

# RESMED

## Stellar™ 150

ADULT AND PEDIATRIC VENTILATOR

*Easy access to intelligent therapy*



- Internal battery
- Integrated humidifier
- Two customisable programs
- Pathology Defaults
- iVAPS (servo controlled ventilation mode)
- Pressure up to 40cm H<sub>2</sub>O at the mask
- Vsync™ and TiControl™
- O<sub>2</sub> up to 30 l/min with FiO<sub>2</sub> monitoring
- SpO<sub>2</sub> monitoring

ResMed Ventilation Solutions  
Making quality of care easy

# Stellar 150: easy access to intelligent therapy

From hospital care to homecare, invasive to non-invasive, pediatric to adult... Stellar 150 servo ventilator from ResMed offers flexible solutions and high quality ventilation in an easy, accessible device. Light, small and quiet, Stellar 150 combines unique new features with established features.

## Easy in every way

Stellar 150 offers simplicity in all aspects. From set-up to therapy management and monitoring, it's the easiest way to establish confidence amongst clinical staff and carers. A range of user-friendly features includes a simple interface, intuitive menus, and easy navigation. The Pathology Defaults offers a clear choice of disease-specific preset parameters to facilitate therapy initiation.

## Mobility and portability

The Stellar 150 comes with an internal battery (2 hours capacity\*) as well as an optional external battery (8 hours capacity \*\*)—the ResMed Power Station II allowing a seamless transfer when patients and device are on the move.

## Versatile and customisable

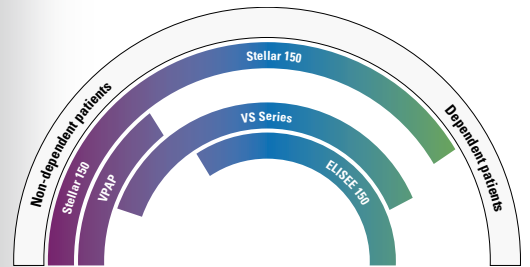
Stellar 150 can deliver non-invasive or invasive ventilation for adult and pediatric patients, in the home and hospital environment. For extra flexibility in therapy, Stellar 150 offers two customisable programs, which can be preset, enabling the patient to select the right therapy at the right time. This versatile ventilator also makes Stellar 150 suitable for patients with progressive or changing conditions.

## iVAPS (intelligent Volume Assured Pressure Support) with Learn Targets

Stellar 150's unique iVAPS mode targets Alveolar Minute Ventilation to guarantee the patient is effectively ventilated throughout their therapy. This is reassuring for patients whose need for ventilatory support varies during different times of the day and night and for patients whose disease state may change, such as those with chronic obstructive pulmonary disease (COPD) or neuromuscular disease (NMD).

- **Responds quickly to the patient's changing ventilatory needs**—iVAPS quickly and automatically adjusts pressure support to deliver the volume needed to effectively ventilate the patient
- **Targets and maintains alveolar ventilation**—by accounting for dead space, iVAPS targets alveolar ventilation, achieving and maintaining more efficient gas exchange
- **Easily learns the patient's spontaneous breathing rate and alveolar ventilation**—Learn Targets determines these while the patient is awake and stable; the device then uses these targets to automatically achieve optimum ventilation.





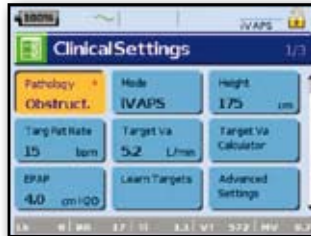
Ventilators—providing a continuum of care

## Pathology Defaults—a focused approach to pathology default settings

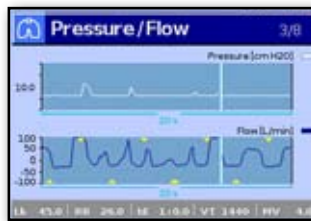
The Pathology Defaults offers a choice of disease-specific preset values (obstructive, restrictive, normal, obesity hypoventilation), based on commonly used clinical values. The Pathology Defaults feature helps achieve an important goal—advanced settings are optimised to allow medical staff to focus on and fine tune the pressure settings required for each individual patient. .

## Better patient assessment through easy onscreen monitoring

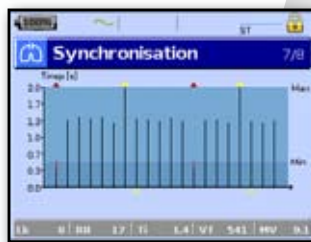
- Flow and pressure curves: can be viewed simultaneously
- Ti bar graph: convenient monitoring of ventilator-patient synchronisation to allow fine-tuning of ventilation to patients' needs and to assess patient dependency on the device
- SpO<sub>2</sub> and FiO<sub>2</sub> monitoring: Oxygen saturation and inspired fraction of oxygen can both be reliably measured. Since the device is able to use 30 l/min of oxygen a high percentage of FiO<sub>2</sub> can be reached



Clinical settings made easier with Pathology Defaults, iVAPS and Learn Targets



Comprehensive monitoring information live at your fingertips



Synchronisation screen displaying spontaneous verses machine triggered/cycled breaths



Adjustable alarms screen

## Comprehensive data storage and downloads

- Information storage on the device (USB)— stores usage and summary data for up to 365 treatment sessions and 7 days of high resolution detailed data including SpO<sub>2</sub> and FiO<sub>2</sub> data
- Easy access to data—stored data can be accessed in the summary menu or using the data management PC application. (Stellar 150 is compatible with ResScan™ software)
- USB communication ports—data can be easily transferred to and from the ventilator, and between different Stellar 150 ventilators





## Comprehensive range of alarms

- User adjustable alarms —easy to set, switch on or off
- Essential non adjustable, fixed alarms for patient safety



## Stellar 150 system and accessories

The following accessories may be purchased separately:

	Humidifier H4i for Stellar 150 24928
	SlimLine tube 36810
	Mobility bag 24977
	Pulse oximeter— including finger pulse sensor and fixation clip 16936
	FiO <sub>2</sub> monitoring kit (does not include Oxygen sensor) 24955
	Oxygen sensor CAP008617
	ResMed Power Station II 24921 (Battery and bag) 24959 (DC cable) 36822 (Power supply 90W)
	ResMed leak port 24976

### STELLAR 150 TECHNICAL SPECIFICATIONS

#### Modes

S/T (Spontaneous/Timed)  
PAC (Pressure Assisted Control)  
iVAPS (Intelligent Volume Assured Pressure Support)  
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

#### Trigger and Cycle

Five sensitivity settings

#### Adjustable alarms

High Leak: ON–OFF  
Low MV: OFF, 2–30 L/min  
High Pressure: OFF, 4–45 cmH<sub>2</sub>O  
Low Pressure: OFF, -2 to -10 cm H<sub>2</sub>O  
High Respiratory Rate: OFF, 5–60 bpm  
Low Respiratory Rate: OFF, 5–30 bpm  
Apnea: OFF, 10–60 sec  
High FiO<sub>2</sub>: OFF, 30–100%  
Low FiO<sub>2</sub>: OFF, 18–80%  
Low SpO<sub>2</sub>: 70–95%  
Non-vented mask ON-OFF

#### Standard fixed alarms

Circuit disconnected  
Over pressure  
Blocked tube  
Internal battery empty  
(See User Guide for full list of alarms)

#### Dimensions (Lx W x H)

230mm x 170mm x 120mm

#### Weight

2.1 Kg

### STELLAR 150 TECHNICAL SPECIFICATIONS (CONT)

#### 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 12–24V, 7A

#### IEC 60601–1 Classification

Class II (double insulation)  
Type BF  
Continuous operation

### RESMED POWERSTATION II TECHNICAL SPECIFICATIONS

#### Battery technology:

Lithium-ion

#### Recharge time:

4 hours from fully empty to fully charged

#### Battery duration: \*\*

8 hours per battery in PACV mode at EPAP 5 cm H<sub>2</sub>O, IPAP 20 cm H<sub>2</sub>O and 15 bpm (two batteries can be connected simultaneously)

#### Capacity:

<100 Wh

#### Dimensions (LxWxH):

230 x 126 x 26 mm (9.06 x 4.96 x 1.02 in)

#### Battery weight:

1.5 kg (3.31 lb)

#### Power supply:

Input range 100–240 V, 50–60 Hz, 1.0–1.5 A  
Nominal for aircraft use 110 V, 400 Hz

### PRODUCT CODES

Stellar 150 UK

24145

For more information on Stellar 150 please visit [www.stellar150.com](http://www.stellar150.com)

