

**ResMed**

**Stellar™ series**

Non-invasive/invasive ventilators



Stellar series:  
the versatile choice

# Delivering optimal therapy

## IntelligentAir

Providing the modes you'd expect to see for excellent positive pressure ventilation, Stellar also includes the auto-adjusting, volume-assured mode, iVAPS, with an intelligent Backup Rate, and optional AutoEPAP feature – delivering what we call IntelligentAir.\*\*

IntelligentAir continuously monitors and automatically adjusts to deliver personalised therapy to patients with changing ventilatory needs.



### intelligent Volume-Assured Pressure Support (iVAPS)

Targets each patient's alveolar ventilation.

Evidence from a recent study<sup>1</sup> conducted on naive patients indicates that when treated with iVAPS, they adhered to therapy for 60 minutes longer (per session) than when treated with standard pressure support (PS) modes.



### intelligent Backup Rate (iBR)

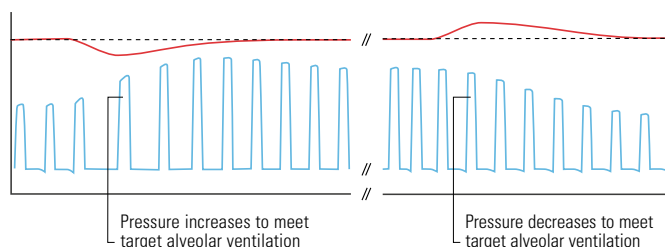
Provides backup breaths only when needed to give patients a chance to spontaneously trigger the ventilator.



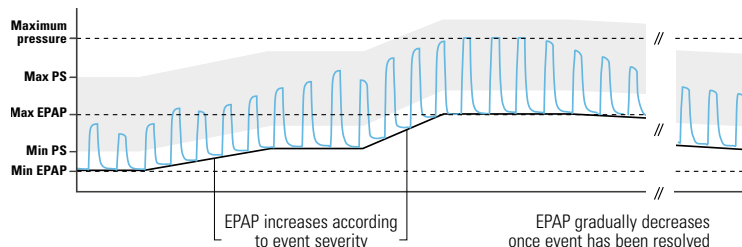
### AutoEPAP

Auto-adjusts the expiratory pressure in response to partial and full upper airway obstructions.

## iVAPS



## AutoEPAP



— Pressure    - - - Target alveolar ventilation    — Actual alveolar ventilation    // Time lapse

## Flexible therapy options

**Integrated oxygen:** up to 30 L/min.

**High pressure delivery:** up to 40 cm H<sub>2</sub>O at the mask.

**Extensive alarms:** including FiO<sub>2</sub> and SpO<sub>2</sub> to provide added assurance for 'at risk' patients.

**Pass-over humidification:** heated humidification with the H4i™.

**Dual programs:** set and save up to two programs per patient for day/night ventilation or rest/active periods. The programs now also store any previous Learn Circuit values, so you don't have to manually re-learn the circuit.

**Personalised efficacy and comfort:** the following features enable you to easily fine-tune settings on a patient-to-patient basis.



Vsync



TiControl



5 Trigger



Rise and fall times



Ramp



Ramp Down

## Designed for versatility

Stellar is ResMed's premium non-invasive ventilator series (with invasive capabilities) for non-dependent patients with changing ventilatory needs or progressive respiratory conditions, including chronic obstructive pulmonary disease (COPD), neuromuscular disease (NMD) or obesity hypoventilation syndrome (OHS).

Easy to set up and use, Stellar carefully strikes a balance between providing you with pre-programmed settings that make your job easier, and the opportunity to fine-tune settings when needed to suit each individual patient – a versatile system with its end-users in mind.

Designed for mobility and portability, Stellar ventilator is ideal for young children (13 kg+) and adults with mobility needs, and is ideally positioned to rehabilitate patients in hospital while aiding their transition to therapy at home and beyond.



Hospital



Home



Non-invasive



Invasive



Adult



Paediatric



Mobility

## Connected care, better insight

Versatile in every care environment, Stellar features cellular connectivity through ResMed Connectivity Module. This enables you to transmit therapy data straight from your patients' homes to AirView™, ResMed's securely-hosted, cloud-based patient management system for remote monitoring.

With secure access to daily online updates via AirView or AirView Exchange\*, you can remotely view therapy reports and monitor trends as required without the need for manual downloads. You can perform timely interventions and feel well prepared for visits to home-based patients.





## Meeting the demands in any fast-paced hospital

Stellar 100 and Stellar 150 are packed with technologies to deliver a versatile ventilation solution, but not at the expense of easy setup and use. Taking into consideration the busy hospital environment and typical workflows, Stellar's intuitive menus simplify the setup process, while its real-time data display makes monitoring quick and always available.

### Continuous monitoring at-a-glance

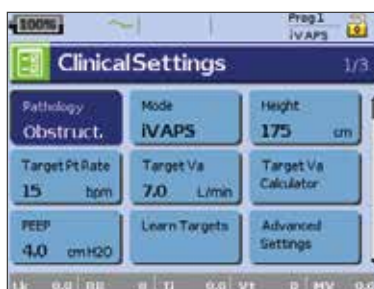
Stellar's large colour LCD screen displays essential data (such as pressure and flow curves, leak, tidal volume, SpO<sub>2</sub> and FiO<sub>2</sub>) in real-time. And for even greater insight, high-resolution (25 Hz) flow and pressure data is also available via the ResScan™ patient management software.

Access critical setup options quickly and easily



Critical setup options like Learn Circuit and Mask Type are now also displayed on the first clinical menu screen you see, so you can access important settings immediately.

Choose optimised settings using Pathology Defaults



A number of values are pre-set and organised by disease category to help facilitate therapy initiation. By optimising settings per condition, staff are given an accurate starting point, from which they can quickly fine-tune (if necessary) to suit the individual patient's specific needs.



## Transitioning home and staying mobile

Stellar has been thoughtfully engineered to not only streamline patient setup, but also streamline a patient's transition to NIV therapy at home. Stellar doesn't only provide for patients' respiratory needs, but also helps them achieve lifestyle goals. Small, lightweight and portable, Stellar is a suitable ventilator for patients to return home with, fitting in seamlessly with their lifestyle as they move about and carry on with their daily activities, adding a sense of normalcy during therapy which is especially helpful for children.

### Powered to move

Stellar gives patients who need extended ventilation the freedom to move – whether in hospital, at home or beyond.

**Two hours capacity** with an internal battery.

An **extra eight hours' capacity** with the power of one – or two – RPS II external batteries.

A DC-DC converter: plug in mobility **for use anywhere with a DC outlet**, including car.

**Custom-built mobility bag** protecting the ventilator while out and about.

Stellar DC/DC converter



Stellar mobility bag



ResMed Power Station II (RPS II)



## Stellar specifications

<b>Modes</b>	CPAP (Continuous Positive Airway Pressure) S (Spontaneous) T (Timed) ST (Spontaneous–Timed) PAC (Pressure Assisted Control) iVAPS (intelligent Volume-Assured Pressure Support) with iBR and optional AutoEPAP**
<b>Pressure range</b>	IPAP: 2–40 cm H <sub>2</sub> O EPAP: 2–25 cm H <sub>2</sub> O
<b>TiControl™</b>	Ti Max 0.3–4 sec Ti Min 0.1–Ti Max
<b>Respiratory Rate</b>	5–60 bpm
<b>Rise Time</b>	Min, 150–900 msec (approx.)
<b>Trigger and Cycle</b>	Five sensitivity settings
<b>Adjustable alarms</b>	High leak Low minute ventilation Low and high pressure Low and high respiratory rate Apnoea Low and high FiO <sub>2</sub> Low SpO <sub>2</sub> Non-vented mask
<b>Standard fixed alarms</b>	Circuit disconnected Over pressure Blocked tube Internal battery empty
<b>Data solutions</b>	ResScan AirView EasyCare Tx software and Tx Link
<b>Dimensions (LxWxH)</b>	230 x 170 x 120 mm
<b>Weight</b>	2.1 kg
<b>Air filter</b>	Electrostatic fibre mesh
<b>Air outlet</b>	22 mm taper, compatible with ISO5356–1:2004
<b>Internal battery</b>	Lithium-ion, 2 hours at EPAP 5, IPAP 15, 20 bpm
<b>Power supply</b>	AC 100–240V 50–60Hz, 2.2A AC 110V 400Hz, 2.2A DC 24V/3A
<b>IEC 60601–1 Classification</b>	Class II (double insulation) Type BF continuous operation



## Product codes

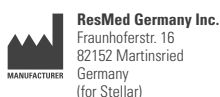
	Stellar 100	Stellar 150
UK	<b>24155</b>	<b>24145</b>

\*Through the ResMed Data Exchange you can integrate your application with AirView to exchange and use patient and device data.  
 \*\* iVAPS with AutoEPAP is only available on Stellar 150. iVAPS therapy mode is indicated for patients weighing 30 kg and above.  
 1 Kelly JL et al. Randomized trial of 'intelligent' autotitrating ventilation versus standard pressure support non-invasive ventilation: impact on adherence and physiological outcomes. *Respirology* 2014;19:596-603.

## Accessories

	H4i heated humidifier <b>24929</b>
	H4i water chamber (disposable tub) <b>26952</b>
	Stellar DC–DC converter <b>24922</b>
	Mobility bag <b>24977</b>
	ResMed Xpod LP oximeter <b>22374</b>
	Oximetry reusable sensor <b>22370</b>
	Oximetry disposable sensor <b>22380</b>
	FiO <sub>2</sub> monitoring kit <b>24955</b>
	FiO <sub>2</sub> sensor <b>CAP008617</b>
	Remote Alarm II <b>27902</b>
	2 m cable <b>27904</b>
	5 m cable <b>27905</b>
	10 m cable <b>27906</b>
	20 m cable <b>27907</b>
	ResMed Power Station II battery and bag <b>24921</b>
	DC cable <b>24959</b>
	Power supply 90W <b>36822</b>
	ResMed leak valve <b>24988</b>
	ResMed standard trolley <b>24905</b>
	ResMed Connectivity Module <b>27202</b>

See the ventilation accessories catalogue for the full suite of ResMed accessories.



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