VG70

Ventilator

TECHNICAL
DATA

AEONMED
Reliable Quality Thoughtful Service

VG70 is a critical care ventilator suitable for intra-hospital transport and sub-acute care of infants, children and adults. VG70 combines the advantages of a flexible noninvasive ventilator with a full-featured invasive ventilator. It has comprehensive functionality and a user-friendly design. VG70's internal turbine provides needed air pressure with a low sound level and, along with its internal batteries, prepare it fully for mobile use.

Patient Type

Adult, Child (>3 Kg)

Ventilation Modes

VCV	SIMV(VCV)+PSV
PCV	SIMV(PCV)+PSV
PRVC	SIMV(PRVC)+PSV
SPONT/CPAP+PSV	BIVENT/APRV+PSV
NIV-T	NIV/CPAP
NIV-S/T	

Parameter Setting

Tidal volume (Vt)	50-2000 mL (Adult) 20-300 mL (Child)
Compliance compensation	ON/OFF
Pinsp	5-70 cmH_2O
Psupp	0-70 cmH_2O
CPAP in NIV	2-20 cmH_2O
PEEP	0-35 cmH_2O
PEEP in NIV	2-20 cmH_2O
Phigh	5-60 cmH_2O
Plow	0-35 cmH_2O
Psens	-20-0 cmH_2O
Vsens	0.5-20 L/min
Tube compensation (%)	0-100
ATC tube type	ET/TT
Esens	5-80 %
Inspiratory time (Ti)	0.2-9 s (Adult) 0.2-5 s (Child)
Backup ventilation Tinsp	0.2-9 s (Adult) 0.2-5 s (Child)
Pause time (Tpause)	0-4 s (Adult) 0-2.5 s (Child)
Rising time (Tslope)	0-2 s
Thigh	0.2-30 s
Tlow	0.2-30 s
Frequency (f)	1-80 bpm
NIV ventilation rate	4-20 bpm (Adult) 4-40 bpm (Child)
SIMV ventilation rate	1-40 bpm
I:E ratio	1:10-4:1
Nebulizer time	30 min or 45 min
O_2 concentration	21-100 %

Enhancements

Apnea back-up ventilation	
Automatic tube compensation (ATC)	
HFT	Suction
Standby	Screen lock
Print screen	Alarm silence
Nebulization	Expiratory hold
Lung mechanics	Lung recruitment
Manual breath	Waveform freeze
Inspiratory hold	$EtCO_2$ measurement
Non-invasive ventilation	Leakage compensation

Monitoring Data

Ppeak	Vti	Rexp	Tispont
Pplat	Vte	Cdyn	FiO_2
PEEP	MVe	RSBI	$FiCO_2$
Pmean	MVespont	Vdaw	$EtCO_2$
Pmin	ftotal	I:E	$Leak_{NIV}$
fspont	WOB		

Lung Mechanics

Rinsp	PEEPi	Cstatic
Elastance	Tc	

Parameter Monitoring Range

VTi/VTe	0-4000 mL
MVi/MVe	0-60 L/min
FiO_2	18-100 %
Paw	-20-80 cmH_2O

Alarm Setting

High Paw	5-80 cmH_2O
High MVe	1-60 L/min, OFF
Low MVe	OFF, 0.1-40 L/min
Apnea time	10-60 s, OFF
Frequency (f)	10-80 bpm, OFF
Low PEEP	OFF, 1-35 cmH_2O
High $EtCO_2$	0.1-13.3 %
Low $EtCO_2$	0.1-13.2 %, OFF

Waveform Display

Flow-T	Paw-T	Volume-T	$EtCO_2$-T
V-F Loop	P-V Loop	F-P Loop	

Other Settings

Alarm volume	20, 40, 60, 80, 100 %
Trend	72 H
Log	3000 messages
Screen brightness	Day, Night

Language

Chinese	English	Other languages

Environmental Requirements

Temperature	
Operating condition	5 °C-40°C
Storage condition	-20°C-60°C
Relative humidity	
Operating condition	5-95%
Storage condition	≤95 %
Barometric pressure	
Operating condition	70-106 kPa
Storage condition	70-106 kPa

Electrical

AC voltage	100-240 V, 50/60 Hz
DC voltage	12-24 V,
One battery run time	Minimum 2 hours
Two batteries run time	Minimum 4 hours

Gas Supply

Supply pressure (O_2)	280-600 kPa (41-87 psi)
Connection standard	DISS, NIST
Low-flow oxygen inlet	≤600 kPa (pressure) ≤15 L/min (flow)

Physical Specifications

Dimension (main unit)	322*375*366 mm
Main unit weight	12.5 kg
Cart weight	25 kg
Screen size	12" color touch screen
Communication ports	Nurse call port Ethernet port RS-232 port CO_2 port USB port VGA port

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Reliable Quality Thoughtful Service
HQ: 11B2, Fengtai Science Park, Beijing, China (100070)
Science Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province, China (065201)
TEL: +86-10-5841 1198 FAX: +86-10-6371 8989
Http: //www.aeonmed.com E-mail: marketing@aeonmed.com

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