



Lumis™ 150

VPAP ST-A

Personalised ventilation made easy

Lumis™ 150 VPAP ST-A is a non-invasive ventilator with alarms designed for non-dependent patients with respiratory insufficiency or obstructive sleep apnoea (OSA).

Featuring ResMed's unique volume-assurance mode – iVAPS (intelligent Volume-Assured Pressure Support) – Lumis 150 VPAP ST-A maintains target alveolar ventilation to suit each patient's changing needs. And with an intelligent Backup Rate (iBR) and optional AutoEPAP, iVAPS continuously monitors ventilation and the upper airway to deliver personalised ventilation.

Easy to set up and use, Lumis 150 VPAP ST-A also features built-in wireless connectivity to AirView™ for remote patient management.





Individually responsive with IntelligentAir

IntelligentAir is a collection of ResMed technologies – iVAPS, iBR and AutoEPAP – that can tailor therapy to individual breathing needs. Automatically adapting to changes at different stages of a patient’s condition, IntelligentAir makes personalised ventilation possible.



iVAPS learns each patient’s unique alveolar ventilation, sets appropriate targets then provides smooth pressure support to suit.



intelligent Backup Rate (iBR)* gives patients maximum opportunity to trigger the ventilator. Staying out of the way until needed, iBR adds backup breaths to comfortably bring patients back to target.



AutoEPAP** maintains upper airway patency by auto-adjusting the expiratory pressure in response to partial and full obstructions. It also works to prevent events from occurring throughout the night.

You can also provide further personalisation by fine-tuning Vsync, TiControl™ and 5 Trigger on a 'per patient' basis.



Vsync provides excellent patient–ventilator synchrony, even in the presence of significant leak.



TiControl™ lets you set min and max limits on either side of the patient’s ideal inspiratory time to encourage spontaneous breathing.



5 Trigger helps you optimise settings according to the patient’s condition, using five trigger and cycle sensitivity levels.

Key features

QuickNav for low-touch therapy adjustment

By double-clicking the home button on the device, you can quickly and easily toggle between the Settings and Monitoring screens, so you can check the impact of adjustments you make on the patient’s therapy.

Climate Control Auto for automatic humidification

When used with a HumidAir™ heated humidifier and ClimateLineAir™ or ClimateLineAir Oxy heated tube, Lumis delivers humidification automatically – no settings to change, and no complicated menus to navigate.

Ramp and Ramp Down for extra comfort

Lumis offers both Ramp and Ramp Down features to help patients ease into and out of each therapy session.

AirView for remote patient management

Your patients’ therapy data can be sent securely to AirView, where you can remotely access the most recent therapy statistics and trend data. AirView’s ‘remote assist’ and ‘remote settings’ also allow for easy and efficient device management.

Alarms for monitoring and confidence

A set of fixed and adjustable alarms is also available to help you personalise therapy for your patients. Alarms that you can set are high leak, low minute ventilation, apnoea, non-vented mask and low SpO₂ (when an oximeter is connected).

Technical specifications

Modes	CPAP, S, T, ST with optional iBR, PAC, iVAPS with iBR and optional AutoEPAP
Operating pressure range	2–30 cm H ₂ O (2–30 hPa) in S, T, ST, PAC and iVAPS modes 4–20 cm H ₂ O (4–20 hPa) in CPAP mode
Sound pressure level	27 dBA with uncertainty of 2 dBA as measured according to ISO 80601-2-70:2015 (CPAP mode)
Dimensions (H x W x D)	116 mm x 205 mm x 150 mm (Device only) 116 mm x 255 mm x 150 mm (Device with HumidAir heated humidifier)
Weight	1238 g (Device only) 1336 g (Device with HumidAir heated humidifier)
90W power supply unit	Input range: 100–240V, 50–60Hz, 57VA (typical power consumption) 108VA (peak power consumption)
Operating temperature/humidity/altitude	+5°C to +35°C, 10–95% relative humidity, non-condensing/sea level to 2,591 m; air pressure range 1013 hPa to 738 hPa
Storage and transport temperature/humidity	-20°C to +60°C, 5–95% relative humidity, non-condensing
Housing construction	Flame retardant engineering thermoplastic
Supplemental oxygen	Recommended maximum flow: 15 L/min (CPAP, S, T, ST, PAC); 4 L/min (iVAPS)
Standard air filter	Polyester non-woven fibre
Tubing	SlimLine™ and ClimateLineAir (15 mm); ClimateLineAir Oxy and Standard (19 mm)
Air outlet	22 mm air outlet complies with ISO 5356-1:2004
Electromagnetic compatibility	Requirements (EMC) according to IEC60601-1-2:2014 for residential, commercial, and light industry environments
Aircraft use	ResMed confirms that the device meets the Federal Aviation Administration (FAA) requirements (RTCA/DO-160, section 21, category M) for all phases of air travel
IEC 60601-1:2006 classification	Class II (double insulation), Type BF Ingress Protection IP22

Product codes

Lumis 150 VPAP ST-A with HumidAir heated humidifier, ClimateLineAir heated tube and built-in wireless connectivity **28206**

Note: Technical specifications may change without notice. Always refer to your device user guide.
*iBR is available in iVAPS and ST modes. **AutoEPAP is available in iVAPS mode.



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