

Controls	
Ventilation modes	(S)CMV, SIMV, SPONT, ASV, P-CMV, P-SIMV APVcmv, APVsimv, DuoPAP, APRV, NIV
Special functions	Manual breath, 100% O ₂ , standby, sigh, apnea backup, tube resistance compensation (TRC)
Patient types	Adult, pediatric, infant
(S)CMV and P-CMV rate	5 to 120 b/min
SIMV, P-SIMV, and DuoPAP rate	1 to 60 b/min
Tidal volume / target tidal volume (APV modes)	10 to 2000 ml
PEEP/CPAP and P low (DuoPAP and APRV)	0 to 50 cmH ₂ O
Oxygen	21 to 100%
I:E ratio	1:25 to 4:1
Inspiratory time	0.1 to 10 s (10 to 80% of cycle time)
Pause time	0 to 8 s (0 to 70% of cycle time)
Peak flow	1 to 180 l/min
T low (APRV)	0.2 to 30 s
T high (DuoPAP and APRV)	0.1 to 30 s
Pressure trigger	0.5 to 10 cmH ₂ O below PEEP/CPAP
Flow trigger	0.5 to 15 l/min
Automatic base flow setting	4 to 30 l/min, depending on flow trigger setting
Pressure control	5 to 100 cmH ₂ O, added to PEEP/CPAP
P high (DuoPAP and APRV)	0 to 50 cmH ₂ O
Pressure support	0 to 100 cmH ₂ O, added to PEEP/CPAP
Pressure ramp	25 to 200 ms
Expiratory trigger sensitivity	5 to 70% of inspiratory peak flow
% minute volume (ASV)	10 to 350%
Flow patterns	Sine, square, 100% decelerating, 50% decelerating
Monitoring	
Pressure	Peak, mean, minimum, plateau, PEEP/CPAP, AutoPEEP
Flow	Inspiratory peak, expiratory peak
Volume	Expiratory tidal volume, expiratory minute volume, leakage volume
Time	Inspiratory, expiratory, I:E ratio, total frequency, spontaneous breath frequency
Oxygen	Airway oxygen concentration
Lung function parameters	Inspiratory resistance, expiratory resistance, static compliance, inspiratory time constant, expiratory time constant, imposed work of breathing, pressure time product, rapid shallow breathing index, P:01
Real-time waveforms/loops	Simultaneous display of up to three waveforms or one loop based on: volume, flow, airway pressure, or auxiliary pressure
Trending	Simultaneous display of up to three parameter trends, selected from 26 possible monitoring parameters, for 1, 12, or 24 hours
Others	Waveform freeze and cursor function, inspiratory/expiratory hold
Flow Sensor dead space	2 ml (infant), 9 ml (pediatric/adult)

Pulmonary function assessment	
P/V Tool	Automatic maneuver to assess static compliance
Alarms	
Operator-adjustable	Low/high minute volume, low/high pressure, low/high tidal volume, low/high rate, apnea time, air trapping
Special alarms	Oxygen concentration, disconnection, loss of PEEP, exhalation obstruction, check settings, Flow Sensor alarms, ASV/APV alarms, power supply, batteries, oxygen/air supplies
Event log	
	Storage and display of up to 1000 events with time stamp
Electrical and gas supplies	
Input voltage	100 to 240 V ~ ±10%, 50/60 Hz
Power consumption	210 VA maximum
Backup battery time	1 hour typical with fully charged battery
Oxygen and air supplies	200 to 1000 kPa (29 to 145 psi)
Environment	
Temperature	10 to 40 °C (operating), -10 to 60 °C (storage)
Humidity	30 to 75% noncondensing (operating), 5 to 85% noncondensing (storage)
Altitude	Up to 3000 m (9843 ft)
Physical dimensions	
W x D x H	440 x 620 x 1540 mm (17.3 x 24.4 x 60.6 in.) with standard trolley
	440 x 620 x 1415 mm (17.3 x 24.4 x 55.7 in.) with short trolley
	400 x 290 x 730 mm (15.7 x 11.4 x 28.7 in.) with shelf mount
Weight	48 kg (105 lb) with standard trolley, 27 kg (59.5 lb) with shelf mount
Main patient outlet	ISO 22M/15F
Air and oxygen inlets	DISS male, NIST (option)
Hardware options	
	Nebulizer; communications interface including RS-232C port, remote nurse's call, and I:E ratio
Standards	
	IEC 60601-1/EN 60601-1 and Amendments A1 and A2, IEC 60601-1-2/EN 60601-1-2, IEC 60601-1-4/EN 60601-1-4, IEC 60601-2-12, EN 794-1, C22.2 No. 601.1, UL 2601-1, ISO 7767
Gold-specific features	
	Tubing resistance compensation (TRC), P/V Tool, noninvasive ventilation (NIV)

Note: 1 hPa = 1 mbar ≈ 1 cmH₂O

GALILEO ventilation modes

Mode	Description	Type	Patient age group		
			Adult	Pediatric	Infant
(S)CMV	(Synchronized) controlled mandatory ventilation	Volume	✓	✓	
SIMV	Synchronized intermittent mandatory ventilation	Volume	✓	✓	
P-CMV	Pressure-controlled mandatory ventilation	Pressure	✓	✓	✓
P-SIMV	Pressure-controlled synchronized intermittent mandatory ventilation	Pressure	✓	✓	✓
SPONT	Pressure support ventilation	Pressure	✓	✓	✓
DuoPAP	Dual positive airway pressure	Pressure	✓	✓	✓
APRV	Airway pressure release ventilation	Pressure	✓	✓	✓
NIV	Noninvasive ventilation	Pressure	✓	✓	
APVcmv	Adaptive pressure ventilation + controlled mandatory ventilation	Adaptive	✓	✓	✓
APVsimv	Adaptive pressure ventilation + synchronized intermittent mandatory ventilation	Adaptive	✓	✓	✓
ASV	Adaptive support ventilation	Adaptive	✓	✓	

GALILEO monitoring parameters

Type	Unit	Parameter	Description
Pressure	cmH ₂ O	Ppeak	Peak airway pressure
Pressure	cmH ₂ O	Pmean	Mean airway pressure
Pressure	cmH ₂ O	Pminimum	Minimum airway pressure
Pressure	cmH ₂ O	Pplateau	Plateau airway pressure
Pressure	cmH ₂ O	PEEP/CPAP	Positive-end expiratory pressure / continuous positive airway pressure
Flow	l/min	Insp Flow	Peak inspiratory flow
Flow	l/min	Exp Flow	Peak expiratory flow
Volume	ml	VTE	Expiratory tidal volume
Volume	ml	ExpMinVol	Expiratory minute volume
Volume	ml	VLeak	Leakage volume at the airway
Time		I:E	Inspiratory : expiratory ratio
Time	b/min	fTotal	Total breathing frequency
Time	b/min	FSpont	Spontaneous breathing frequency
Time	s	TI	Inspiratory time
Time	s	TE	Expiratory time
Oxygen	%	Oxygen	Airway oxygen concentration (FIO ₂)
Lung mechanics	ml/cmH ₂ O	Cstat	Static compliance
Lung mechanics	cmH ₂ O	PO1	Airway occlusion pressure
Lung mechanics	cmH ₂ O	AutoPEEP	AutoPEEP or intrinsic PEEP
Lung mechanics	cmH ₂ O*s	PTP	Pressure time product
Lung mechanics	s	RCexp	Expiratory time constant
Lung mechanics	s	RCinsp	Inspiratory time constant
Lung mechanics	cmH ₂ O/l/s	Rexp	Expiratory flow resistance
Lung mechanics	cmH ₂ O/l/s	Rinsp	Inspiratory flow resistance
Lung mechanics	1/l*min	RSB	Rapid shallow breathing index
Lung mechanics	J/l	WOBimp	Imposed work of breathing



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