

VG70

TECHNICAL DATA



Patient type: Adult and pediatric patient

Ventilation modes: VCV(A/C)
PCV(A/C)
PRVC(optional)
SIMV(VCV)+PSV
SIMV(PCV)+PSV
SIMV(PRVC)+PSV
SPONT/CPAP+PSV

BIVENT/APRV+PSV(optional)

NIV/CPAP

NIV-T

NIV-S/T

Enhancements:

Apnea ventilation

Lung mechanic

Pressure and Flow trigger

Automatic Tube Compensation (ATC)

Smart suction

Manual breath

Insp/Exp hold

Waveform freeze

Nebulization

Non-invasive ventilation (NIV)

etCO₂ measurement

Parameter settings

Ventilation frequency (f)VCV: 1-80/min (adult)

2-80/min (pediatric)

NIV Ventilation frequency (f): 4-20/min (adult)

| | | |
|---|-----------------------------|--------------------|
| | 4-40/min | (pediatric) |
| Inspiratory time (Ti): | 0.2-9 s | (adult) |
| | 0.2-5 s | (pediatric) |
| Tidal volume (VT): | 50-2000ml | (adult) |
| | 20-300ml | (pediatric) |
| Tpause: | 0-4 s | (adult) |
| | 0-2.5 s | (pediatric) |
| Ventilation frequency (f)SIMV: | 1-40/min | |
| Inspiratory pressure (P _{insp}): | 5-70 cmH ₂ O | |
| P _{supp} : | 0-70 cmH ₂ O | |
| P _{supp} NIV: | 0 to (50-PEEP) | cmH ₂ O |
| PEEP: | 0-35 cmH ₂ O | |
| PEEP in NIV: | 2-20 cmH ₂ O | |
| CPAP in NIV: | 2-20 cmH ₂ O | |
| Rise time (Slope): | 0-2 s | |
| O ₂ concentration (FiO ₂): | 21%-100% | |
| Trigger sensitivity: | 0.5 to 20 L/min | (Flow trigger) |
| | -20 to 0 cmH ₂ O | (Pressure trigger) |
| Exp. sensitivity(% of peak flow): | 5%-80% | |

BIVENT

Thigh: 0.2-30 s

Flow: 0.2-30 s
Phigh: 5-60 cmH₂O
Plow: 0-35 cmH₂O

Automatic Tube Compensation (ATC)

Inner tube diameter: 5-12mm (adult)
2.5-8mm (pediatric)
Tube type: Endotracheal tube ET
Tracheostomy tube Trach
Degree of compensation: 0-100%

Measured values displayed

Airway pressure measurement:

Plateau pressure (P_{plat})
Positive end-expiratory pressure (PEEP)
Peak inspiratory pressure (P_{peak})
Mean airway pressure (P_{mean})
Min. airway pressure (P_{min})

Flow measurement:

Expiratory minute volume (M_{Ve})
Spontaneous expiratory minute volume (M_{Vespont})
Inspiratory tidal volume (V_{Ti})
Expiratory tidal volume (V_{Te})

Frequency measurement:

Total respiratory frequency (f_{total})

Spontaneous respiratory frequency (f_{spont})

O₂ measurement:

Inspiratory O₂ concentration (F_{iO_2})

CO₂ measurement

End-expiratory CO₂ concentration ($etCO_2$)

Displayed calculated values

Compliance (C)

Resistance (R)

leakNIV

RSBI

WOB

Tispont

I:E

V_{daw}

PEEP_i

T_c

Elastance

| | | |
|------------------------|---------------------------|-------------------------------|
| Curve displays: | Airway pressure (t) (Paw) | -20 to 100 cmH ₂ O |
| | Flow (t) | -180 to 180 L/min |
| | Volume (t) | 0 to 3000ml |
| | CO ₂ (t) | 0 to 80 cmH ₂ O |
| | Pressure-Volume loop | |
| | Pressure-Flow loop | |
| | Flow-Volume loop | |

Alarms

| | |
|---|-----------------------|
| Expiratory minute volume (MVe) | High / Low |
| Airway pressure (Paw) | High / Low |
| Expiratory tidal volume (Vte) | low |
| PEEP | High / Low |
| Insp. O ₂ concentration (FiO ₂) (automatic) | High / Low |
| End - expiratory CO ₂ concentration (etCO ₂) | High / Low |
| Respiratory rate (f) | High |
| Apnea alarm time | 10 to 60 seconds, Off |
| Inspiration duration | High |
| Oxygen sensor failure | Yes |
| O ₂ supply pressure | Low |
| AC failure | Yes |

| | |
|--------------------------|---------------|
| Low battery | Yes |
| Limited battery capacity | Yes |
| Occlusion | Yes |
| CO2 sensor | Error/Failure |
| Leakage out of range | Yes |
| Fan block | Yes |

Performance data

Control principle:

Electronically driven and electronically controlled

Nebulization: 30min

Suction Oxygen enrichment: Before aspiration of sputum 3 min
Post aspiration of sputum 2min

Base flow: 5-25 L/min

Max flow: 180 L/min

Leakage compensating flow: 60L/min

Operating data

Main power connection: 100V-240V, 50/60Hz

Power consumption:

110-120VAC: 2A,200VAC (Ventilator only)

10A (Ventilator plus Auxiliary Outlets)

220-240VAC: 1A,200VAC (Ventilator only)

8A (Ventilator plus Auxiliary Outlets)

Gas supply:

O2 gauge pressure 280-600KPa

Language:

Chinese, English, Spanish, Polish, Turkish, Russian

Other languages can be customized.

Physical Specifications

Dimensions (W*D*H) : VG70 350mm*460mm*415mm

Cart 547mm*675mm*950mm

Weight: VG70 15kg

Cart 25kg

Diagonal screen size: 12"TFT color touch screen

Input / Output ports: 2 USB ports

Real-time VGA output

1 RJ 45 Ethernet connectors

Nurse call

CO2 port