SMU

Lumis™150
VPAP ST

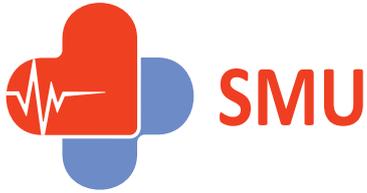| Hospital | Home | iVAPS | iBR | AutoEPAP | Ramp Down | Target Va | Learn Targets | Vsync | TiControl | 5 Trigger |

Personalised ventilation made easy

Lumis 150 VPAP ST is a noninvasive ventilator designed for non-dependent patients with respiratory insufficiency.

Featuring our unique volume-assurance mode – iVAPS (intelligent Volume-Assured Pressure Support) – Lumis 150 VPAP ST maintains target alveolar ventilation to suit each patient's changing needs. Optional AutoEPAP ensures adequate EPAP is delivered to maintain an open upper airway – automatically, while an intelligent Backup Rate (iBR) encourages spontaneous breathing.
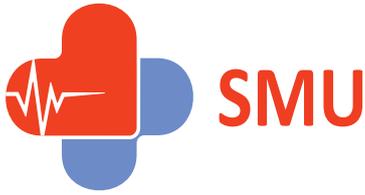
Lumis 150 VPAP ST is also easy to set up and use.

Technical specifications

Modes	CPAP, S, T, ST with optional iBR, PAC, iVAPS with iBR and optional AutoEPAP
Operating pressure range	2–25 cm H_2O (2–25 hPa) in S, T, ST, PAC and iVAPS modes 4–20 cm H_2O (4–20 hPa) in CPAP mode
Sound pressure level	26.6 dBA with uncertainty of 2 dBA as measured according to ISO 17510-1:2009 (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 humidifier)
Weight	1106 g (Device only) 1268 g (Device with HumidAir 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); Standard (19 mm)
Air outlet	22 mm air outlet complies with ISO 5356-1:2004
Electromagnetic compatibility	Requirements (EMC) according to IEC60601-1-2:2007 for residential, commercial, and light industry environments
Aircraft use	We confirms that 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

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Individually responsive with IntelligentAir

IntelligentAir is a collection of our technologies that can tailor therapy to individual breathing needs. Automatically adapting to changes during the night and 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.

iVAPS

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

iBR

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.

AutoEPAP

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

Vsync

TiControl™ lets you set min and max limits on either side of the patient's ideal inspiratory time.

TiControl

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

5 Trigger

*iBR is available in iVAPS and ST modes.   **AutoEPAP is available in iVAPS mode.

Key features

QuickNav for low-touch therapy adjustment
By simply double-clicking the home button on the device, you can quickly and easily toggle between the Settings and Monitoring screens.

Climate Control Auto for automatic humidification
When used with a HumidAir™ heated humidifier and ClimateLineAir™ heated tube, Lumis delivers humidification automatically – no settings to change and no complicated menus to navigate. So you can set your patients up to receive all the benefits of humidification as soon as they turn on their device.

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. Ramp reaches the prescribed therapy level gradually and comfortably, while Ramp Down gradually reduces the pressure support and EPAP to help ease patients off therapy.

Supported by ResScan 5.4
ResScan 5.4 supports the features of Lumis including Enabling Essentials mode which allows patients to just press Start without worrying about settings or menus. It also provides 365 days of summary data, 30 days of detailed data and 30 days of high resolution data.

Product codes
Lumis 150 VPAP ST with HumidAir heated humidifier,   **28118** ClimateLineAir heated tube.   **Note:** Technical specifications may change without notice. Always refer to your device user guide.