Stellar specifications

**Modes**
- iVAPS (intelligent Volume-Assured Pressure Support) with AutoEPAP*
- ST (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 alarms: High Leak, Low Minute Ventilation, Low and High Pressure, Low and High Respiratory Rate, Apnoea, Low and High FiO2, Low SpO\(_2\)

**Product codes**

<table>
<thead>
<tr>
<th>Product</th>
<th>Stellar 100</th>
<th>Stellar 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>ResMed Pac</td>
<td>001507</td>
<td>001508</td>
</tr>
<tr>
<td>ResMed Pac Group 2</td>
<td>001528</td>
<td>001529</td>
</tr>
</tbody>
</table>

**Stellar accessories**

- **iVAPS with AutoEPAP** is only available on Stellar 150
- **H4i Heated Humidifier**
  - 24930
- **H4i water chamber (disposable tub)**
  - 26952
- **See the ventilation accessories catalogue for the full suite of ResMed accessories.**

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

Easy to set up and use, Stellar carefully balances a tolerance 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.

**Stellar series: the versatile choice**

**Stellar series**

Non-invasive/invasive ventilators

**Stellar, HumiCare D900**


- CounterStream, H4i, HumiCare, ResScan, Stellar and TiControl are trademarks and/or registered trademarks of the ResMed family of companies. For patent information, see ResMed.com/ip.

- Specifications may change without notice. Product availability may vary across regions.

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Stellar has been thoughtfully engineered to not only streamline patient setup, but also streamline a patient’s transition to NIV therapy at home. 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.

Powered to move
Stellar has been thoughtfully engineered to not only streamline patient setup, but also streamline a patient’s transition to NIV therapy at home.

Meeting the demands of fast-paced hospitals
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.

Delivering optimal therapy to many types of patients
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 personalized therapy to patients with changing ventilatory needs.

Flexible therapy options
Integrated oxygen: up to 30 L/min
High pressure delivery: up to 40 cm H2O at the mask
Extensive alarms: including FiO2 and SpO2 to provide added assurance for ‘at risk’ patients
Pediatric use: for children weighing down to as little as 15 kg
Pass-over or CounterStream™ humidification: heated humidification with the H4i™ or HumiCare™ D900
Dual programs: set and save up to two programs per patient for day/night ventilation or rest/active periods
Personalized efficacy and comfort: using the following features, you can easily fine-tune settings on a patient-to-patient basis

Autobreathe: delivers spontaneous breaths if necessary
AutoEPAP: auto-adjusts the expiratory pressure in response to partial and full upper airway obstructions.
intelligent Volume-Assured Pressure Support (iVAPS): targets each patient’s alveolar ventilation.
intelligent Backup Rate (iBR): provides backup breaths only when needed to give patients a chance to spontaneously trigger the ventilator.

Continuous monitoring at-a-glance
Stellar’s large colour LCD screen displays essential data (such as pressure and flow curves, leak, tidal volume, SpO2, and FiO2) in real-time, and for even greater insight, high-resolution (25Hz) flow and pressure data is also available via the ResScan™ patient management software.

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 easily and quickly fine-tune to suit the individual patient’s specific needs.

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.

Meeting the demands of fast-paced hospitals
Stellar’s large colour LED screen displays essential data (such as pressure and flow curves, leak, tidal volumes, SpO2, and FiO2) in real-time, and for even greater insight, high-resolution (25Hz) flow and pressure data is also available via the ResScan™ patient management software.

Access critical setup options quickly and easily
Critical setup options that were previously available only through the menu now make your way onto the main screen, so you can access important settings immediately.

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**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
The power of one – or two – RPS II external batteries, each providing an extra eight hours' capacity

**Flexible therapy options**
Integrated oxygen: up to 30 L/min
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**Meeting the demands of fast-paced hospitals**
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.

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Critical setup options that were previously only available on the ventilator’s menus screen you now, so you can access necessary settings quickly.

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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 easily fine-tune to suit the individual patient’s specific needs.

**Meeting home and staying mobile**
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Powered to move

Stellar gives patients who need extended ventilation the freedom to move — whether in hospital, at home or beyond. The power of one or two RPS II external batteries, each providing an extra eight hours’ capacity, ensures you can take it anywhere with a DC outlet with the new DC-DC converter.

* iVAPS with AutoEPAP is only available on Stellar 150

Meeting the demands of fast-paced hospitals

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.

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

Power to move

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Easy to set up and use, Stellar carefully balances a multitude of well-thought-out features 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.

Stellar series: the versatile choice

Stellar specifications

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Pressure range

- IPAP: 2–40 cm H2O
- EPAP: 2–25 cm H2O

TiControl™

- Ti Max: 0.3–4 sec
- Ti Min: 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
- Low and High Pressure
- Low and High Respiratory Rate
- Apnoea
- Low and High FiO2
- Low SpO2
- Non-vented mask

Standard fixed alarms

- Circuit disconnected
- Error
- Breathe timer expiry

Temperature and Humidity

- 40° C ± 10°C
- 40% ± 10% relative humidity

Weight

- 1.0 kg

Air filter

- Disposable fibrous filter

Air outlet

- 22 mm taper, compatible with ISO5356–1:2004

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 24V/3A

IEC 60601

- Class II (double insulation)

Ty pe BF Continuous operation

ResMed DC–DC converter

- 24922

Mobility bag

- 24977

ResMed Xpod LP

- 22374

Oximeter

- 22370

Oximetry reusable sensor

- 22380

Oximetry disposable sensor

- 22379

FiO2 monitoring kit

- 24955

FiO2 sensor

- CAP008617

Remote Alarm II

- 27902
- 27904
- 27905
- 27906

ResMed Power Station II

- Battery and bag

- 24921

DC cable

- 24959

Power supply 90W

- 36824

ResMed leak valve

- 24988

ResMed standard trolley

- 25090

Stellar series: the versatile choice

Designed for versatility

Hospital

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<tr>
<th>Non-invasive</th>
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ResMed.com/Stellar

Stellar DC–DC converter

- 24932

Stellar specifications

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<tr>
<th>Accessories</th>
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</table>

ResMed HumiCare D900

- 25089

Humidifier chamber

- 25089

ResMed standard trolley

- 25090

ResMed.com/Stellar
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Stellar series
Non-invasive/invasive ventilators

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<tr>
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<tr>
<td>Accessories</td>
<td>AutoEPAP, Sensing (AutoEPAP)</td>
</tr>
<tr>
<td>Air filter</td>
<td>Electrostatic fibre mesh</td>
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<tr>
<td>Air outlet</td>
<td>22 mm taper, compatible with ISO5356–1:2004</td>
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