



progetti
Medical Equipment Solutions

PG V5000D

Intensive Care Ventilator



15" color LCD, touch-screen setting, big front display, free changeable angles of views
Functions provided for adult and pediatric patients in ICU through touch screen and navigation knob

Various ventilation modes - VCV, PCV, SIMV+VCV, SIMV+PCV, SPONT, NPPV, and DualPAP (optional), PRVC (optional)

Useful controlling parameters are shown in each ventilation mode

The main controlling parameters can be adjusted directly through main screen.

Special functions on main membrane buttons: Alarm Silence, Alarm Reset, Lock, Ins. Hold, Exp. Hold, 100% O₂, manual inspiration and Standby

Excellent performance of proportional valves combining the air and oxygen

Powerful extended function with optional CO₂&SpO₂ monitoring (optional)

Expiration valves can be disassembled for cleaning and sterilization in order to preclude cross infections



ICU VENTILATOR



PG V5000D

TECHNICAL SPECIFICATIONS



Patients: pediatric (>5kg) and adult
Ventilation mode: VCV, PCV, SIMV+VCV, SIMV+PCV, NPPV, SPONT.
Optional: dual-PAP, PRVC
Special functions: backup ventilation, inspiratory hold, expiratory hold, 100% O₂ (2 min.) and manual inspiration
Free Flow - Unique Mode, provide tidal volume according to patient's physical need. Set under VCV or SIMV+VCV model, square (adaptive flow) or Ramp (PC-VG) adoptable
Free breathing valve
Simultaneous display of 4 waveforms and 2 Loops
Active exhalation valve with anti-condensation design
Safety: Safety relief valve for gas supply, safety relief value of 12.5 kPa for airway, expiration safety valve

Setting parameters

VT: 20 - 2000 mL
F: 1 - 100 bpm
Tinsp: 0.1 - 10s
Pressure trigger: -20 - 0 cmH₂O
Flow trigger: 0.5 - 20 L/min
Pressure control: 5 - 70 cmH₂O
Pressure support: 0 - 70 cm H₂O
High pressure (optional): 5 - 70 cmH₂O
Low pressure (optional): 0 - 50 cmH₂O
FIO₂: 21% - 100%
PEEP: 0 - 50 cmH₂O

Monitoring parameters: 19 monitored parameters - VTi, VTE, MV, MVspn, f, fspn, I:E, Ppeak, PEEP, Pmean, Pplat, Pmin, FIO₂, C, R. Optional: PR, SpO₂%, EtCO₂ InCO₂
Waveform: pressure time, flow time, volume time.
Loop: pressure-volume, flow-volume, flow-pressure
Optional: volume EtCO₂

Membrane button: 100% O₂ (2mins); inspiration hold, expiration hold, manual inspiration, Lock display, Alarm silence, alarm reset, Freeze button on touch-screen.

Extended functions:

CO₂ module (optional) Masimo Irma CO₂ Module
Monitoring range: 0 - 99 mmHg.
Alarm range: high limit: 1 - 99 mmHg.
Low limit: OFF; 0 - 98 mmHg.

SpO₂ module (optional)
SpO₂ range: 0 - 100%
Pulse rate range: 30 - 250 bpm
SpO₂ alarm range: 80% - 100%

Alarm settings: low tidal volume, high/low limit of minute ventilation, high/low limit of frequency, high/low limit of FIO₂, high/low limit of airway pressure, high continuous airway pressure, apnea, O₂ supply pressure high/low, Air supply pressure high/low, battery low capacity, and battery exhausted.
Alarm mute: < 120 ms

Calibration and test mode: inner components like valves and sensors are tested and calibrated automatically by the software system able to verify their stability and performances.

Physically

Screen: 15" TFT LCD color screen
Communication connector: RS232, debugging interface
Dimension: Host: 630x620x720mm; Trolley: 225x805x555mm
Net weight: 45 kg
Power: 100-240 VAC, 50/60 Hz, 1A (Max.)
Battery: Minimum 120 mins

Standard configuration:

Main unit ventilator, 15" TFT LCD touch-screen, nebulizer, mechanical arm, one set of reusable adult circuit.

Optionals:

Humidifier, air compressor, SpO₂ module, CO₂ Module



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ISO 13485:2016 CERTIFICATION

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Quality system ISO certified

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