### Set up for choice

This versatile ventilator provides extensive options for patient treatment and offers caregivers the confidence that each transition will be smooth and effective.





### Astral specifications

	Astral 100	Astral 150
Indications for use	Life support for patients over 5 kg*	Life support for patients over
Circuit		
Single circuit with leak	•	•
Single circuit with valve	•	•
Double circuit		•
Mouthpiece circuit	•	•
Therapy		
Valve circuit therapy: CPAP, (A)CV, P(A)CV, P-SIMV, V-SIMV, PS	•	•
Leak circuit therapy: CPAP, (S)T, P(A)C, iVAPS* with iBR and optional AutoEPAP	•	•
Mouthpiece circuit therapy: (A)CV, P(A)CV, PS	•	•
Manual breath		•
Sigh breath (recruitment)		•
Apnoea ventilation	Volume and pressure	Volume and pressure
Preset programmes	2	4
Pressure range and settings		
Delivered pressure (cm H <sub>2</sub> 0)	2–50 (leak circuit) 0–50 (valve circuit)	2–50 (leak circuit) 0–50 (valve circuit)
Delivered tidal volume (cm H <sub>2</sub> 0)	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 bpr
Data		
SpO <sub>2</sub> monitoring	Optional	Optional
FiO <sub>2</sub> monitoring	Optional	•
On screen	30 days of summary data Real-time pressure and flow (25 Hz)	30 days of summary data Real-time pressure and flow (2
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 is available including FiO <sub>2</sub> and SpO <sub>2</sub> when connected.	
Physical and general specifications		
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**
<b>IEC 60601-1 CLASSIFICATIONS:</b> Medical electrical equipment - general requirements for basic safety and essential performance.	Class II (double insulation) Type BF Continuous operation Suitable for use with oxygen	

\* iVAPS therapy mode is indicated for patients weighing 30 kg and above. \*\* As measured according to ISO 80601-2-12:2011 Refer to the user guide for further instructions including indications, contraindications, warnings and precautions.



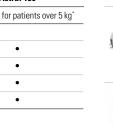
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### Product and accessory codes

Astral 150

#### Astral 150



<b>27083</b> Astral 100		
Astral mobility bag		





Astral SlimFit mobility bag 27949

Remote Alarm II

(does not include cable)

Oximetry set with reusable



External battery 27918

27902



of summary data essure and flow (25 Hz) s of summary data of detailed data



MPV circuit support arm 27955

22370

soft sensor



EasySpeak mouthpiece angled with: 15 mm male connection 21351 22 mm male/15 mm female connection 21354 22 mm female connection with 17 cm flexi-tube



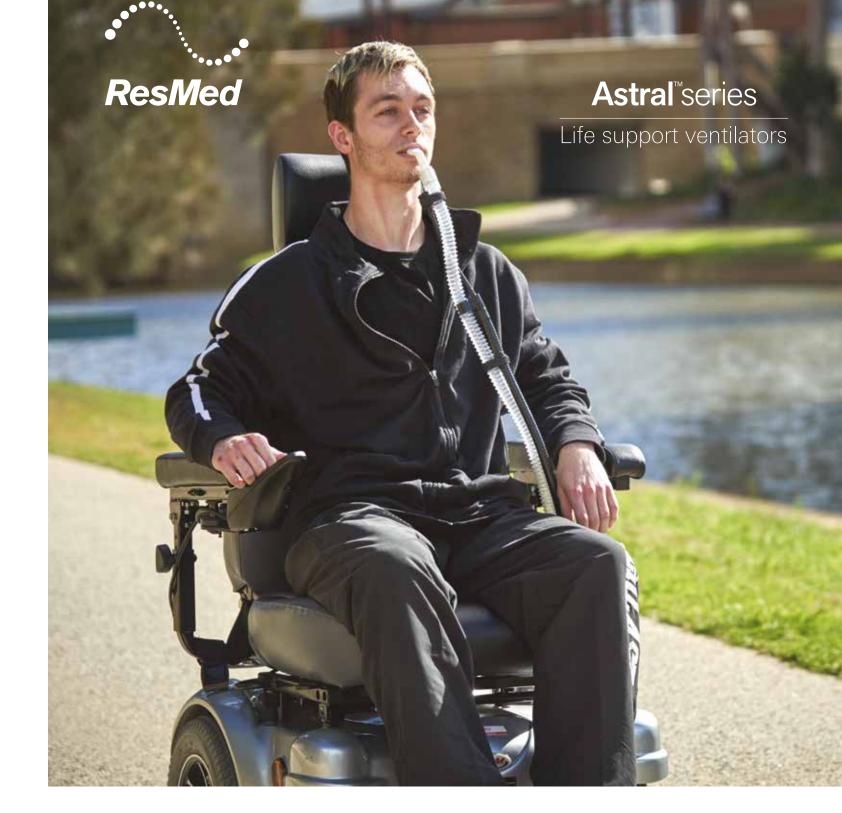


Homecare stand without ۲ interface/top plate ų, 27963 Astral top plate 27956 Homecare stand IV pole kit

21353

27948 Circuit support arm 24917





# Astral. It's about choices.

Astral provides acute and long-term care to patients on life support in hospitals and at home. Practical and versatile, with multiple configurations, Astral supports effective therapy and monitoring while offering autonomy and mobility.



### Secure by design

With sophisticated technologies and advanced alarms, Astral simplifies life for caregivers and patients.

## Versatile, practical, liveable

Astral supports usability and effective therapy, day and night, whether it's being used for tracheotomised patients or non-invasively with a mask or mouthpiece.





Variety of modes, circuits and interfaces With nine therapy modes, multiple patient interfaces, and compatibility across mouthpiece, single leak, single valve and double limb circuits, Astral caters for less dependent to fully dependent adults and children weighing as little as 5kg.





### Reliable notification with disconnection alarm

Astral's disconnection alarm can be titrated to a wide range of setups. Titrated values are constantly compared to actual circuit resistance and even small changes, like disconnection of a small diameter tracheotomy tube, will trigger the alarm.



### Confident adjustment with Powered for everyday Learn Circuit

Learn Circuit is a reassuring system that Weighing just 3.2 kg with long-lasting measures and adjusts circuit resistance and compliance to reflect the chosen breathing circuit components. Whether the set up requires a smallbore circuit or an active humidifier with heated tubing, Astral will adapt and compensate to ensure the patient receives effective ventilation at the prescribed settings.



### living

batteries, Astral can operate up to 16 hours on external battery alone. It also features an internal battery that delivers an extra 8 hours of backup power if needed. With reliable power, patients can enjoy everyday activities and spend time away from home.



### Smart mouthpiece ventilation (MPV)

Mouthpiece ventilation is easy and accessible with Astral. Four ventilation programmes can be fully pre-configured and Patients can switch between a mouthpiece or mask without named, making it fast and simple to switch treatment when changing the circuit in any kind of setup. Triggering sensitivity time or circumstances demand it. can be adjusted to ensure the machine delivers support that + I key matches the patient's inspiratory effort.

- Touch<sup>\*</sup>, for little to no effort: triggers at the touch of the mouthpiece
- Standard, for higher effort: triggering sensitivity can be set at low, medium or high
- Off: for patients who are fully dependent on a back-up rate



### Practical programmes for daily life



### Work fast and efficiently

From initial setup to ongoing care, Astral is designed to provide the best user experience possible. Its intuitive interface gives you all the tools and information you need, so you can make fast and early decisions.





#### Insight and control

Astral's intuitive interface facilitates quick and accurate therapy setup and patient monitoring. Its large screen clearly shows precise, breath-by-breath statistics on tidal volume, respiration rate, minute ventilation and inspiration flow.

Auto-scaling real-time pressure and flow waveforms provide an instant snapshot of patient trends.



#### Maintenance and services

#### Easy device management:

information screens show basic and advanced device information and track the status of internal and external batteries. When scheduled service dates draw near, optional automated reminders appear on screen.

Fast USB setup: device settings can be copied to a USB memory drive and used to seamlessly set up multiple devices or transfer settings to another Astral.

