

Easy to use, multifunction anesthesia ventilator designed for all patient types

Features an intuitive user interface and comprehensive support modes.

- » Large, color Touchscreen and Com-Wheel control
- » Volume, PCV, PSV, SIMV and SMMV modes
- » Single/dual waveform display

A Quick Look

- Volume, PCV, PSV, SIMV and SMMV modes
- Comprehensive printer/data outputs for networking and interfacing to patient monitors
- Integrated oxygen monitor and spirometry
- Inverse I:E ratio capability
- · Electronic PEEP
- Autoclavable latex-free bellows
- Oxygen and air drive gas
- 30 minutes of battery backup
- Selectable dual waveform display:
 - Pressure v. time
 - Volume v. time
 - Pressure v. volume (for ventilation analysis) plus waveform free facility
- Save and recall function for user specific settings
- · Adult and pediatric default settings
- · Flexible specification
 - Stand-alone operation or seamless integration
 - with the DRE Integra AV-S workstation
 - Display mounting option
 - Multilingual display

Advanced Spontaneous Breathing Modes

SIMV (Synchronized Intermittent Mandatory Ventilation): Provides a minimum level of volume, and allows spontaneous breaths and set mandatory breaths. With a spontaneously breathing patient, Negative pressure† in the Trigger Window* (generated by the patient's spontaneous breath) results in a synchronized mandatory breath at a preset volume and rate.

SMMV (Synchronized Mandatory Minute Ventilation): Provides a set level of minute volume ventilation and allows spontaneous breaths, combined with a synchronized mandatory breath, to achieve the set minute volume. With a spontaneously breathing patient, negative pressure† in the Trigger Window* (generated by the patient's spontaneous breath) results in a synchronized mandatory breath, ensuring that the set minute volume is achieved.

PSV mode (Pressure Supported Ventilation): Assists each spontaneous breath with a preset pressure, reducing the effort required to breathe. Negative pressure† (generated by the patient's spontaneous breath) results in synchronised pressure support. PSV is used to support spontaneously breathing patients ONLY. If the patient makes no attempt to breathe, the ventilator will not provide support and the apnea alarm will be activated.

[†]Negative relative to PEEP *Trigger Window = 60% of Cycle Time



Equipment for the way you operate

Touchscreen Anesthesia Ventilator

Technical Specifications

Physical		Alarms – Automatio
Size (H x W x D, control unit)	7.3. x 11.4 x 11.8 in	Low Pressure
	18.5 x 29 x 30 cm	Low Tidal Volume _
w/ adult bellows (H x W x D)	7.3. x 11.4 x 11.8 in	Incorrect rate or rat
	38.5 x 29 x 30 cm	 Mains Failure
	8.4" / 21 cm (8.4") TFT	• Low Battery
2	7.6 kg	Vent Loop
	9.0 kg	• Apnea
	20 to 1600 ml, 20 to 350 ml (pediatric option)	
Power	90 to 264 VAC, 47 to 63 Hz	Alarms – Optional
Drive Gas	Oxygen or air	Tidal Volume – Min
		Tidal Volume – Max
Functional		Minute Volume – N
Tidal Volume (Vt)	20 to 1600 ml	Minute Volume – M
-	4 to 100 bpm	Low and High O ₂ C
	1:0:3 to 1:8	High Airway Pressu
	10 to 80 cmH ₂ 0	
Fresh Gas Compensation	Automatic tidal	Default Settings
	volume adjustment	<u>Volume</u>
Ventilation Modes	Off, standby, volume, pressure controlled,	Tidal Volume (Vt)
	spontaneous, SIMV, SMMV, PSV	 Rate (BPM)
	(for use in anesthesia procedures only)	 I:E Ratio
Sigh Function (volume mode)	Tidal volume (Vt) x 1.5 is delivered once,	• Pmax
	twice, three or four times every 50 breaths	
	(frequency is user selectable)	<u>Pressure</u>
	10 to 50 cmH ₂ 0	Tidal Volume (Vt)
	Active volume and pressure alarms,	 Rate (BPM)
р	atient support function – automatic switch to	 I:E Ratio
	volume cycle mode if	 P-Target
	apnea alarm is triggered	
	4 to 30 cmH ₂ 0	<u>SIMV</u>
Oxygen Monitor	Fuel cell type	Tidal Wave (Vt)
		 Rate (BPM)
SIMV, SMMV, PSV		 Inspiratory Time
Trigger	0.7 to 4 L/min (PEEP referenced)	Trigger
	60% of Expiratory Time	
	As Volume Mode	<u>SMMV</u>
	As Volume Mode	Tidal Wave (Vt)
	0.5 to 5 Seconds	• Rate (BPM)
Support Pressure	3 to 20 CmH ₂ 0 (PEEP Referenced)	Inspiratory Time
Alarms – Automatic		• Trigger
Alarm Mute	30 seconds	PSV
	Less than 235 kPa (34 psi)	• Support Pressure
High Continuous Airway Pressure	Above 30 cmH ₂ 0 at start of cycle	 Inspiratory Time

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Low Pressure	4 to 14 cmH ₂ 0 PEEP reference		
Low Tidal Volume			
Incorrect rate or ratio			
Mains Failure	30 minutes battery backup		
Low Battery	5 minutes use		
Vent Loop	Internal or battery failure		
• Apnea	Flow referenced		

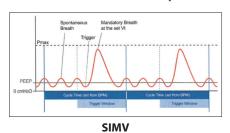
ional User Set

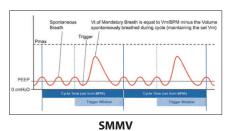
Tidal Volume – Minimum	0 to 1600 ml
Tidal Volume – Maximum	20 to 1600 ml
Minute Volume – Minimum	0 to 10 L
Minute Volume – Maximum	0 to 30 L
Low and High O, Concentration	18% to 105%
High Airway Pressure	10 to 80 cmH 0 adjustable

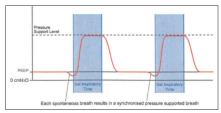
Delaale Settings		
<u>Volume</u>	<u>Adult</u>	<u>Pediatric</u>
Tidal Volume (Vt)	600 ml	150 ml
 Rate (BPM) 	10	15
• I:E Ratio	1:2	1:2
• Pmax	38 cmH ₂ 0	$38 \text{ cmH}_2 0$
Pressure	Adult	Pediatric
• Tidal Volume (Vt)	600 ml	150 ml
• Rate (BPM)	10	150 1111
• I:E Ratio	1:2	1:2
• P-Target	10 cmH ₃ 0	1.2 10 cmH ₃ 0
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SIMV	<u>Adult</u>	<u>Pediatric</u>
Tidal Wave (Vt)	600 ml	200 ml
• Rate (BPM)	6	10
 Inspiratory Time 	2 Seconds	1 Second
 Trigger 	-1 cmH ₂ 0	-1 cmH ₂ 0
C. I. I.	A 1 1	D 11
SMMV	Adult	<u>Pediatric</u>
• Tidal Wave (Vt)	3.6 L	2 L
• Rate (BPM)	6	10
 Inspiratory Time 	2 Seconds	1 Second
• Trigger	-1 cmH ₂ 0	-1 cmH ₂ 0
PSV	Adult	<u>Pediatric</u>
• Support Pressure	10 cmH ₃ 0	10 cmH ₂ 0
Support. ressure		. 5 5.711 12

2 Seconds

Features Three Advanced Spontaneous Breathing Modes







1 seconds

PSV

