

VG70

TECHNICAL DATA



Patient type	Adult and pediatric patients	
Ventilation settings		
Ventilation modes	<ul style="list-style-type: none"> – VCV (air conditioning) – PCV (air conditioning) – PRVC, optional – VSIM (VCV) + VSPS – Safety valve of the safety valve (VSC) + safety valve of the safety valve – VSM (PRVC) + VSM – SPONT/CPAP+PSV – BIVENT/APRV +PSV, optional – NIV/CPAP – NIV-T – NIV-S/T 	
Improvements	<ul style="list-style-type: none"> – Apnea ventilation – Pressure and flow trigger – Automatic tube compensation (ATC) – Smart suction – Manual breathing – Retention of Insp./Exp. – Frozen screen – Nebulization – Lung recruitment – Non-invasive ventilation (NIV) 	
Ventilation rate (FR)	1 to 80 bpm	
Inspiratory time (Ti)	0.2 to 9 s (adult) 0.2 to 5 s (pediatric)	
Tidal volume (VT)	20-2000 ml	
Inspiratory flow (Flow)	0 to 60 L/min (pediatric) 0 to 180 L/min (adult)	
Inspiratory pressure (Pinsp)	0 to 90 mbar (or hPa or cmH ₂ O)	
Inspiratory pressure limit (Pmax)	0 to 110 mbar (or hPa or cmH ₂ O)	
PEEP	0 to 35 mbar (or hPa or cmH ₂ O)	
Rise time (slope)	0 to 2 s	
O ₂ concentration (FiO ₂)	21 to 100% vol.	
Trigger sensitivity	0.5 to 20 L/min (flow activator) – 20 to 0 mbar (or hPa or cmH ₂ O) (Pressure Trigger)	
BIVENTE	– Inspiratory time (T high) 0.2 to 30 s – Expiratory time (low T) 0.2 to 30 s	

- Inspiratory pressure (Phigh)
5 to 90 mbar (or hPa or cmH2O)
- Expiratory pressure (Plow)
0 to 50 mbar (or hPa or cmH2O)

Automatic Tube Compensation (ATC) Inner Tube Diameter

- Endotracheal tube ET
Adult patients 5 to 12 mm (0.17 to 0.47 inches)
Pediatric patients 2.5 to 8 mm (0.10 to 0.31 inches)
- Tracheostomy tube Trach.
Adult patients 5 to 12 mm (0.17 to 0.47 inches)
Pediatric patients 2.5 to 8 mm (0.10 to 0.31 inches)
Compensation grade 0 to 100%

Measured values displayed

Airway pressure measurement	Plateau pressure (Pplat)
	Positive end-expiratory pressure (PEEP)
	Maximum inspiratory pressure (PIP)
	Mean airway pressure (Pmean)
	Minimum airway pressure (Pmin)
Flow measurement	Range -40 to 110 mbar (or hPa or cmH2O)
	Total minute volume (MV)
	Expired minute volume (MVe)
	Spontaneous minute volume (MVspont)
	Range -180 to 180 L/min BTPS
	Tidal Volume Measurement Tidal Volume (VT)
	Inspiratory tidal volume
Frequency measurement	Expiratory tidal volume
	Respiratory rate (RR)
	Total respiratory rate (ftotal)
	Spontaneous respiratory rate (spont)
O2 measurement	Range 0 to 100 bpm
	Inspiratory O2 concentration (FiO2)
CO2 measurement	Range 18 to 100 Vol%
	End-tidal CO2 concentration (etCO2)
	Range 0 to 100 mmHg

Calculated values displayed

Compliance (C)
Resistance (R)
MV Leak

WOB

Viva

PEEPi

Curve visualizations

Airway pressure (t)

(Paw) -20 to 100 mbar (or hPa or cmH2O)

Flow rate (t) -180 to 180 L/min

Volume (t) (V) 0 to 3000 mL

CO2 (t) 0 to 100 mmHg (or 0 to 13.2 kPa)

Pressure-volume loop

Pressure and flow loop

Flow-volume loop

Alarms / Monitoring

Expiratory minute volume (MV)

High / Low

Airway pressure (PAW)

High / Low

Inspiratory tidal volume (Vti)

High

Volume Monitoring (VT) (in VG or VS) Low (automatic)

PEEP

High / Low

Inspection of O2 concentration (FiO2)

High/Low (automatic)

End-tidal CO2 concentration (etCO2)

High / Low

Respiratory rate (RR)

High

Apnea alarm time (Tapn)

5 to 60 seconds, Off

Performance data

Control principle

Continuous flow controlled by pressure and cycling over time

Nebulization

30, 45 minutes

Suction

Oxygen enrichment

Before sputum aspiration 3 min

Suction phase

Post sputum aspiration 2 min

Base flow

5 L/min + Vsens

Inspiratory flow

max. 180 l/min

Dead space volume

Operating data

Main power supply

Main power connection

100 V to 240 V, 50/60 Hz

Gas supply

Manometric pressure of O₂

2.8 to 6.0 bar (or 280 to 600 kPa or 41 to 87 psi)

Physical specifications

Dimensions (W x H x D)

VG70

460mm x 686mm x 512mm (18.11

inches x 27.01 inches x 20.16 inches) 610

Forklift truck

mm x 1429 mm x 675 mm (24.02

inches x 56.26 inches x 26.57 inches) (with pillar)

Weight

VG70

Approx. 15 kg (33 lbs)

Forklift truck

Approx. 25 kg (110 lbs)

Diagonal screen size VG70

12" TFT color touchscreen

Ports of entry/exit

– 1 external RS232 connector (9 pins)

– 2 USB ports

– Real-time VGA output

– 1 RJ 45 Ethernet connector

– Nurse call