

# RESMED

## Stellar™ 100

ADULT AND PAEDIATRIC VENTILATOR

*Easy access to quality therapy*



Adult



Paediatric



Intuitive interface



Internal battery



USB



SpO<sub>2</sub>



FiO<sub>2</sub>

ResMed Ventilation 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 combines unique new features with established features and simplicity in all aspects.

From setup 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 customisable programs for extra flexibility; these can be preset by the clinician for the patient to select as required.

**Mobility and portability**—internal battery (2 hours capacity\*), an optional external battery (the ResMed Power Station II, 8 hours capacity\*\*); the purpose built Mobility bag protects the ventilator and accessories, allowing access to the Stellar user interface even when on the move.

**Comprehensive range of alarms**—includes user adjustable alarms and essential non-adjustable, fixed alarms for patient safety.

**Integrated humidification**—the H4i™ Heated Humidifier completely integrates with the ventilator to deliver humidification if required.

**High oxygen delivery**—since the device can use up to 30 L/min of oxygen, a high  $FiO_2$  can be reached.

## Advanced technology

**Low-inertia blower**—ResMed's unique blower, including the low-inertia motor and impeller, delivers higher performance than a conventional motor, in a more compact size and more quietly.

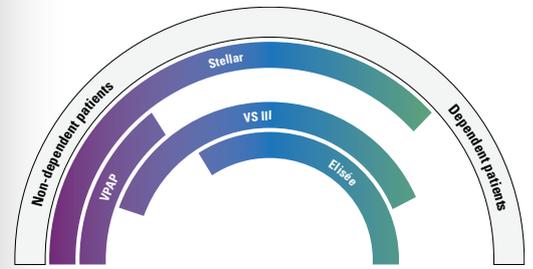
**Removable, replaceable air path**—makes it easier and quicker to clean and service the device, minimising any device down-time.

**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, the patient's breathing being more 'in sync' with their device.

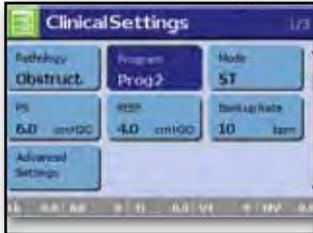
\* 2 hours at EPAP 5, IPAP 15, 20 bpm

\*\* 8 hours per battery in PAC (Pressure Assisted Control) mode at EPAP 5 cm  $H_2O$ , IPAP 15 cm  $H_2O$  and 20 bpm

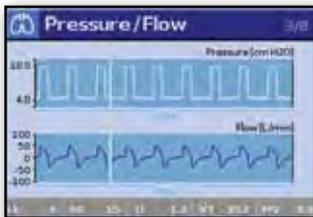




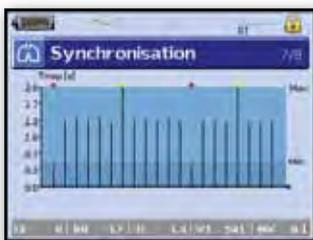
ResMed ventilators—providing a continuum of care



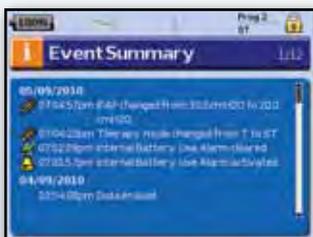
Clinical Settings made easier with Pathology Defaults and multiple programs that can be preset



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 uses 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 (for obstructive, restrictive, normal lung mechanics and obesity hypoventilation) based on commonly used clinical values. This unique feature optimises advanced settings so medical staff can focus on fine-tuning the 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-ventilator synchrony and patient comfort. 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 LCD**—the device screen provides essential information in a friendly format via the *Monitoring Menu*. This includes simultaneously viewed flow and pressure curves, the Ti-bar graph to fine-tune ventilation, and SpO<sub>2</sub> and FiO<sub>2</sub> monitoring.

**Real-time remote monitoring**—EasyCare Tx software connects to Stellar 100 via the Tx Link, offering user-friendly remote control of the therapy device; information is displayed and settings can be changed in real time.

**Summary data and Reminders on 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, such as filter and mask replacements.

**Downloadable data**—usage and summary data for up to 365 treatment sessions and seven days of high resolution, breath-by-breath data (including SpO<sub>2</sub> and FiO<sub>2</sub>) are stored in the device; data can be downloaded via USB or cable, using the ResScan™ data management PC application.



## Stellar 100 system and accessories—ordering information

The following accessories may be purchased separately:

	Stellar 100 24156 (APAC)
	H4i Heated humidifier for Stellar 24930 (APAC) 26951 (ANZ)
	SlimLine™ tube 36810
	Mobility bag 24977
	Pulse oximeter 22305 (Oximeter cable) 16936 (1 sensor and 25 tapes)
	FiO <sub>2</sub> monitoring kit (does not include FiO <sub>2</sub> monitoring sensor) 24955
	FiO <sub>2</sub> monitoring sensor CAP008617
	ResMed Power Station II 24921 (Battery and bag) 24959 (DC cable) 36822 (UK Power supply 90W) 36824 (ANZ Power supply 90W)
	ResMed leak port 24976

### 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 H<sub>2</sub>O  
EPAP: 2–25 cm H<sub>2</sub>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<sub>2</sub>  
Low FiO<sub>2</sub>  
Low SpO<sub>2</sub>  
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 H<sub>2</sub>O, IPAP 15 cm H<sub>2</sub>O 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 100–240V, 50–60Hz, 1.0–1.5A  
Nominal for aircraft use 110V, 400Hz

**For more information  
on Stellar 100,  
please visit  
[www.stellar100.com](http://www.stellar100.com)**

## Stellar 100 features

