



Astral™
Enrich life



PORTEA
HEAL AT HOME



Introducing Astral

From initial setup to everyday use, the Astral™ 100 and Astral 150 life support ventilators offer 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 health care 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 pediatric 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 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.

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 color touch screen to ensure correct setup and to monitor the patient's 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.

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 7 lbs (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

The 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 pediatric 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 alleviate training pressures and minimize 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

The pneumatic block can be quickly and seamlessly swapped during an in-field service or at the service center, 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 optimize 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.



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. 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 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 22374
	Hospital Trolley 27914
	Homecare Stand 27947

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 (cmH ₂ O)	2–50 (leak circuit) 0–50 (valve circuit)	2–50 (leak circuit) 0–50 (valve circuit)
Delivered Tidal Volume (cm ³ H)	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 FiO 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: 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

