

TECHNOLOGY HIGHLIGHT

Advanced performance for better patient care

The micro-blower and three-way rotary valve allows:

- rapid trigger response and pressurisation
- rapid expiratory pressure relief response
- automatic circuit compensation to optimise Vt delivery and monitoring (useful for paediatrics and in volume mode)
- automatic leak compensation
- automatic circuit type detection to minimise setup errors
- easy maintenance and servicing.



VS III triggers
Automatic inspiratory and expiratory pressure trigger functions help reduce the patient's work of breathing and facilitate patient-device synchrony.

- Suitable for adult and paediatric ventilation
- Tgl(P): Inspiratory Pressure Trigger for valve modes
- Tgl(V): Inspiratory Flow Trigger for double circuit configuration
- TgE: Auto or manual Expiratory Trigger set as a percentage of peak flow, to facilitate patient cycling

RESMED

VENTILATION MODES	LEAKAGE VENTILATION					VALVE VENTILATION					ADJUSTMENTS	
	CPAP	S	ST	PC	APC	PS-Vs	PCV	APCV	PS-Vt	CV		ACV
Parameters	CPAP	S	ST	PC	APC	PS-Vs	PCV	APCV	PS-Vt	CV	ACV	–
Rise time/Flow shape	–	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	0.1,2,3	–	–
IPAP/PS (cm H ₂ O)	–	5–30	6–30	6–30	6–30	5–50	5–50	5–50	5–50	–	–	1 cm H ₂ O
Vt (mL)	–	–	–	–	–	–	–	–	50–2500	50–2500	–	10 mL (50–400) 50 mL (400–2500)
EPAP/PEEP (cm H ₂ O)	–	4–20	4–20	4–20	4–20	0/4–20	0/4–20	0/4–20	0/4–20	0/4–20	–	1 cm H ₂ O
Respiratory rate (bpm)	–	NO	5–50	5–50	5–50	NO/5–50	5–50	5–50	5–50 (5–60 paediatric)	5–50 (5–60 paediatric)	–	1 bpm
Ti (seconds)	–	–	–	0.4–3	0.4–3	–	0.4–3	0.4–3	–	0.4–3	–	0.1 s
I:E ratio	–	–	–	1.29–1.03	–	–	1.29–1.03	–	–	1.29–1.03	–	–
Expiratory trigger (% TgE)	–	–	–	–	–	5–90/AUTO	–	–	5–90/AUTO	–	–	1%
Trigger	–	–	–	NO	YES	–	–	–	–	–	–	–
Flow trigger [Tgl (V)]/L/min	–	–	–	–	–	NO/3–8	NO/3–8	NO/3–8	NO/3–8	NO/3–8	–	1 L/min
Pressure trigger [Tgl (P)]	–	–	–	–	–	AUTO/1–6	NO	AUTO/1–6	AUTO/1–6	NO	AUTO/1–6	–
Vts (mL)	–	–	–	–	–	NO/50–2500	NO/50–2500	–	–	–	–	10 mL (50–400) 50 mL (400–2500)
Ti min (seconds)	–	0.3–2.5	0.3–2.5	–	–	0.3–2.5	–	–	–	–	–	0.1 s
Ti max (seconds)	–	0.7–3	0.7–3	–	–	0.7–3	–	–	0.4–3	–	–	0.1 s
Pressure	4–20	–	–	–	–	–	–	–	–	–	–	–

ALARM THRESHOLD										
Pressure max	–	–	–	–	–	–	–	20–60	20–60	1 cm H ₂ O
Pressure min	–	–	–	–	–	–	–	2–20	–	1 cm H ₂ O
Frequency max	–	–	–	10–70 bpm/NO	–	–	10–70 bpm/NO	10–70 bpm/NO	10–70 bpm/NO	1 bpm
Vti min (mL)	–	–	–	–	–	NO/20–2500	NO/20–2500	–	–	10 mL (50–400) 50 mL (400–2500)
Vte min (mL)	–	–	–	–	–	NO/20–2500	NO/20–2500	NO/20–2500	NO/20–2500	10 mL (50–400) 50 mL (400–2500)
Vt max (mL)	–	–	–	–	–	NO/50–2500	NO/50–2500	NO/50–2500	–	10 mL (50–400) 50 mL (400–2500)
FiO ₂ min	–	–	–	–	–	–	–	NO/18–80%	–	1%
FiO ₂ max	–	–	–	–	–	–	–	NO/30–100%	–	1%

MEASUREMENTS			ACCURACY	
Vti (Vte double circuit)	0–2500	–	–	Estimation
f (bpm)	0–99	–	0–99	± 10 % for Vti ± 15 % for Vte (for adults)
I:E Ratio	1/0.1–1/9.9	–	1/0.1–1/9.9	± 0.1
Leaks	0–25 L/min	–	–	Estimation
MV _T /MV _E	0–250 L/min	–	–	Estimation
Ti	–	–	0–250L/min	± 10 % for MV _T ± 15 % for MV _E
FiO ₂	0–100 %	–	0–3 s	0.01 s
			0–100 %	2.5 % + 2.5 % of the measured value

TECHNICAL DATA VS III	
Mains supply	100–240 VAC 47–63 Hz
Power consumption	75 VA max
Internal battery	NiMH, 24 V 2.1 Ah
Internal battery duration	2–4 hrs
External battery power	26 VDC 3A max
Size	14.5 cm x 27.5 cm x 22.1 cm
Weight	2.9 kg without external power supply

PRODUCT CODES		ACCESSORIES	
English Single Circuit (with European and UK Power Cord)	VS3014870	VS III EasyDiag Kit	KIT014247
English Double Circuit (with European and UK Power Cord)	VS3014871	Carry Bag	SAC015014
English Single Circuit (Canada and Taiwan)	VS3014872	Oxygen Monitoring Kit	KIT015015
English Double Circuit (Canada and Taiwan)	VS3014873	Oxygen Sensor	CAP008064

- Double circuit only
- Single leak circuit only

RESMED

VS III™

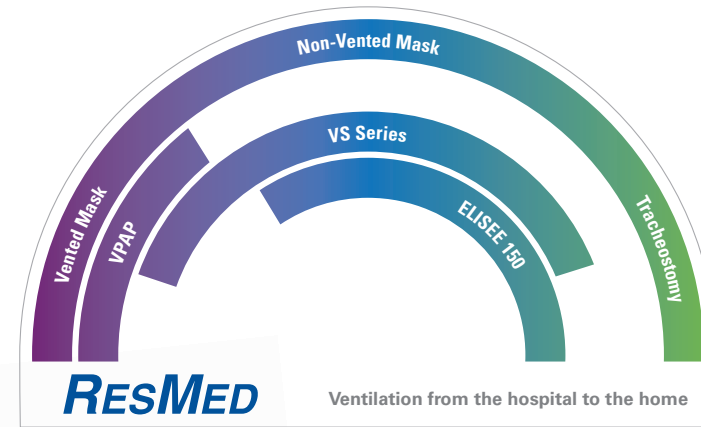
PRESSURE AND VOLUME VENTILATOR
For invasive and noninvasive use

Your versatile, efficient and user-friendly ventilation solution from the hospital to the home



Manufacturer: ResMed Paris 240 rue de la Motte 77550 Moissy-Cramayel France. **Distributed by:** ResMed Ltd 1 Elizabeth Macarthur Drive Bella Vista NSW 2153 Australia. See www.resmed.com for other ResMed locations worldwide. Protected by patent. FR 2839893. Other patents pending. VS III is a registered trademark of ResMed Paris. TiControl is a trademark of ResMed Ltd. Specifications may change without notice. ResMed Paris is a subsidiary of ResMed Inc. © 2009 ResMed Ltd. 1013442/1 09 04

VS III ... the latest pressure and volume ventilator in ResMed's VS Series



Versatility for clinical preferences

- A comprehensive range of pressure and volume modes
- Suitable for adults and paediatrics
- Leak and valve ventilation
- Suitable for invasive and noninvasive use
- Easy-to-use with single and double circuits
- Access to expired tidal volume measurements with adjustable alarms when using double circuit
- Internal battery life of 2-4 hours

From sub-acute phase to home treatment	
Leak modes	Valve modes
CPAP: Continuous Positive Airway Pressure	(A)CV: (Assisted) Volume Controlled Ventilation
S/ST: Spontaneous ventilation with or without backup rate	PS.Vs: Pressure Support with safety tidal volume
(A)PC: (Assisted) Pressure Controlled Ventilation	PS.Vt: Pressure Support with guaranteed tidal volume at every breath
—	(A)PCV: (Assisted) Pressure Controlled Ventilation

Large, user-friendly interface ... intuitive for patients and clinicians



Patient menu

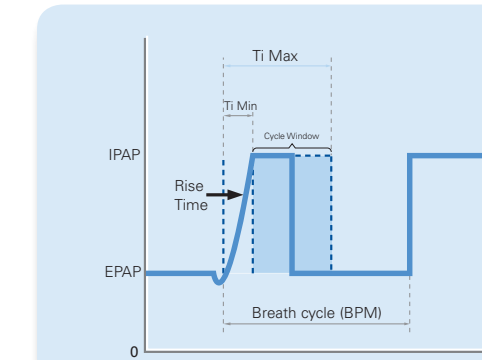


- Prominent battery level indicator for easy monitoring of battery discharge status
- Help messages for easy navigation



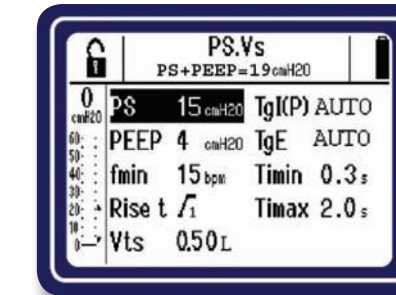
- Comprehensive information for patients and carers

Effective synchronisation for patient breathing comfort with TiControl™



TiControl facilitates patient-device synchrony, providing comfort and safety. TiMin guarantees a minimum inspiratory time, useful for restrictive patients. TiMax assures device cycling, even in the presence of significant leak. Available in spontaneous modes (S, ST, PS.Vs).

Clinical menu: easy to set up



- Ventilation settings at a glance
- Intuitive layout of settings, alarms and measurements
- Quick configuration and navigation with integrated help messages

Clinical features



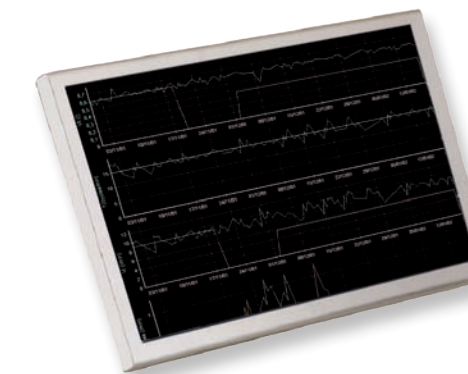
- Ability to preset two different ventilation programs, or day and night ventilation, on a single device—to suit patients' diverse therapy needs

ACCESSORIES FOR A COMPLETE SOLUTION



Easy to transport ventilator and accessories in the newly-designed VS III bag

The convenient see-through window allows the screen to be viewed without removing the device from the bag. The detachable lower pouch allows the user to carry the accessories separately when required.



Easy patient follow-up with EasyDiag™ software: simple and effective monitoring

EasyDiag software enables data retrieval via a serial link and allows online monitoring of the pressure, flow and volume.

Ventilation trends are also available for compliance and follow-up.



Low pressure oxygen enrichment and FiO₂ monitoring

Low pressure oxygen can be added via the oxygen port for a high level of O₂ concentration.

FiO₂ can be measured via an optional external oxygen sensor. The measurement is displayed on the device screen, making it easy for the clinician to monitor and set low and high FiO₂ alarms.