Amoul

Emergency and Transport Ventilator

Product Model/Specification & Classification Instruction
Product Model: T5 & T7 with model differences detailed as follows.

Function Items		Model	
		T5	T7
Ventilation mode	IPPV	●	●
	V-A/C	●	●
	V-SIMV	●	●
	P CV	●	●
	P-A/C	●	●
	P-SIMV	●	●
	CPAP	●	●
	CPAP +	✕	○
	BiPPV	✕	○
	APRV	✕	○
	PRVC	✕	○
	PRVC+	✕	○
	BiPPV+	✕	○
	APRV	✕	○
	HFNC	○	○
Other function	Manual	●	✕
	CPR	○	○
	RSA	✕	○
	EtCO2	○	○

Note 1: In this table, "●" stands for standard configuration, "○" for optional configuration, and "✕" for not configurable.
Note 2: In this table, the "+" means PSV is added in this mode.

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New Delhi
Cairo
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Ho Chi Minh City
Santa Fe de Bogota
Jakarta
Surabaya
Sao Paulo

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Table 1 Ventilator's Control Parameters

Control Parameters	Items	Model T5	Model T7
Respiratory frequency	Adjusting range	0,1bpm～120bpm	
	Adjusting step length	1bpm	
	Accuracy	±1Bpm or ±5% whichever is higher	
Inspiration/expiration ratio	Adjusting range	9:1～1:9	59:1～1:99
	Adjusting step length	0.1	
	Accuracy	The 4:1～1:4 range±10% is required; others beyond it are not defined.	
Tidal volume	Adjusting range	50mL～2500mL	20mL～2500mL
	Adjusting step length	5mL	
	Accuracy	±30ml or ±15% whichever is higher	±15ml or±15% whichever is higher
Oxygen concentration	Adjusting range	40%,100%	40%-100% (or option 21%-100%)
	Adjusting step length	/	10%
	Accuracy	±10%(v/v)	
Suction pressure	Adjusting range	5cmH2O～60cmH2O	3cmH2O～60cmH2O
	Adjusting step length	1cmH2O	
	Accuracy	±2cmH2O or ±10% whichever is higher	
Limited airway pressure	Adjusting range	15cmH2O～70cmH2O	
	Adjusting step length	1cmH2O	
	Accuracy	±2cmH2O or±10% whichever is higher	
Trigger pressure	Adjusting range	-20cmH2O～20cmH2O	
	Adjusting step length	1cmH2O	
	Accuracy	±1cmH2O or±10% whichever is higher	
Continuous positive airway pressure/ positive end-expiratory pressure CPAP/PEEP	Adjusting range	0cmH2O～30cmH2O	
	Adjusting step length	1cmH2O	
	Accuracy	±2cmH2O or±10% whichever is higher	
Pressure support	Adjusting range	0,3cmH2O～35cmH2O	
	Adjusting step length	1cmH2O	
	Accuracy	±2cmH2O or±10% whichever is higher	
Trigger flow	Adjusting range		1L/min～15L/min
	Adjusting step length		1L/min
	Accuracy		±1L/min or±15% whichever is higher
Pause time ratio	Adjusting range	0%～80 %	
	Adjusting step length	5%	
	Accuracy	10%	
Pressure increase time	Adjusting range	Slow/Normal/Fast	0.1s～2s
	Adjusting step length	/	0.1s
	Accuracy	/	±0.2s or±20% whichever is higher
Expiration trigger sensitivity	Adjusting range	/	5%～80 %
	Adjusting step length	/	5%
	Accuracy	/	15%
Oxygen inhalation flow rate	Adjusting range	/	2L/min～30L/min
	Adjusting step length	/	1L/min
	Accuracy	/	±1L/min or±15% whichever is higher

Ventilator's Other Performance Indicators

Items	Model	
	T5	**T7**
Max. ventilation flow rate	≥80L/min(@450kPa)	≥150L/min(@450kPa)
Sigh ventilation function	When setting the SIGH function, the tidal volume of sigh ventilation shall be 1.5-2.5 times of the tidal volume preset.	
Inspiration/expiration resistance	When the flow is 30L/min and 60L/min respectively, inspiration/expiration resistance shall be no more than 6cmH2O.	
Spontaneous respiration resistance	When the flow is 15L/min and 30L/min respectively, inspiration resistance shall be no more than 6cmH2O.	
Inspiration safety valve	When ventilator is powered off or out of gas, the patient may breath the fresh air through the safety valve.	
Air circuit system safety pressure	Air circuit maximum safety pressure no more than 100cmH2O	
CPR ventilation function	CPR operation/prompt function supported	
RSA ventilation function	/	RSA ventilation function supported
Manual ventilation function	Ventilation function can be performed manually	/
System noise	65dB A	
Multilingual Switch	Multilingual operation interface is switchable via menu.	

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Ventilator's alarm parameters

Alarm parameters	Items	Model T5	Model T7
Upper limit of minute ventilation	Setting Range	1L/min~80L/min	1L/min~120L/min
	Alarm level	High	
Lower limit of minute ventilation	Setting Range	0L/min~79L/min	0L/min~119L/min
	Alarm level	High	
Upper limit of airway pressure	Setting Range	15cmH2O~70cmH2O	
	Alarm level	High	
Lower limit of airway pressure	Setting Range	0cmH2O~60cmH2O	
	Alarm level	High	
Respiratory frequency alarm — Upper limit	Setting Range	10bpm~125bpm	
	Alarm level	Medium	
Respiratory frequency alarm — Lower limit	Setting Range	/	0bpm~115bpm
	Alarm level	/	Medium
Suffocation alarm time	Setting Range	5~60 s	
	Alarm level	High	
Upper limit of tidal volume	Setting Range	120mL~3000mL	50mL~3000ml
	Alarm level	Medium	
Lower limit of tidal volume	Setting Range	20mL~2400mL	0mL~2400ml
	Alarm level	Medium	
Upper limit of Et-CO$_2$	Setting Range	1mmHg~150mmHg	
	Alarm level	High	
Lower limit of Et-CO$_2$	Setting Range	0mmHg~149mmHg	
	Alarm level	High	
Gas supply pressure alarm — Gas supply pressure low	Alarm voice	Gas supply pressure below 270 kPa	
	Alarm level	Medium	
Gas supply pressure alarm — Gas supply pressure high	Alarm voice	/	Gas supply pressure higher than 600kPa
	Alarm level	/	High
Gas supply pressure alarm — No gas supply pressure	Alarm voice	Gas supply pressure below 70 kPa	
	Alarm level	High	
System power supply alarm — Adapters falling off	Alarm voice	Adapter fails to be connected	
	Alarm level	Medium	
System power supply alarm — Low battery	Alarm voice	Minimum work time between alarm and shutdown is 20min	
	Alarm level	Medium	
System power supply alarm — Insufficient battery capacity	Alarm voice	Battery level is running out	
	Alarm level	High	
Respiratory system integrity alarm	Alarm voice in different alarm levels	When respiratory circuit is off, ventilator shall, within3 respiratory cycles, trigger the "Respiratory System Fails to Connect Alarm", and give off the voice prompt of "Check Respiratory System & Settings". High level.	
Mute alarm	Period	≤120s	

Ventilator's Other Performance Indicators

Monitoring parameters	Items	Model	
		T5	T7
Respiratory frequency	Monitoring range	0bpm〜120bpm	
	Accuracy	±1Bpm or ±5% whichever is higher	
Tidal volume	Monitoring range	0mL〜3000mL	
	Accuracy	±30mL or±15% whichever is higher	±15mL or±15% whichever is higher
Minute ventilation	Monitoring range	0L/min〜80L/min	0L/min〜120L/min
	Accuracy	±0.5L/min or±15%whichever is higher	
Oxygen concentration	Monitoring range	/	40%〜100 %
	Accuracy	/	±10%（v/v）
Airway pressure	Monitoring range	-100cmH2O〜20cmH2O	
	Accuracy	±2cmH2O or±10% whichever is higher	
Et-CO$_2$	Monitoring range	0mmHg〜150mmHg	
	Accuracy	(0〜40 mmHg):±2mmHg; (41〜70 mmHg):±5%; (71〜100 mmHg):±8%; (101〜150 mmHg):±10%	
Wave display	Pressure waveform	Display pressure time waveform	
	Flow waveform	/	Display flow time waveform
	Volume waveform	/	Display volumetric time waveform
Ring diagram display	P-V Ring	/	Display pressure volume ring diagram
	P-V Ring	/	Display flow volume ring diagram
	P-V Ring	/	Display flow pressure ring diagram

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