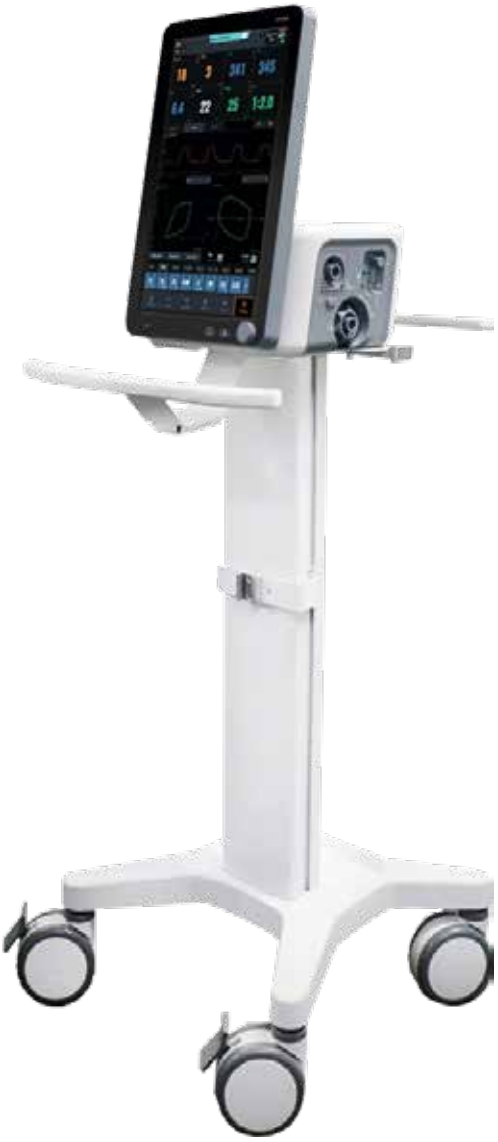
progetti®
Medical Equipment Solutions

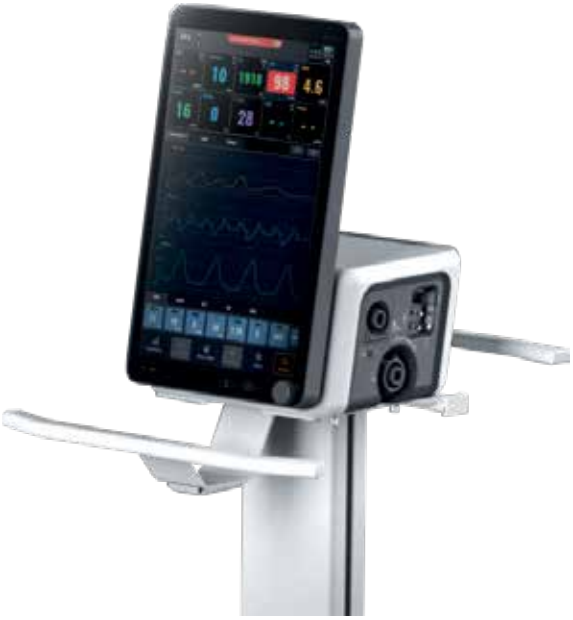
PG VENT

Lung Ventilator



VENTILATOR

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



OPERATING ROOM

INTENSIVE CARE

PG VENT

TECHNICAL **SPECIFICATIONS**

Size: 327x 310x 493 mm
Size with trolley included: 664x 600x1465 mm
Weight: around 12.0 kg, around 33.0 kg (with trolley)

DISPLAY
Size: 18.5"TFT, color LCD, touchscreen
Resolution: 1920 x 1080 pixels
Brightness: Adjustable

VENTILATION SPECIFICATIONS
Patient Type: Adult, Pediatric, Infant
Invasive Ventilation Modes: VCV, PCV, VSIMV, PSIMV, PRVC, V + SIMV, CPAP/PSV, BPAP, APRV, Apnea
Non-Invasive Ventilation Modes: CPAP, PCV, PPS, S/T, VS (in single-limb); PCV, PSIMV, CPAP/PSV, BPAP, APRV, nCPAP, nCPAP-PC, nCPAP-PS (in dual limb)

CONTROLLED PARAMETERS
VT: Adult: 100-2000 mL, Pediatric: 20-300 mL, Infant: 2-300 mL
(Resolution: ≥1000: 50 mL, ≥300 and <1000: 10 mL, ≥10 and < 300: 1 mL, <10: 0.1 mL)
O_2%: 21-100% (Resolution of 1 vol%)
f (Ventilation frequency): 1-80 bpm for Adult/Paediatric, 1-150 bpm for Infant, (Resolution: 1 bpm)
f-SIMV: 1-80 bpm for Adult/Paediatric, for 1-150 bpm Infant, (Resolution: 1 bpm)
I:E range: 1:10-4:1 (Resolution for Adult/Paediatric 1:2, for Infant 1:3)
T-insp (Inspiratory time): 0.10-10 s (Resolution: 0-1.00: 0.01 s, ≥1.00: 0.05 s)
T-slope: 0-2 s for Adult/Paediatric, 0-0.6 s for Infant (Resolution: 0-1.00: 0.01 s, ≥1.00: 0.05 s)
T-high: 0.2-30 s for Adult/Paediatric, 0.1-30 s for Infant (Resolution: 0-1.00: 0.01 s, ≥1.00: 0.05 s)
T-low: 0.2-30 s (Resolution: 0-1.00: 0.01 s, ≥1.00: 0.05 s)
T-pause: 5-60% (Resolution of 5%), Off
ΔP-insp: 5-80 cmH_2O for Adult/Paediatric, 3-45 cmH_2O for Infant (Resolution of 1 cmH_2O)
ΔP-supp: 0-80 cmH_2O for Adult/Paediatric, 0-45 cmH_2O for Infant (Resolution of 1 cmH_2O)
P-high: 0-80 cm H_2O for Adult/Paediatric, 0-45 cmH_2O for Infant (Resolution of 1 cmH_2O)
P-low: 0-45 cm H_2O for Adult/Paediatric, 0-25 cmH_2O for Infant (Resolution of 1 cmH_2O)
PEEP: off, 1-45 cmH_2O for Adult/Paediatric, 1-25 cmH_2O for Infant (Resolution: 1 cmH_2O)
F-trigger: 0.5-15 L/min for Adult/Paediatric, 0.1-5 L/min for Infant (Resolution of 0.1 L/min)
P-trigger: -10 to -0.5 cmH_2O for Adult/Paediatric, -5 to -0.1 cmH_2O Infant (Resolution of 0.5 cmH_2O)
Exp% (Expiration termination level): 10-85% (Resolution of 5%), Auto
CPAP: 4-25 cmH_2O (Resolution: 1 cmH_2O)
EPAP: 4-25 cmH_2O (Resolution: 1 cmH_2O)
IPAP: 4-40 cmH_2O (Resolution: 1 cmH_2O)
Rise time: 1-5 (Resolution of 1)
Ramp time: 5-45 min (Resolution of 5 min), Off
P-Min (VS): 5-30 cmH_2O (Resolution: 1 cmH_2O)
P-Max (VS): 6-40 cmH_2O (Resolution: 1 cmH_2O)
P-Max (PPS): 5-40 cmH_2O (Resolution: 1 cmH_2O)
V-Max (PPS): 200-3500 mL (Resolution: 5 mL)
E-Max: 0-100 cmH_2O/L (Resolution: 1 cmH_2O/L)
R-Max: 0-50 cmH_2O/L/s (Resolution: 1 cmH_2O/L/s)
PPV%: 0-100% (Resolution: 1%)

APNEA VENTILATION
ΔP-apnea: 5-80 cmH_2O for Adult/Paediatric, 3-45 cmH_2O for Infant (Resolution of 1 cmH_2O)
VT-apnea: Adult: 100-2000 mL, Pediatric: 20-300 mL, Infant: 2-300 mL
(Resolution: ≥1000: 50 mL, ≥300 and <1000: 10 mL, ≥10 and < 300: 1 mL, <10: 0.1 mL)
f-apnea: 1-80 bpm for Adult/Paediatric, 1-150 bpm for Infant (Resolution of 1 bpm)
Apnea T-insp: 0.2-10 s for Adult/Paediatric, 0.3-3 s for Infant (Resolution: 0-1: 0.01 s, ≥1: 0.05 s)

SIGH
Δint.PEEP: 0-45 cmH_2O for Adult/Paediatric, 0-40 cmH_2O for Infant (Resolution of 1 cm H_2O)
Cycle: 1-20
Interval: 20 s - 180 min
Switch: On, Off

SYNCHRONIZED TUBE RESISTANCE COMPENSATION
Tube Type: ET Tube, Trach Tube, Disable STRC
Preconfigured tube diameter: Adult: 8.0 mm, Pediatric: 5.0 mm, Infant: 3.0 mm
Compensation: 0-100% (Resolution of 1%)
Switch: On, Off

MONITORED PARAMETERS
Numeric:

Paw	f-total	V'alv
Ptrachea	f-mand	slopeCO_2
Flow	f-spn	V'CO_2
Flow (nCPAP/nCPAP-PC)	I:E	VeCO_2
Insp Flow	FiO_2	ViCO_2
Volume	Re	E-dyn
P-peak	Ri	VDaw
P-plat	C-dyn	VDaw/VTe
P-mean	C-stat	PIP
PEEP	RC-exp	EPAP
MV	WOB	VT
MV-leak	RSBI	f
MV-spn	NIF	Pt. Trig
Vte	P0.1	Ti/Ttot
VTi	O_2%	Pt. Leak
Vte-spn	PEEPi	Tot. Leak
VTe/IBW	Vtalv	

Real time Graphics:

Pressure - time waveforms	P_{aw} - volume Loop
Flow- time waveforms	Flow - time Loop
Volume - time waveforms	P_{aw} - flow Loop

Alarm settings: Low PEEP, Patient Circuit Occluded, High/Low Oxygen, Running on Internal Battery, Loss of Power, High/Low Pressure, High/Low Tidal Volume, High/Low Minute Volume, EtCO_2 too high/low, High/Low frequency, Apnea, etc.

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

O2 THERAPY
Controlled Parameters
O_2%: 21-100% (Resolution of 1 vol%, accuracy ±3 vol.% or ±10% of set value)
Flow: Adult/Paediatric: 2-60 L/min, Infant: 2-12 L/min (Resolution 1 L/min, accuracy ±2 L/min or ±10% of set value

ENVIRONMENTAL CONDITIONS
Temperature: 5-40 °C (operating); -20 to 60 °C (storage and transport)
Relative Humidity: 10-95 % (operating); 10-95 % (storage and transport)
Atmospheric Pressure: 62-106 kPa (operating); 50-106 kPa (storage and transport)

POWER SUPPLY
External AC power supply
Input voltage: 100-240 V_{AC}
Input frequency: 50/60 Hz
Input current: 2.5-1.1 A
Fuse: T3.15 AH/250 V
Internal battery
Number of batteries: One or Two (Optional)
Battery type: Lithium-ion battery, 14.4 V_{DC}, 6900 mAh
Battery run time: 3 hours (with new fully-charged battery)

OTHERS
Communication interface: Ethernet, RS-232, USB, HDMI and CO_2 calibration connector, nurse call
Gas supply: O_2
Pipe connector: NIST or DISS
Gas supply pressure: 280-600 kPa

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