

VE - 3810

VENTILATOR



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► **ATL Ventilator**

ATL's VE - 3810 is a critical care ventilator suitable for intra-hospital transport and sub-acute care of infants, children and adults. ATL combines the advantages of a flexible noninvasive ventilator with a full-featured invasive ventilator. It has comprehensive functionality and a user friendly design. snorva 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	SI MV(VCV)+PSV
PCV	SI MV(PCV)+PSV
PRVC	SI MV(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 ₂ O
Psupp	0-70cmH ₂ O
CPAP in NIV	2-20 cmH ₂ O
PEEP	0-35 cmH ₂ O
PEEP in NIV	2-20 cmH ₂ O
Phigh	5-60 cmH ₂ O
Plow	0-35 cmH ₂ O
Psens	-20-0 cmH ₂ O
Vsens	0.5-20 t/rnin
Tube compensation(%)	0-100
ATC tu be 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
Rising time (Tslope)	(Child)
Thigh	0-2 s
Tlow	0.2-30 s
Frequency (f)	0.2-30 s
NIV ventilation rate	1-80 bpm 4-20 bprn (Adult)
SIMV ventilation rate	4-40 bpm (Child)
I:Eratio	1-40 bpm
Nebulizer time	1:10-4:1
O2 concentration	30 min or 45 min 21-100 %

►► Enhancements

Apnea back-up ventilation	
Automatic tube compensation (ATC)	
HFT	Suction
Standby	Screen lock
Print screen	Alarm silence
Nebullz.ation	Expiratory hold
Lung mechanics	Lung recruitment
Manual breath	Waveform freeze
Inspiratory hold	EtCO2 measurement
Non-invasive ventilation	Leakage compensation

►► Monitoring Data

Ppeak	Vti	Rexp	Tispont
Pp lat	Vte	Cdyn	O2
PEEP	MVe	RSBI	FiCO2
Pmean	MVespont	Vdaw	EtCO2
Pmin	ftotal	I:E	LeakN1v
fspont			

►► Lung Mechanics

Rinsp	P,EEPi	Cstatic
Elastance	Tc	

►► Parameter Monitoring Range

VT i/VTe	0-4000 m L
MVe	0.1-60 L
FiO2	18-100 %
Paw	-20-80 cmH2O

►► Alarm Setting

High Paw	5-80 cmH ₂ O
High MVe	1-60 L/min, OFF
Low MVe	OFF, 0.1-40 L/min
Apnea time	10-60 s, OFF
Frequency lf)	10-80 bpm, OH
Low PEEP	OFF, 1-35 cmH ₂ O
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
English		

►► Environmental Requirements

Temperature	
Operating condition	10°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
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)	375*421*300 mm
Total weight	42.5 kg
Cart weight	25 kg
Screen size	12" color touch screen
Communication ports	Nurse call port
	Ethernet port RS-232 port CO2 port USB port VGA port

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