



Respiratory care therapy matrix

ResMed's portfolio of respiratory care solutions includes a range of ventilators, from non-invasive pressure support devices to life support ventilators suitable for invasive applications. Featuring a variety of therapy modes, sophisticated technologies and data management options, our therapy devices allow you to effectively and comfortably treat your patients at any stage of their respiratory disease progression.

Product Comparison	 Lumis™ Tx	 VPAP™ COPD	 AirCurve™ 10 ST-A	 Stellar™ 100	 Stellar™ 150	 Astral™ 100	 Astral™ 150
Indication for use*	Obstructive sleep apnea (OSA), respiratory insufficiency, central or mixed apneas, or periodic breathing patients above 30 lbs (13 kg)	Respiratory insufficiency for patients above 30 lbs (13 kg)	Respiratory insufficiency for patients above 30 lbs (13 kg)	Respiratory failure for patients above 30 lbs (13 kg)	Respiratory failure for patients above 30 lbs (13 kg)	Life support for patients above 11 lbs (5 kg)	Life support for patients above 11 lbs (5 kg)

*AutoSet, VAuto, ASV, ASVAuto and iVAPS mode are indicated for patients weighing more than 66 lbs (30 kg)

Product Codes							
Device only	36048	36034		24163	24161	27001	27003
Device + humidifier	36058	36044	28210				
Device + humidifier + heated tube		36054	28211				
Configuration							
Non-invasive use	•	•	•	•	•	•	•
Invasive use				•	•	•	•
Single circuit w/ leak	•	•	•	•	•	•	•
Single circuit w/ valve						•	•
Double circuit							•
Alarms (Available alarms may vary; check the Clinical Manual.)	•	•	•	•	•	•	•
Specifications							
Weight	2.30 lbs (1.0 kg) incl. H5i™ 3.82 lbs (1.7 kg)	2.30 lbs (1.0 kg) incl. H5i 3.82 lbs (1.7 kg)	2.75 lbs (1.2 kg)	4.63 lbs (2.1 kg)	4.63 lbs (2.1 kg)	7.1 lbs (3.2 kg)	7.1 lbs (3.2 kg)
Dimensions (L x W x H)	6.0" x 6.8" x 3.4"	6.0" x 6.8" x 3.4"	4.57" x 10.04" x 5.91"	9.06" x 6.69" x 4.72"	9.06" x 6.69" x 4.72"	11.2" x 8.4" x 3.6"	11.2" x 8.4" x 3.6"
Internal battery				2 hours	2 hours	8 hours	8 hours
External battery compatibility	•	•	•	•	•	•	•
Sound power level	35 ± 2 dBA**	35 ± 2 dBA**	34.6 ± 2 dBA**	39 ± 3 dBA**	39 ± 3 dBA**	43 ± 3 dBA**	43 ± 3 dBA**
Sound pressure level	27 ± 2 dBA**	27 ± 2 dBA**	26.6 ± 2 dBA**	31 ± 3 dBA**	31 ± 3 dBA**	35 ± 3 dBA**	35 ± 3 dBA**
Heated humidifier (Climate Control)	•	•	•				
Compatible with third-party humidifiers	•	•	•	•	•	•	•
Preset programs	1	1	1	2	2	2	4
Oxygen use	Up to 15 L/min***	Up to 15 L/min	Up to 15 L/min***	Up to 30 L/min	Up to 30 L/min	Up to 30 L/min	Up to 30 L/min
Integrated FiO ₂							•

Please refer to the product user guide or clinical guide for more information.

**As measured according to ISO 17510-1:2007 (CPAP mode)

***4 L/min in iVAPS, ASVAuto, AutoSet™, VAuto



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	Lumis Tx	VPAP COPD	AirCurve 10 ST-A	Stellar 100	Stellar 150	Astral 100	Astral 150
Therapy Modes							
CPAP	•	•	•	•	•	•	•
S	•	•	•	•	•	•	•
ST	•		•	•	•	•	•
T	•		•	•	•	•	•
PAC	•		•	•	•	•	•
iVAPS	•		•		•	•	•
ASV	•						
ASVAuto	•						
VAuto	•						
AutoSet	•						
PS						• ^A	• ^A
ACV						• ^A	• ^A
PACV						• ^A	• ^A
P-SIMV						• ^A	• ^A
V-SIMV						• ^A	• ^A
Features							
Delivered pressure	3–30 cm H ₂ O	3–30 cm H ₂ O	3–30 cm H ₂ O	3–40 cm H ₂ O	3–40 cm H ₂ O	2–50 cm H ₂ O	2–50 cm H ₂ O
Delivered tidal volume						Adult: 100 to 2500 mL Pediatric: 50 to 300 mL	Adult: 100 to 2500 mL Pediatric: 50 to 300 mL
Respiratory rate	5–50 bpm		5–50 bpm	5–60 bpm	5–60 bpm	Adult: Off, 2–50 bpm Pediatric: Off, 5–80 bpm	Adult: Off, 2–50 bpm Pediatric: Off, 5–80 bpm
Vsync	•	•	•	•	•	•	•
TiControl™	•	•	•	•	•	•	•
Trigger and Cycle	•	•	•	•	•	•	•
Intellegent backup rate	•		• ^{AA}		•	•	•
Ramp	•	•	• [†]	•	•		
Sigh breath							• ^A
Manual breath							• ^A
Data							
Cellular connectivity [§]		• [‡]	•	• [‡]	• [‡]	• [‡]	• [‡]
AirView™ compatibility		•	•	•	•	•	•
AirView Remote Assist			•				
ResScan™ compatibility	SD Card	SD Card	SD Card	USB	USB	USB	USB
FiO ₂ monitoring				Optional	Optional	Optional	•
SpO ₂ monitoring	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Compatible with ResMed Remote Alarm				•	•	•	•

^AAvailable in single valve and dual circuit configuration only

^{AA}Available in ST and iVAPS mode

[†]Ramp down also available

[‡]Requires module

[§]Established through a cellular modem and is subject to data transmission availability.

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