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The Art of Breathing

www.atlantamed.co.uk

smart modes  
capnography  
neo to adult

ventilator cloud data monitoring



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## Technical Specifications

<b>User Interface</b>	High quality and smooth graphical user friendly interface			
	Type	Projected Capacitive Touch		
	Size	18.5"		
	Resolution	1366x768		
<b>Ventilator Operating</b>	Type	Compressed Air Ventilator		
	Patient Range	Neonate, Pediatric, Adult		
	Ventilation Type	Invasive & Non Invasive		
	Flow Sensor	Distal and Proximal*		
	Ventilation Modes	Volume Controlled :VCV, VSIMV+PS Pressure Controlled :PCV, PSIMV+PS, NIV, PRVC, TCPL, NSIMV+PS Dual Control Modes : PSV(MVguaranteed), PSV(VTguaranteed), APRV CPAP/PS CPAP, PSV, CPAP+CF		
<b>Adjustable Parameters</b>	Frequency	1 - 150 bpm	Pressure Trigger	0.2 - 20 cmH2O
	Tidal Volume	2 - 2500 ml	Flow Trigger	0.2 - 15 lpm
	Insp. Pressure	2 - 100 cmH2O	Exp. Trigger	5 - 80%
	Insp. Time	0.1 - 3.0 s	Volumetric Sigh	On/Off
	PEEP	0 - 50 cmH2O	Insp. Hold	On/Off
	Rise Time	0.1 - 0.6 s	Exp. Hold	On/Off
	Flow Shape	Square or Decreasing	Nebulizer	On/Off
	Pressure Support	0 - 100 cmH2O	100% Oxygen	On/Off
	Insp. O2	21 - 100%		
	<b>Respiratory Mechanics</b>	Auto-PEEP	RC Measure	Trapped Volume
P0.1		PI(max)	PV Flex	Vd/Vt Physiologic*
<b>Additional Features</b>				
Capnography* Integrated Air Compressor Volume correction according to patient circuit compliance Leak compensation available in all operative's modes Body temperature volume correction(BTPS) Altitude compensation for volume correction Tidal Volume Setting based on Ideal Body Weight(IBW)				
<b>Pneumatic Specifications</b>	Inlet Range	3.5 - 7 bar	Air Inlet Type	DISS Male 3/4"
	(Air and Oxygen)	50 - 100 Psi	Oxygen Inlet Type	Diss Male 9/16"
<b>Electrical Specifications</b>	Mains Power		Backup Power	
	Power Supply	110 - 220 V	Run Time	≥ 120 min
		50 - 60 Hz	Battery Type	Li-ion
	IEC 601	Class 1, Type B	Life Span	≥ 3 years
	Power Cord	Any Type Available		
<b>Environmental Specifications</b>	Operation		Storage	
	Ambient Temp	10 - 40 C°	Ambient Temp	40 - 70 C°
	Ambient Pressure	507 - 1060 hPa	Ambient Pressure	507 - 1060 hPa
	Relative H	10 - 95 %	Relative Humidity	10 - 95 %
		4700 m		

### 1. Wide Patient Range

Neonate  
Pediatric  
Adult



### 2. Easy to Start

Comprehensive Ventilation Modes and Specifications

#### Modes:

Volume Controlled (VCV, VSIMV+PS)  
Pressure Controlled (PCV, PSIMV+PS, NIV, PRVC, TCPL, NSIMV+PS)  
Dual Control Modes ( PSV(MVguaranteed) PSV(VTguaranteed) APRV )  
CPAP/PS CPAP, PSV, CPAP+CF



### 3. Parameter Settings

Preview Before Apply  
Smart automatic preset setting



### 4. Overall View

Monitor most important measures simple and friendly



### 5. Respiratory Mechanics

Fully Functional Respiratory Mechanics Measurements  
Auto-PEEP, RC Measure, Trapped Volume, Slow Vital Capacity,  
P0.1, PI<sub>max</sub>, PV Flex, V<sub>D</sub>/V<sub>T</sub> Physiologic



### 6. Trend

6 Months Patient Data  
Record and Review All Measurements Real Time up to 6 months



### 7. Monitoring

Swipe Pages Technology  
Peak, Plateau, Mean, PEEP  
I : E Ratio Current  
Expired Tidal volume, O2 Percentage  
Inspiratory time (Ti) and Expiratory time (Te)  
Rate : Total rate expressed in breaths per minute  
Expired Minute Volume



### 8. Capnography

ETCO2 : Partial Pressure at the end of expiration  
PECO2 : Mean expired Co2 partial pressure  
Vd/Vt : Ratio between the Serial dead space and the current volume  
Va : Alveolar volume of each breath  
Vd : serial or anatomical Dead space volume of each breath  
Vtco2: Co2 expired volume per breath