

RESMED

Stellar™ 150

ADULT AND PAEDIATRIC VENTILATOR

Easy access to intelligent therapy

With
iVAPS and
new **Remote
Alarm**



Adult use



Paediatric use



iVAPS mode



Internal battery



Remote alarm



SpO₂



FiO₂



Respiratory Care Solutions
Making quality of care easy

Stellar 150: easy access to intelligent therapy

From hospital care to homecare, invasive to noninvasive applications, paediatric to adult use ... ResMed's Stellar 150 ventilator offers intelligent ventilation in one easy, accessible device.

Light, small and quiet, Stellar 150 combines simplicity with unique new features, such as ResMed's iVAPS technology and a remote alarm.

From set-up to therapy management and monitoring, Stellar 150 is the easiest way to establish confidence among clinical staff and carers.

More in one

NEW! Extra assurance with remote alarm: Stellar 150's louder fixed and adjustable alarms have just been complemented by a new Remote Alarm which means that it is now even more suited to environments such as the hospital or for patients who need closer monitoring at home.

Mobility and portability: equipping patients for therapy on the move with an internal battery¹, an optional external battery² (the ResMed Power Station II) and the purpose-built Mobility bag to carry and protect the ventilator and accessories. The bag allows access to the Stellar user interface.

Integrated or external humidification options: the H4i™ Heated Humidifier for Stellar completely integrates with the ventilator if required. HumiCare D900 works as an external active heated humidification option when consistent humidification in changing conditions is essential.

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

Advanced technology

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

Removable, replaceable air path: for easier and quicker device cleaning and servicing, minimising any down-time.

Vsync and TiControl™: proven ResMed noninvasive ventilation (NIV) technologies work together to improve ventilation, disease management, patient comfort and sleep quality. Therapy acceptance improves because the patient's breathing is more 'in sync' with their device.

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



iVAPS* (intelligent Volume-Assured Pressure Support)

Intelligent: alveolar ventilation and an intelligent Back-up Rate (iBR) for efficacy, synchrony and comfort

- Intelligently targets alveolar ventilation, accounting for anatomical dead space to ventilate the patient more effectively
- Provides an iBR when required, to help maintain or restore synchrony during or after events such as coughing and sighing

Personalised: the Learn Targets feature for easy and individualised set-up

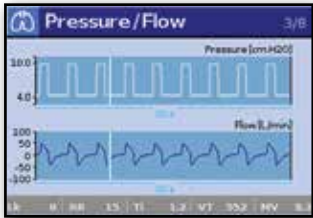
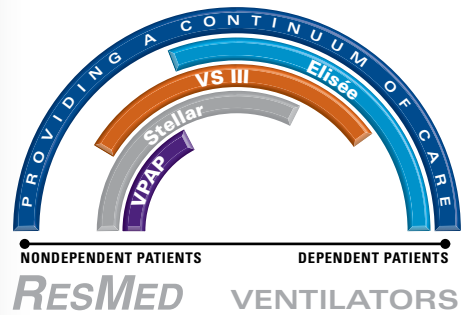
- Learns the patient's alveolar ventilation and sets targets accordingly
- Learns the patient's spontaneous respiratory rate and uses this as input for the iBR
- Minimises the need for constant manual adjustment, while enabling clinicians to review and accept or change recommended target settings

Automatic: adaptable pressure support and an iBR for the patient's changing ventilation needs

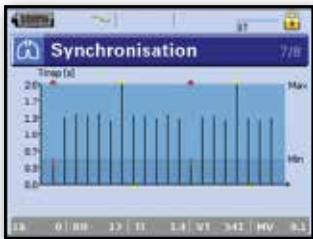
- Automatically adjusts the pressure support to achieve and maintain the target alveolar ventilation; constantly monitors the patient's actual ventilation in relation to the target ventilation
- Automatically determines when an iBR is required; constantly monitors the patient's actual respiratory rate in relation to the target rate
- Adapts to the patient's changing needs, such as during different stages of sleep

* iVAPS mode is for patients 30 kg and above.

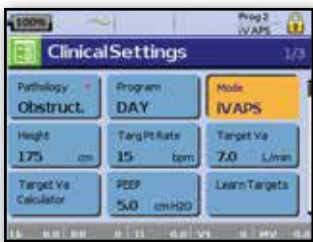




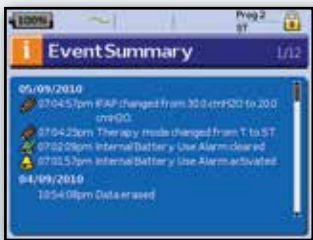
Live comprehensive monitoring information at your fingertips



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



iVAPS mode targets alveolar ventilation and the patient's respiratory rate for efficacy, synchrony and comfort



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

Optimal accuracy and synchrony

Learn Circuit: at the push of a button the device initiates this inbuilt test to measure and compensate for changes in circuit impedance (caused by the use of anti-bacterial filters, humidifiers and other accessories).

Pathology Defaults: a choice of disease-specific preset values, based on commonly-used clinical values for obstructive, restrictive, obesity hypoventilation and normal lung mechanics. Advanced settings are optimised so medical staff can focus on fine-tuning primary settings for each patient.

Mask selection and fitting: selecting the correct mask in the user menu enables the device to compensate for differences in mask vent flow and impedance. This optimises patient comfort and patient-ventilator synchrony. The Mask Fit feature delivers flow before therapy begins, to test for excessive mask leak; it helps achieve the best fit for the patient without over-tightening the mask.

Data and monitoring

Real-time monitoring on the LCD: the *Monitoring Menu* provides essential data, including simultaneously-viewed flow and pressure curves, the Ti-bar graph to fine-tune ventilation, and SpO₂ and FiO₂ monitoring.

Real-time remote monitoring: EasyCare Tx software connects to Stellar 150 via the Tx Link, offering real-time remote titration, where settings can be changed remotely.

Summary data and reminders on the LCD: the *Info Menu* provides a snapshot of therapy information for seven sessions at a time, with easy scrolling for up to 365 sessions. It also provides patient reminders like filter and mask replacements.

Downloadable data: the device stores usage and summary data for up to 365 treatment sessions and seven days of high-resolution, breath-by-breath data (including SpO₂ and FiO₂); this can be downloaded via USB or cable, using ResScan™ software.



Stellar 150 system and accessories—ordering information



| | |
|--|--|
| | Stellar 150 |
| | H4i Heated Humidifier for Stellar |
| | HumiCare D900 |
| | 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 |
| | ResMed Power Station II Battery and bag 24921 DC cable 24959 Power supply 90W |
| | 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 H₂O
EPAP: 2–25 cm H₂O

TiCONTROL

Ti Max 0.1–4 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 FiO₂
Low FiO₂
Low SpO₂
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 H₂O, IPAP 15 cm H₂O 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

