



progetti[®]
Medical Equipment Solutions

PG VENT

Intensive Care Ventilator



PG VENT provides the excellent performance of non-invasive and invasive ventilation.



ICU VENTILATOR



PG VENT

TECHNICAL SPECIFICATIONS



Dimensions: 327x 310x 493 mm
Dimensions with trolley included: 664x 600x1520 mm
Weight: around 12.0 kg, around 33.0 kg (with trolley)

Display

Display Size: 18.3" Color active matrix TFT touch
Display Resolution: 1080 x 1980 pixels
Brightness: Adjustable

Ventilation Specifications

Patient Type: Adult, Pediatric, optional Neonatal
Invasive Ventilation Modes: VCV, PCV, VSIMV, PSIMV, CPAP/PSV, PRVC, V + SIMV, BPAP, APRV, Apnea
Non-invasive Ventilation Modes: CPAP, PCV, PPS, S/T, VS

Controlled Parameters

O₂%: 21-100% (increments of 1%)
VT: Adult: 100-2000 ml (increments of 10 mL) /
Pediatric: 20-300 ml / Optional Neonate: 2 ml (f:150bpm)
f (Ventilation frequency): 1-80 bpm
fSIMV: 1-80 bpm
I:E range: 4:1-1:10 (increments of 0.5)
Tinsp (Inspiratory time): 0.20-10 s (increments of 0.05 s)
Tslope: 0-2.00 s (increments of 0.05 s)
Thigh: 0.2-30 s (increments of 0.1 s)
Tlow: 0.2-30 s (increments of 0.1 s)
Tpause: 5-60% (increments of 1%) off
ΔPinsp: 0-60 cm H₂O (increments of 1cmH₂O)
ΔPsupp: 0-60 cm H₂O (increments of 1cmH₂O)
Phigh: 0-60 cm H₂O (increments of 1cmH₂O)
Plow: 1-45 cm H₂O (increments of 1cmH₂O)
PEEP: 1-45 cm H₂O (increments of 1cmH₂O), off
Flow trigger: 0.5-15 L/min (increments of 0.1 L/min)
Pressure trigger: -10 to -0.5 cm H₂O (increments of 0.5 cm H₂O)
Exp% (Expiration termination level): 10-85% (increments of 5%), Auto
CPAP: 4-25 cm H₂O (increments of 1 cm H₂O)
EPAP: 4-25 cm H₂O (increments of 1 cm H₂O)
IPAP: 4-20 cm H₂O (increments of 1 cm H₂O)
Rise time: 1-5 (increments of 1)
Ramp time: 5-45 min (increments of 5 min), Off
Min P (VS minimum IPAP): 5-30 cm H₂O (increments of 1 cm H₂O)
Max P (VS maximum IPAP): 6-40 cm H₂O (increments of 1 cm H₂O)
Max P (PPV maximum pressure limit): 5-40 cm H₂O (increments of 1 cm H₂O)
Max V (PPV maximum volume limit): 200-3500 mL (increments of 5 ml)
Max E: 0-100 cm H₂O/L (increments of 1 cm H₂O/L)
Max R: 0-50 cm H₂O/L (increments of 1 cm H₂O/L)
PPV%: 0%-100% (increments of 1%)

Apnea Ventilation

Vtvpnea: Adult: 100-2000 mL (increments of 10 mL)
Pediatric: 20-300 mL
ΔPapnea: 5-60 cm H₂O (increments of 1 cm H₂O)
Fapnea: 1-80 bpm (increments of 1 bpm)
Apnea Tinsp: 0.20-10 s (increments of 0.05 s)

Sigh

Sigh Switch: On, Off
Interval: 20 s-180 min
Cycles Sigh: 1-20 (increments of 1)
Δint.PEEP: 1-45 cm H₂O (increments of 1 cm H₂O), Off

Synchronized Tube Resistance Compliance

Tube Type: ET Tube, Trach Tube, Disable STRC
Tube I.D.: Adult: 5.0-12.0 mm
Pediatric: 2.5-8.0 mm (increments always of 0.5 mm)
Compensate: 0-100% (increments of 1%)
Expiration Compliance Switch: On, Off

Monitored parameters

Numeric:

Paw	Oxygen concentration	WOB
Ppeak	VT _e spn	RSBI
Pplat	VT _e /IBW	NIF
Pmean	F	P 0.1
PEEP	F _{total}	PEEPi
Insp Flow	F _{mand}	PIP
Exp Flow	F _{spn}	EPAP
MV	Re	Pt. Trig
MV leak	Ri	Pt. Leak
MV spn	C _{dyn}	Tot. Leak
V _{te}	C _{stat}	Continuous Flow (O ₂ Therapy)
VTi	RC _{exp}	

Real time Graphics:

Pressure - time waveforms	Paw - volume Loop
Flow - time waveforms	Flow - time Loop
Volume - time waveforms	Paw - flow Loop

Alarm settings: Tidal Volume, Minute Volume, Airway pressure, Frequency, Inspired Oxygen (FiO₂), Apnea time.

Trend

Type: Tabular, Graphic
Length: 72 hours
Content: Monitor Parameters, Setting Parameters

O₂ Therapy

Controlled Parameters
O₂%: 21-100% (increments of 1%)
Flow: 4-60 L/min
Controlled Accuracy
O₂%: ±(3 vol.% +1% of setting)
Flow: ±(2 L/min +10% of setting) (BTPS)

Environmental specifications

Temperature: 5-40°C (operating); -20 to 60 °C (storage and transport, O₂ sensor: -20 to 50 °C)
Relative Humidity: 10-95% (operating); 10-95% (storage and transport)
Barometric Pressure: 62-106 kPa (operating)
50-106 kPa (storage and transport)

Power Battery Backup

External AC power supply
Input voltage: 100-240 V
Input frequency: 50/60 Hz
Input current: 2.5 A Max
Fuse: T2.5 AH/250 V
Internal battery
Number of batteries: One or Two (Optional)
Battery type: Build-in Lithium-ion battery, 11.25 VDC, 6400 mAh
Battery run time: 3 hours (Powered by one new fully-charged battery in standard working condition)

Others

Communication interface: RS-232, Ethernet, USB port, CO₂ calibration connector, nurse call
Gas supply: O₂
Pipe connector: NIST (DISS optional)
Gas supply pressure: 280-600 kPa



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ISO 13485:2016 CERTIFICATION



Quality system ISO certified

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