

BIPAP - 3150

Non-Invasive Ventilator



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Analytical Technologies Limited

An ISO 9001 Certified Company

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►► **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 and a remote alarm.

From set-up to therapy management and monitoring, Stellar 150 is the easiest way to establish confidence among clinical staff and carers.

More in one

NEW! Extra assurance with remote alarm:

Stellar 150's louder fixed and adjustable alarms have just been complemented by a new Remote Alarm which means that it is now even more suited to environments such as the hospital or for patients who need closer monitoring at home.

Mobility and portability:

equipping 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 humidification option when consistent humidification in changing conditions is essential.

High oxygen delivery:

the device can use up to 30 L/min³ 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 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 H₂O, IPAP 15 cm H₂O, 20 bpm
- 2 Eight hours capacity per battery at EPAP 5 cm H₂O, IPAP 15 cm H₂O, 20 bpm
- 3 iVAPS can only be used with 4 L/min of O₂

►► **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:

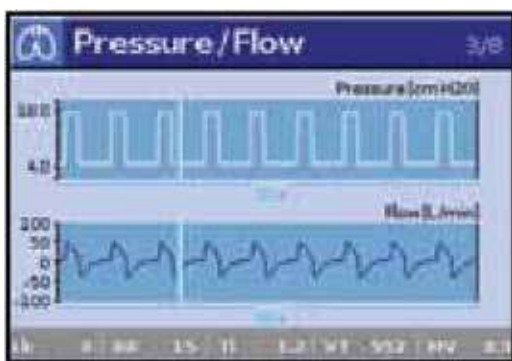
the Learn Targets feature for easy and individualised set-up

- 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

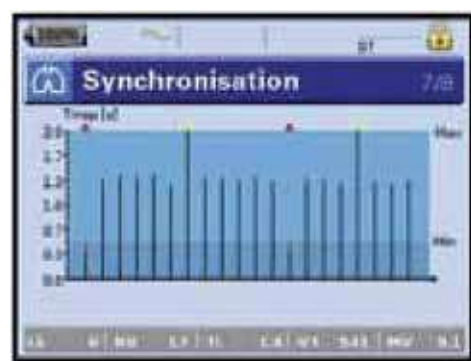
Automatic:

adaptable pressure support and an iBR for the patient's changing ventilation needs

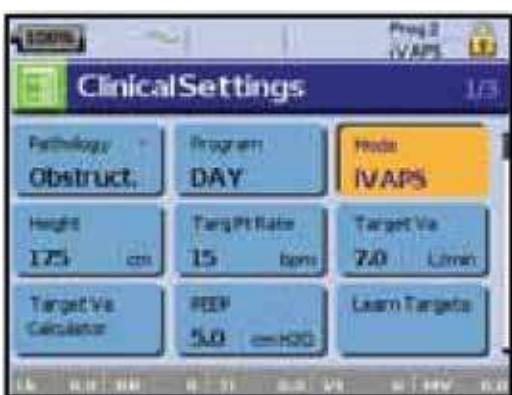
- Automatically adjusts the pressure support to achieve and maintain the target alveolar ventilation; constantly monitors the patient's actual ventilation in relation to the target ventilation
- Automatically determines when an iBR is required; constantly monitors the patient's actual respiratory rate in relation to the target rate
- Adapts to the patient's changing needs, such as during different stages of sleep



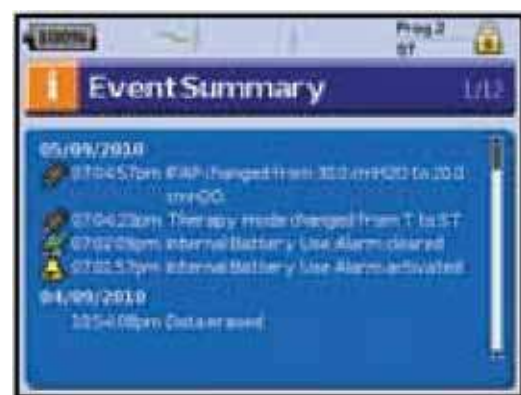
Live comprehensive monitoring information at your fingertips



The Synchronisation screen displays spontaneous versus machine-triggered/cycled breaths



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



The Event 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, 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 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 SpO₂ and FiO₂); this can be downloaded via USB or cable, using software.



Stellar 150
ANZ and APAC 24162



H4i Heated Humidifier
for Stellar
ANZ 26951
APAC 24930



HumiCare D900
18405



Mobility bag
24977



Pulse oximeter
22305 (Oximeter cable)
16936 (1 sensor and
25 tapes)



FiO₂ monitoring kit
(does not include FiO₂
monitoring sensor
CAP008617) 24955



Remote Alarm II
(does not include cables)
ROW 27902



ResMed Power Station II
Battery and bag 24921
DC cable 24959
Power supply 90W
ANZ and APAC 36824



ResMed leak valve
24988

►► 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 0.3–4 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	High Leak
ALARMS	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	Circuit disconnected
ALARMS	Over pressure Blocked tube Internal battery empty (See Clinical Guide for full list of alarms)

DIMENSIONS

(I 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

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 Class II (double insulation)

CLASSIFICATION 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 H₂O, IPAP
15 cm H₂O and 20 bpm (two batteries can be con
nected simultaneously.

CAPACITY <100 Wh

DIMENSIONS 230 x 126 x 26 mm

(L x W x H)

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

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

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