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Stellar 150 system and accessories—ordering information

Stellar 150	UK **24145** ANZ and APAC **24147**
H4i Heated Humidifier for Stellar	UK **24929** ANZ **26951** APAC **24930**
SlimLine™ tube	**36810**
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)	**24955**
FiO$_2$ monitoring sensor	**CAP008617**
ResMed Power Station II	Battery and bag **24921** DC cable **24959** Power supply 90W UK **36822** ANZ and APAC **36824**
ResMed leak port	**24976**

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 0.1–4 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 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.RPSII.com 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

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Stellar™ 150

ADULT AND PAEDIATRIC VENTILATOR

Easy access to intelligent therapy

Adult use

Paediatric use

iVAPS mode

Internal battery

USB

SpO$_2$

FiO$_2$

Respiratory Care Solutions
Making quality of care easy

PROVIDING A CONTINUUM OF CARE

VS III
Elisée
Stellar
VPAP

NONDEPENDENT PATIENTS   DEPENDENT PATIENTS

ResMed VENTILATORS

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, as well as established features.

From set-up to therapy management and monitoring, it's the easiest way to establish confidence among clinical staff and carers.

More in one

Versatile and customisable: two programs can be preset by the clinician for flexibility and convenience.

Mobility and portability: equipping patients for therapy on the move with an internal battery[1], an optional external battery[2] (the ResMed Power Station II) and the purpose-built Mobility bag; protecting the ventilator and accessories, the bag allow access to the Stellar user interface.

Comprehensive range of alarms: user adjustable alarms and non-adjustable, fixed alarms for patient safety.

Integrated humidification: the H4i™ Heated Humidifier for Stellar completely integrates with the ventilator if required.

High oxygen delivery: the device can use up to 30 L/min of oxygen, so a high FiO_2 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 H_2O, IPAP 15 cm H_2O, 20 bpm
2 Eight hours capacity per battery at EPAP 5 cm H_2O, IPAP 15 cm H_2O, 20 bpm

iVAPS

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
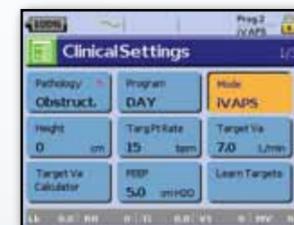
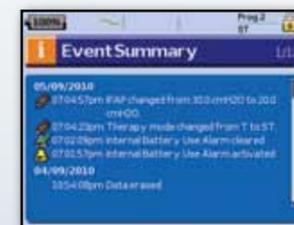* iVAPS mode is for patients 30 kg and above.
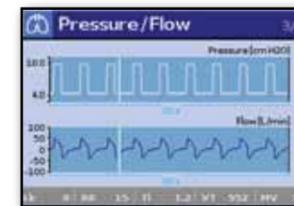
Live comprehensive monitoring information at your fingertips
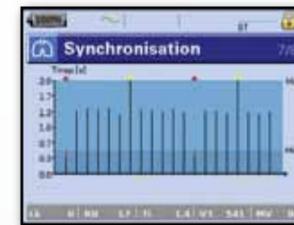
The Synchronisation screen displays spontaneous verses machine-triggered/ cycled breaths

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

The Events 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 and normal lung mechanics, and obesity hypoventilation. 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 SpO_2 and FiO_2 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 SpO_2 and FiO_2); this can be downloaded via USB or cable, using ResScan™ software.