ResMed

Lumis™ 100

VPAP ST

iBR: Intelligent Backup Rate

Provides back up breaths intelligently

Hospital | Home | iBR | Ramp | Ramp Down | Vsync | TiControl | 5 Trigger

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Lumis™ 100 VPAP ST

The Lumis™ 100 VPAP ST device is indicated to provide non-invasive ventilation for patients weighing more than 13 kg with respiratory insufficiency or obstructive sleep apnoea (OSA). It is intended for home and hospital use.

The humidifier is intended for single patient use in the home environment and re-use in a hospital/institutional environment.

iBR: Intelligent Backup Rate

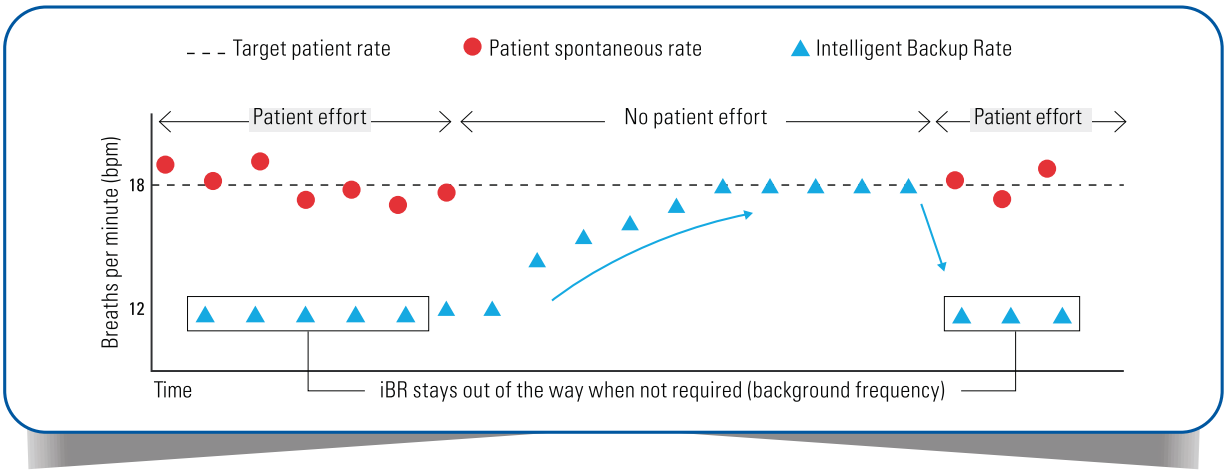
iBR is designed to enhance the conventional approach to backup breaths. It maximises your patient's opportunities for spontaneous breathing by delivering support only when it's needed and tailoring that support to meet their real needs.

What does iBR do?

Provides back up breaths intelligently: provides back up breaths within 2 boundaries : target patient rate and background frequency which is two-thirds of the target rate. iBR will provide backup breaths only if there's an apnoes or lack of effort, but won't provide unnecessary support for pauses caused by cough or sigh.

Reacts swiftly and enhances comfort: designed to safely and quickly return your patient to target rate as iBR provides minimal pressure support and best synchronization at the time of backup breaths. This improves patient's comfort and compliance.

Time saving personalisation: automatically determines the most suitable iBR for your patient based on their spontaneous stable awake rate, giving you peace of mind and ensuring your patient receives personalised ventilation.



ResMed NIV technologies

A key requirement for sucess in NIV is to improve patient comfort, compliance and treatment efficacy though excellent patient ventilator synchrony. Lumis™ 100 VPAP ST features 3 unique ResMed technologies that work together to achieve this synchrony.

Vsync

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

TiControl

Set min and max limits on either side of the patient's ideal inspiratory time.

5Trigger

Optimise settings according to the patient's condition, using five trigger and cycle sensitivity levels.

Easy-to-read, front-facing colour screen

Dedicated home button will always take you back to the top of the menu

Push-dial navigation with a single scroll menu

Intuitive and simple to navigate

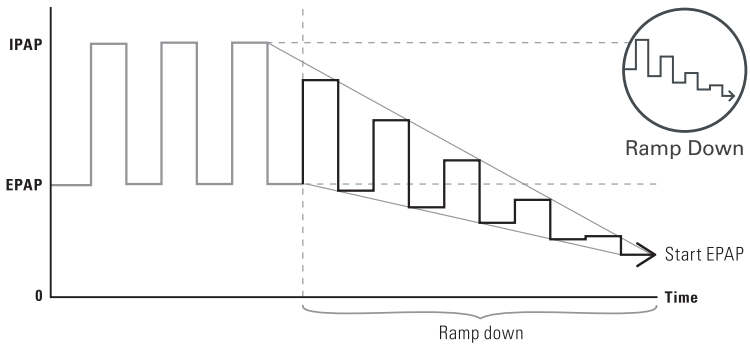
The user interface on Lumis ventilators has been designed with you and your patients in mind: it's intuitive and simple to navigate. It's easy to view and personalise patient control settlings, as well as gain valuable insight into their progress with a sleep report at the end of every session.

Automatic humidification

When used with a HumidAir™ heated humidifiers and ClimateLineAir™ heated tube, Lumis delivers automatic humidification Climate Control Auto. This mode comes pre-set with the temperature and humidity levels designed for optimal comfort, so you can set your patients up to receive all the benifits of humidification instantly- no settings to change and no complicated menus to navigate.

Customisation for comfort

For patients who need greater levels of pressure support (e.g. COPD patients), turning the ventilator off at the end of therapy can be quite abrupt. Lumis's optional Ramp Down feature gradually reduces the pressure support delivered to help ease patients into spontaneous breathing.



Lumis ramps down the pressure delivered over a 15-minute period

Reference: Lumis series clinical guide
Disclaimer: To be used under supervision of a registered medical practitioner

Product code

Lumis™100 VPAP ST
28126

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Technical specifications

Units are expressed in cm H20 and hPa.1cm H20 is equal to 0.98 hPa.

90W power supply unit	
AC input range:	100–240V, 50–60Hz 1.0–1.5A, Class II 115V, 400Hz 1.5A, Class II (nominal for aircraft use)
DC output:	24V⎓3.75A
Typical power consumption:	53W (57VA)
Peak power consumption:	104W (108VA)
Environmental conditions	
Operating temperature:	+5°C to +35°C Note : The airflow for breathing produced by this therapy device can be higher than the temperature of the room. Under extreme ambient temperature conditions (40°C) the device remains safe.
Operating humidity:	10 to 95% relative humidity, non-condensing
Operating altitude:	Sea level to 8,500' (2,591 m); air pressure range 1013 hPa to 738 hPa
Storage and transport temperature:	-20°C to +60°C
Storage and transport humidity:	5 to 95% relative humidity, non-condensing

Classification : **EN60601-1:2006/A1:2013**

Class II (double insulation), Type BF, Ingress protection IP22.

Physical - device and humidifier	
Dimensions (H x W x D):	116 mm x 255 mm x 150 mm
Air outlet (complies with ISO 5356-1:2015):	22 mm
Weight (device and cleanable humidifier):	1268 g
Housing construction:	Flame retardant engineering thermoplastic
Water capacity:	To maximum fill line 380 mL
Cleanable humidifier - material:	Injection moulded plastic, stainless steel and silicone seal
Air filter	
Standard:	Material: Polyester non woven fibre Average arrestance: >75% for ~7micron dust
Hypoallergenic:	Material: Acrylic and polypropylene fibres in a polypropylene carrier Efficiency: >98% for ~7-8 micron dust; >80% for ~0.5 micron dust
Aircraft use ResMed confirms that device meets the Federal Aviation Administration (FAA) requirements (RTCA/DO-160, section 21, category M) for all phases of air travel.	
Operating pressure range	
S, ST, T, PAC CPAP	2 to 25 cm H20 (2 to 25 hPa) 4 to 20 cm H20 (4 to 20 hPa)
Supplemental oxygen	
Maximum flow:	15 L/min (S, ST, T, PAC, CPAP)

Distributed by-

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