Individually responsive with IntelligentAir

Lumis introduces IntelligentAir: a collection of ResMed technologies – iVAPS, iBR, AutoEPAP, Vsync, TiControl™, and Trigger and cycle – 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.

intelligent Volume-Assured Pressure Support (iVAPS): maintains ventilation target*
To deliver the right volume of air for each patient's therapy needs, iVAPS intelligently learns their unique alveolar ventilation, sets appropriate targets, then provides smooth pressure support to suit.

iVAPS

intelligent Backup Rate (iBR): allows spontaneous breathing
To give patients maximum opportunity to spontaneously trigger the ventilator, iBR stays out of the way until needed. It then provides backup breaths to comfortably bring patients back to their target rate.
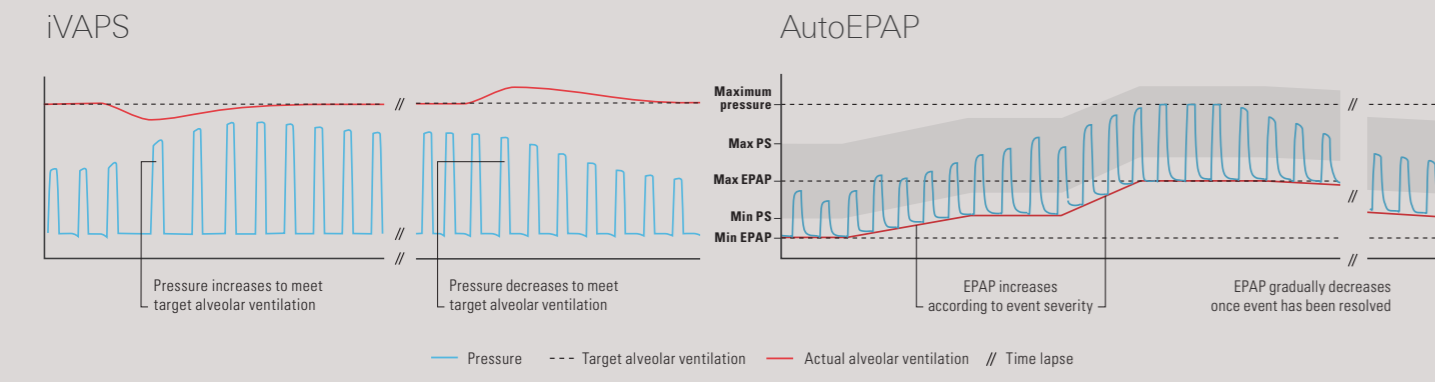
IBR is available in iVAPS and ST modes.

iBR

AutoEPAP: addresses obstructions and maintains upper airway patency
Responding according to the severity of the event, AutoEPAP auto-adjusts the expiratory pressure in response to partial and full obstructions. It also works to prevent events from occurring throughout the night.

AutoEPAP is available in iVAPS mode.

AutoEPAP

iVAPS

Pressure increases to meet target alveolar ventilation
Pressure decreases to meet target alveolar ventilation

AutoEPAP

Maximum pressure
Max PS
Max EPAP
Min PS
Min EPAP

EPAP increases according to event severity
EPAP gradually decreases once event has been resolved

— Pressure   - - - Target alveolar ventilation   — Actual alveolar ventilation   // Time lapse

iVAPS with iBR and AutoEPAP continuously monitor ventilation and the upper airway, and automatically adjust the therapy delivered to simplify titration and treat patients with challenging conditions. With major therapy parameters set, you can then easily fine-tune settings on a 'per patient' basis, so that the ventilation delivered is truly personalised for efficacy and comfort.

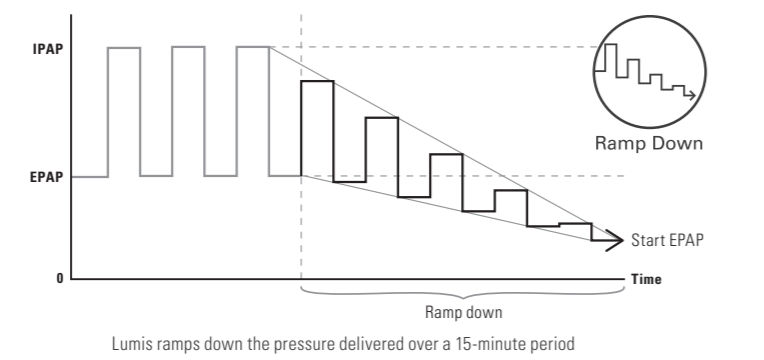Provide excellent patient–ventilator synchrony, even in the presence of significant leak.

Vsync

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

TiControl

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

5 Trigger

Further customisation for comfort

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

IPAP
EPAP
0
Ramp Down
Start EPAP
Time
Ramp down

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

* iVAPS' efficacy and tolerability have been established in nine publications across chronic obstructive pulmonary disease (COPD) and neuromuscular disease (NMD). See ResMed.com/Lumis for more details.
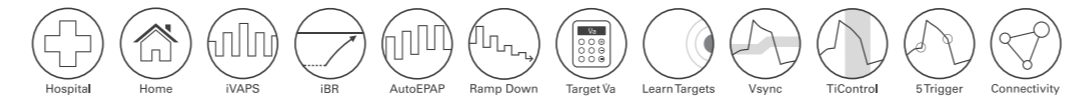

ResMed

Features

	Lumis 100 VPAP S	Lumis 150 VPAP ST
Therapy modes		
CPAP (Continuous Positive Airway Pressure)	•	•
S (Spontaneous)	•	•
T (Timed)		•
ST (Spontaneous–Timed) with optional iBR		•
PAC (Pressure Assist-Control)		•
iVAPS with optional AutoEPAP		•
Comfort and simplicity features		
Vsync	•	•
TiControl	•	•
Trigger and cycle	•	•
Ramp	•	•
Ramp Down	•	•
Climate Control Auto	•	•
Essentials mode	•	•
Data management		
Built-in wireless connectivity	•	•
AirView*	•	•
AirView's remote assist	•	•
ResScan	•	•

*AirView also supports a card-to-cloud option via the SD card.

Product codes

	Lumis 100 VPAP S	Lumis 150 VPAP ST
Device with HumidAir heated humidifier, ClimateLineAir heated tube and built-in wireless connectivity	28008	28121

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

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ResMed

Lumis™ series
Noninvasive ventilators

Further personalise each patient's therapy and streamline your inventory with compatible ResMed Air Solutions accessories.

ClimateLineAir and ClimateLineAir Oxy heated tubing

HumidAir heated humidifier cleanable tub

Oximetry module/kit

USB module

For a full list of accessories, please see the ventilation accessories catalogue.

Personalised ventilation made easy

Lumis™ is a noninvasive ventilator series designed for non-dependent patients with respiratory insufficiency.

Every Lumis device is set up to enable personalised ventilation easily, so you can use one device series to customise therapy for a range of patient conditions. Individually-responsive technologies automatically monitor and adapt throughout the night to deliver personalised therapy. And with built-in wireless connectivity, Lumis makes it easy for you to monitor your patients' progress and customise their settings remotely to continue to meet their unique therapy needs.

Personalisation simplified

Lumis's **QuickNav** feature gives you a low-touch solution to therapy adjustment.

By simply double-clicking the home button on the device, you can quickly and easily toggle between the **Settings** screen (where you can make adjustments to your patient's therapy) and the **Monitoring** screen (where you can check the impact of those adjustments on the patient's therapy). It's that easy and efficient.

Built-in simplicity

Lumis displays your patient's **SpO₂ and pulse rate*** on screen even before therapy has begun, so you can personalise the ventilator settings to suit their needs.

Lumis also offers **Essentials mode** for patients who want to receive their therapy without worrying about settings or menus. They can simply press Start and the ventilator takes care of the rest.

*When a compatible oximeter and oximeter module are attached.

Settings

Settings	
‹ Home	
Therapy	
Mode	ST
IPAP	14.0
EPAP	8.0
iBR	Off
Backup Rate	15

Monitoring

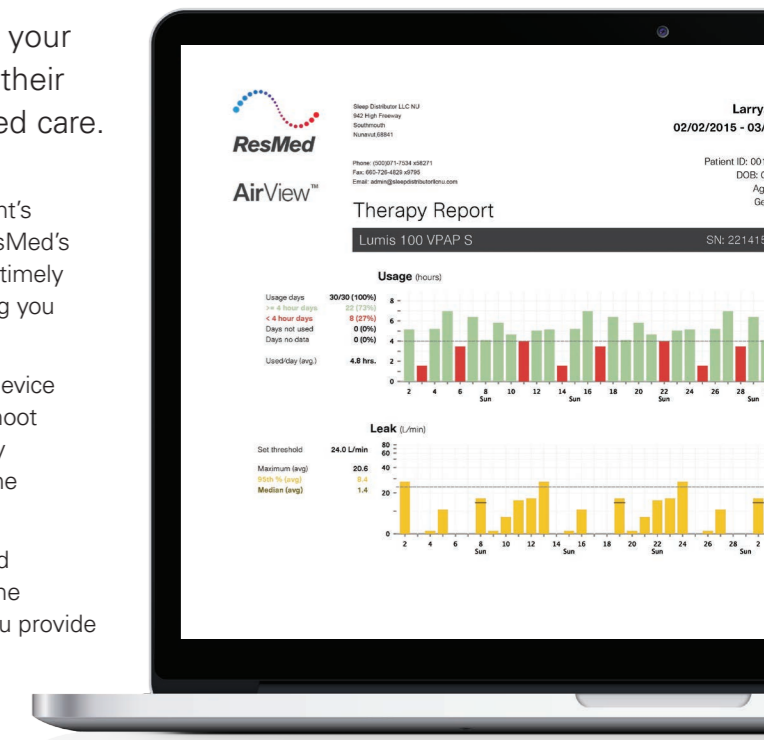| Monitoring 1/3	
‹ Home	
ST	PS 6.0
8.0	14.0
	Auto

Connected care, better insight

As well as delivering individualised ventilation to your patients, Lumis keeps you easily connected with their progress so you can continue to provide customised care.

With wireless connectivity built into every Lumis device, each patient's therapy data can be seamlessly and securely sent to **AirView**™, ResMed's cloud-based patient management system. Via AirView you can gain timely access to the most recent therapy statistics and trend data, enabling you to tailor therapy to each patient and their condition over time.

AirView's **remote assist** feature gives you access to each patient's device status and key settings (such as leak and humidification) to troubleshoot device-related issues quickly and easily. This may also reduce lengthy phone calls, unnecessary device returns and unscheduled visits to the patient's home: a valuable time-saving feature.

And with **remote monitoring**, you can identify 'at risk' patients and make the necessary adjustments to their therapy settings – from the convenience of your office to the comfort of their home, to help you provide the appropriate therapy.

High-resolution data is also available with **ResScan**™ software.

Elegant design

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 comfort settings, 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 humidifier 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 benefits of humidification instantly – no settings to change and no complicated menus to navigate.

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

Mask selection completes the personalised ventilation picture. ResMed's AcuCare™ hospital disposable mask series delivers speed, stability and success in noninvasive ventilation.

AcuCare F1-4 hospital vented full face mask shown