

## VS Integra™ Homecare pressure ventilator

(Noninvasive)

### Flexibility in pressure ventilation

- Ventilation with vented or non-vented masks
- Comprehensive pressure modes – S/ST, (A)PC, PSV, (A)PCV
- Pressure settings up to 50 cm H<sub>2</sub>O
- Optional oxygen inlet
- Suitable for chronic conditions

### Convenient and portable

- Lightweight
- Optional built-in battery with four hours of battery life\*

VS INTEGRA Comprehensive pressure modes	
Leakage ventilation	Valve ventilation
S/ST Spontaneous ventilation	PSV Pressure support ventilation
(A)PC Assisted controlled pressure ventilation with leakage circuit	(A)PCV Assisted controlled pressure ventilation



VS Integra: compact and portable pressure ventilator

\* Tested under specific settings. Please refer to the User Guide.



VS series: effective solutions from ResMed's homecare ventilation suite

### Easy to use

- Simplified menu—quick access to standard settings
- Systematic and logical navigation—goes through one parameter after another, ensuring that all critical parameters are viewed and set

### Synchronisation for breathing comfort

- Automatic inspiratory and expiratory trigger functions help reduce patient breathing effort
- TiControl™ facilitates patient-ventilator synchronisation
- Automatic leak compensation
- Micro-blower and three-way valve enhances

### Simple and effective monitoring

- Expanded menu—includes secondary parameters displayed on the device
- EasyDiag software—graphic analysis of ventilatory parameters, compliance information, remote monitoring, and a ventilation log
- Data management capabilities—for clinical evaluation and decision-making during titration and treatment, especially valuable when managing complex conditions
- Alarm options provide safety during therapy



## VS Integra™ and VS Ultra™

HOME VENTILATION CHOICES

- Flexibility in pressure ventilation (VS Integra)
- Versatility for clinical preferences (VS Ultra)
- Enhanced safety
- Convenient and portable
- Easy to use
- Synchronisation for breathing comfort
- Simple and effective monitoring



VS Integra™

VS Ultra™

# VS Ultra™ Homecare pressure and volume ventilator

(Invasive and noninvasive)

## Versatility for clinical preferences

- A complete range of pressure and volume ventilation modes with oxygen and circuit options
- Suitable for adults and children with high or low dependence on the ventilator

## Enhanced safety

- Alarm options provide safety during therapy
- Automatic detection of the type of circuit in use minimises handling errors

## Convenient and portable

- Lightweight
- Built-in battery with four hours of battery life\*
- External battery option

VS ULTRA The home ventilation system with leakage and valve modes	
Leakage ventilation	Valve ventilation
S/ST Spontaneous ventilation	PSV Pressure support ventilation
(A)PC Assisted controlled pressure ventilation with leakage circuit	(A)PCV Assisted controlled pressure ventilation
—	PS.V <sub>r</sub> Pressure support with tidal volume
—	(A)CV Assisted controlled volume ventilation

## Easy to use

- Easy user interface
- Simplified menu for quick access to standard settings

## Synchronisation for breathing comfort

- Automatic inspiratory and expiratory trigger functions help reduce patient breathing effort
- TiControl™ facilitates patient-ventilator synchronisation
- Automatic leak compensation
- Micro-blower and three-way valve for precise flow control, faster response time to reach targeted



VS series: effective solutions from ResMed's homecare ventilation suite

## Simple and effective monitoring

- Expanded menu—includes secondary parameters displayed on the device
- EasyDiag software—graphic analysis of ventilatory parameters, compliance information, remote monitoring, and a ventilation log
- Data management capabilities—for clinical evaluation and decision-making during titration and treatment, especially valuable when managing sub-acute and complex conditions

VS ULTRA The complete home ventilation system		
Ventilation types	Volume	✓
	Pressure	✓
	Leakage (vented mask)	✓
	Valve (non-vented mask)	✓
Circuit options	Single	✓
	Double	✓
Patients	Adult	✓
	Paediatric	✓
Clinical conditions	Sub-acute (high dependency patients)	✓
	Chronic (low dependency patients)	✓
Oxygen	Optional	✓

\* Tested under specific settings. Please refer to the User Guide.

VS Ultra: compact and portable pressure and volume ventilator

# RESMED

## VS Ultra and VS Integra Technical Specifications

- VS Ultra and Integra
- VS Ultra
- VS Integra

VENTILATION MODES	LEAKAGE VENTILATION					VALVE VENTILATION					Adjustments	
	CPAP	S	ST	PC	(A)PC	PSV	PCV	(A)PCV	PS.V <sub>r</sub>	(A)CV		
Parameters	CPAP	S	ST	PC	(A)PC	PSV	PCV	(A)PCV	PS.V <sub>r</sub>	CV	(A)CV	—
Pressure slope	—	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	0,1,2,3	—
IPAP/PS (hPa)	4–20	5–30	6–30	6–30	6–30	5–50	5–50	5–50	5–50	—	—	1 hPa
V <sub>t</sub> (mL)	—	—	—	—	—	—	—	—	50–2500	50–2500	10mL (50–400) 50mL (400–2500)	—
EPAP/PEEP (hPa)	4–20	4–20	4–20	4–20	4–20	0/4–20	0/4–20	0/4–20	0/4–20	0/4–20	0/4–20	1 hPa
Respiratory rate	NO	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	0.1 sec
Exhalation trigger (%)	—	—	—	—	—	5–90/AUTO	—	—	5–90/AUTO	—	—	1%
Trigger	—	—	—	NO	YES	—	—	—	—	—	—	from 1 to 6
Flow trigger (double circuit)	—	—	—	—	—	NO/3–8	NO/3–8	NO/3–8	NO/3–8	NO/3–8	NO/3–8	1 l/min
Pressure trigger	—	—	—	NO	YES	AUTO/1–6	OFF	AUTO/1–6	—	—	—	from 1 to 6
V <sub>ts</sub> (mL)	—	—	—	—	—	NO/50–2500	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 sec
Ti max (seconds)	—	1–3	1–3	—	—	1–3	—	—	0.4–3	—	—	0.1 sec

## ALARM THRESHOLD

P <sub>max</sub>	—	—	—	—	—	—	—	20–90	20–90	1 hPa
P <sub>min</sub>	—	—	—	—	—	—	—	—	2–20	1 hPa
F <sub>max</sub>	—	—	—	10–70 c/min/NO	—	10–70 c/min/NO	10–70 c/min/NO	10–70 c/min/NO	10–70 c/min/NO	10–70/NO 1 bpm
V <sub>ti</sub> min (mL)	—	—	—	—	NO/20–2500	NO/20–2500	—	—	—	10 mL (50–400) 50 mL (400–2500)
V <sub>ts</sub> min* (mL)	—	—	—	—	NO/20–2500	NO/20–2500	NO/20–2500	NO/20–2500	NO/20–2500	10 mL (50–400) 50 mL (400–2500)
V <sub>t</sub> max (mL)	—	—	—	—	NO/50–2500	NO/50–2500	NO/50–2500	NO/50–2500	—	10 mL (50–400) 50 mL (400–2500)

## MEASUREMENTS

V <sub>ti</sub> (mL)	0–2500	—	Estimation
V <sub>ti</sub> (V <sub>te</sub> double circuit)	0–2500	0–2500	± 10%
F (bpm)	0–99	0–99	± 1 bpm
I/E	1/0.1–1/9.9	1/0.1–1/9.9	± 0.1%
Leaks	0–25 l/min	—	Estimation
Vi	0–250 l/min	—	Estimation
Vi (V <sub>e</sub> double circuit)	0–250 l/min	0–250 l/min	± 10%
V <sub>emax</sub> **	—	0–200 l/min	± 15%
Size	13.5 cm x 28.5 cm x 20.4 cm (5.3" x 11.2" x 8.0")		
Weight	3.5 kg (7.7 lb) with battery		
Size	13.5 cm x 28.5 cm x 20.4 cm (5.3" x 11.2" x 8.0")		
Weight	2.6 kg (5.7 lb) without internal battery		

\* Double circuit option as substitute for V<sub>ti</sub> Min \*\* Double circuit option only