete the therapy picture.

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

The in-built 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 touch screen.

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 back-up ventilators, saving both time and money.

Saving time during training and patient care

Astral's intuitive interface and easy operation can alleviate training pressures and minimise training time. Easy navigation with user-friendly menus enable quick and confident set-up 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.