

RESMED

Stellar™ 150

ADULT AND PAEDIATRIC VENTILATOR FOR HOSPITALS

Easy access to intelligent therapy



Adult use



Paediatric use



Remote alarm



SpO₂



FiO₂

Respiratory Care Solutions
Making quality of care easy

Stellar 150 ... the versatile multi-purpose ventilator

ResMed's Stellar 150 ventilator is well suited for a wide range of hospital care environments. It's designed for invasive and noninvasive (NIV) applications on adult and paediatric patients and offers reliable, intelligent ventilation in one easy, accessible device.

Light, small and quiet, the Stellar 150 combines simplicity with advanced technologies, such as ResMed's iVAPS, Vsync and TiControl™.

From set-up to therapy management and monitoring, Stellar 150 helps establish confidence among clinical staff.

Versatility across a variety of hospital settings

Alarm adjustments and extensions—more efficient use of staff time. Stellar 150 offers convenience for busy clinical staff who need to minimise their time by the patients' bedside. The volume on the Stellar 150 alarms is adjustable and the alarm audibility area can be extended via the Remote Alarm II or direct connection to the Hospital alarm system through a cable.

Mobility and portability—help move patients quickly.

The light weight, compact Stellar 150, with its internal battery¹ is particularly well suited to get patients up and moving quickly in order to commence rehabilitation quickly.

Stellar 150 makes it easier to move patients within the hospital or transfer them without disrupting therapy.

The ventilator and the optional ResMed Power Station II (RPS II) external battery² can all be practically arranged, transported and protected in the purpose-built mobility bag.

Easy monitoring—quick access to patient therapy

For quick and easy monitoring of the patient, the Stellar 150 displays live pressure curves on the screen at the touch of a button. When more detailed monitoring is required this can be downloaded in one easy step with the data management system. Real-time remote monitoring is also facilitated via EasyCare Tx and the Tx link.

Advanced functionality—for high performance and low maintenance

High oxygen delivery: The device can use up to 30 L/min³ of oxygen, so a high FiO₂ can be reached.

Low-inertia blower: Comprised of ResMed's unique low inertia motor and impeller, it delivers higher performance more quietly than a conventional motor.

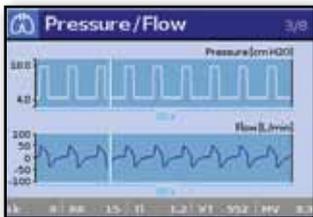
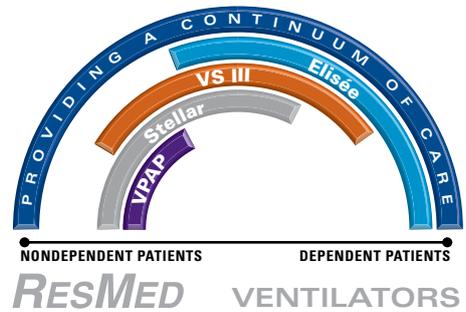
Removable, replaceable air path: For easier and quicker device cleaning and servicing, reducing down-time.



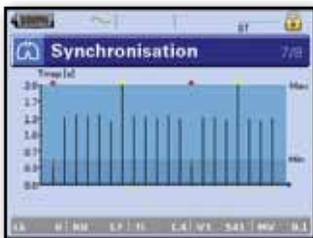
¹ Two hours capacity at EPAP 5 cm H₂O, IPAP 15 cm H₂O, 20 bpm

² Eight hours capacity per battery at EPAP 5 cm H₂O, IPAP 15 cm H₂O, 20 bpm

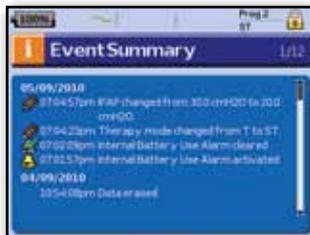
³ iVAPS can only be used with 4 L/min of O₂



Live comprehensive monitoring information at your fingertips



The Synchronisation screen displays spontaneous versus machine-triggered/cycled breaths



The Event Summary screen provides a quick overview of the main events, such as setting changes and alarms

Leading ResMed technologies

Vsync and TiControl compensate for leak and keep your patient in synchrony with the ventilator. Proven ResMed noninvasive ventilation technologies work together to improve ventilation, disease management, patient comfort and sleep quality. As a result, therapy acceptance improves because the patient's breathing is more 'in sync' with their device.

Learn Circuit ensures that the patient receives what you prescribe. Impedance in the circuit varies based on circuit components, including anti-bacterial filters, humidifiers, tubing and other accessories. Unknown circuit impedance can lead to inaccurate monitoring and errors in pressure delivered at the mask, impacting the effective delivery of therapy. The Stellar 150 overcomes impedance in the circuit by automatically testing with Learn Circuit, that calculates and compensates for changes to impedance, so that you can be assured patients are monitored and treated correctly.

iVAPS (intelligent Volume-Assured Pressure Support) uniquely targets alveolar ventilation and is designed to maintain this by automatically adjusting Pressure Support. It also has an intelligent Back-up Rate (iBR) accommodating changes in your patient's respiratory rate to consistently meet the required ventilation target.

Combining the comfort and synchrony of pressure support with the assurance of a target volume, iVAPS technology maintains appropriate alveolar ventilation even as the patient's respiratory needs change. It is suitable for non-dependent, spontaneously breathing patients who weigh at least 30 kg. Hypercapnic patients with respiratory disorders are most likely to benefit from treatment with iVAPS, especially patients whose compliance may change or patients with progressive conditions.



Stellar 150 system and accessories—ordering information

	Stellar 150 ANZ and APAC 24162
	H4i Heated Humidifier for Stellar ANZ 26951 APAC 24930
	HumiCare D900 18405
	Mobility bag 24977
	Pulse oximeter 22305 (Oximeter cable) 16936 (1 sensor and 25 tapes)
	FiO ₂ monitoring kit (does not include FiO ₂ monitoring sensor CAP008617) 24955
	Remote Alarm II (does not include cables) ROW 27902
	30 m Hospital Alarm System cable 24977
	ResMed Power Station II Battery and bag 24921 DC cable 24959 Power supply 90W ANZ and APAC 36824
	ResMed leak valve 24988

Specifications

STELLAR 150

MODES	iVAPS (intelligent Volume-Assured Pressure Support) S/T (Spontaneous/Timed) PAC (Pressure Assisted Control) CPAP (Continuous Positive Airway Pressure) S (Spontaneous) T (Timed)
PRESSURE RANGE	IPAP: 2–40 cm H ₂ O EPAP: 2–25 cm H ₂ O
TiCONTROL	Ti Max 0.3–4 sec Ti Min 0.1–Ti Max
RESPIRATORY RATE	5–60 bpm
RISE TIME	Min, 150–900 msec (approx.)
TRIGGER AND CYCLE	Five sensitivity settings
ADJUSTABLE ALARMS	High Leak Low Minute Ventilation High Pressure Low Pressure High Respiratory Rate Low Respiratory Rate Apnea High FiO ₂ Low FiO ₂ Low SpO ₂ Non-vented mask
STANDARD FIXED ALARMS	Circuit disconnected Over pressure Blocked tube Internal battery empty (See Clinical Guide for full list of alarms)
DIMENSIONS (L x W x H)	230 x 170 x 120 mm
WEIGHT	2.1 kg
AIR FILTER	Electrostatic fibre mesh
AIR OUTLET	22 mm taper, compatible with ISO 5356–1:2004
INTERNAL BATTERY	Lithium-ion, 2 hours at EPAP 5, IPAP 15, 20 bpm
POWER SUPPLY	AC 100–240V 50–60Hz, 2.2A AC 110V 400Hz, 2.2A DC 24V/3A
IEC 60601–1 CLASSIFICATION	Class II (double insulation) Type BF Continuous operation

RESMED POWER STATION II

BATTERY TECHNOLOGY	Lithium-ion
RECHARGE TIME	4 hours from fully empty to fully charged
BATTERY DURATION	8 hours per battery at EPAP 5 cm H ₂ O, IPAP 15 cm H ₂ O and 20 bpm (two batteries can be connected simultaneously. See www.resmed.com/RPSII for more details)
CAPACITY	<100 Wh
DIMENSIONS (L x W x H)	230 x 126 x 26 mm
BATTERY WEIGHT	0.9 kg
POWER SUPPLY	Input range 100–240 V, 50–60 Hz, 1.0–1.5 A Nominal for aircraft use 110 V, 400 Hz



For more information
on Stellar 150
please visit
www.stellar150.com

Stellar 150 features

