











Stellar 100 system and accessories—ordering information

The following accessories may be purchased separately:

	Stellar 100 (APAC) 24164
	H4i Heated humidifier* for Stellar 24930 (APAC)
	SlimLine™ tube* 36810
	Mobility bag 24977
	Pulse oximeter 22305 (Oximeter cable) 16936 (1 sensor and 25 tapes)
	FiO2 monitoring kit (does not include FiO2 monitoring sensor) 24955
	FiO2 monitoring sensor CAP008617
	ResMed Power Station II* 24921 (Battery and bag) 24959 (DC cable) 36822 (Power supply 90W)
	ResMed leak valve 24988
	Remote Alarm II* (without cables) ROW 27902 27904 (RA II cable 2 m) 27905 (RA II cable 5 m) 27906 (RA II cable 10 m) 27907 (RA II cable 20 m) 27912 (Hospital Alarm System cable 30 m)

STELLAR 100 TECHNICAL SPECIFICATIONS

Modes

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 User 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

STELLAR 100 TECHNICAL SPECIFICATIONS (CONT)

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 TECHNICAL SPECIFICATIONS

Battery technology

Lithium-ion

Recharge time

4 hours from fully empty to fully charged

Battery duration

8 hours per battery in PAC mode at EPAP 5 cm H₂O, IPAP 15 cm H₂O and 20 bpm (two batteries can be connected simultaneously)

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 100
please visit
www.stellar100.com

Stellar 100 features



ResMed Germany Inc.
Fraunhoferstr. 16 82152 Martinsried Germany. (For Stellar.)
ResMed Pty Ltd* 1 Elizabeth Macarthur Drive Bella
Vista NSW 2153 Australia.

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Stellar™ 100

ADULT AND PAEDIATRIC VENTILATOR

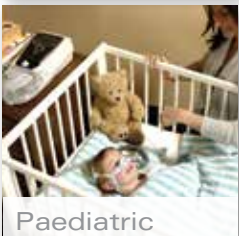
Easy access to quality therapy



Now with
Remote Alarm
Connectivity



Adult



Paediatric



Intuitive interface



Internal battery



Remote alarm



SpO₂



FiO₂

Respiratory Care Solutions
Making quality of care easy

Stellar 100: easy access to quality therapy

From hospital care to homecare, invasive to noninvasive, paediatric to adult ... ResMed's Stellar 100 ventilator offers high quality ventilation in one easy, accessible device.

Light, small and quiet, Stellar 100 offers an excellent solution for the healthcare professional and a practical and comfortable solution for your patients.

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

More in one

NEW! Extra assurance with remote alarm: Stellar 100's louder fixed and adjustable alarms are now complemented by a new Remote Alarm, so it is even more suited to hospital and care facilities or patients who need closer monitoring at home. The alarm can be extended to other areas in the home, hospital or care facility (such as the nurse's station), and can be connected to a Hospital Alarm System.

Mobility and portability: equips 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 option when consistent humidification in changing conditions is essential.

High oxygen delivery: the device can use up to 30 L/min 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.

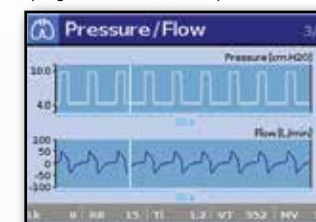
Removable, replaceable air path: for easier and quicker device cleaning and servicing, minimising any down-time.

Vsync and TiControl™: proven technologies work together providing control and flexibility to improve ventilation, comfort and sleep; these unique features offer better disease management, increased patient comfort and therapy acceptance as 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



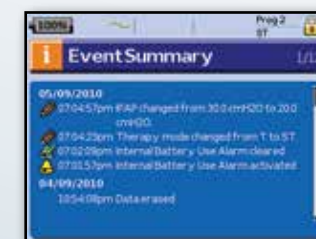
Clinical settings made easier with Pathology Defaults and multiple programs which can be preset



Live comprehensive monitoring information at your fingertips



Synchronisation screen displaying spontaneous verses machine triggered/cycled breaths



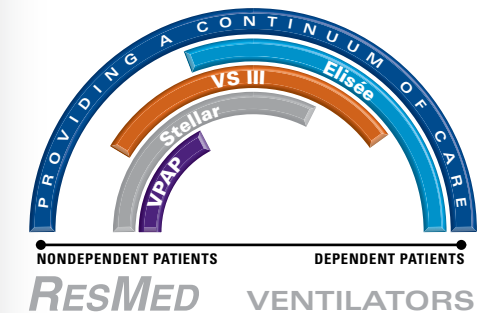
Events Summary screen provides a quick overview of the main events, such as setting changes and alarms

Optimal setup

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 100 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.

