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Boaray 2000D Ventilator

Technical Sheet



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Technical Specification

Physical Specification		
Dimension and weight		
Dimension (HxWxD)	311×304×292 mm	
Weight	7.5 kilos	
Monitor		
Screen	8.4” TFT display	
Resolution	600*800	
Communication Interface		
Interface of communication	USB port, Ethernet port, RS232	
Ventilation Specifications		
Patient Type	Adult, pediatric	
Ventilation mode	Invasive Modes	A/C(P) A/C(V) SIMV(P)+PS SIMV(V)+PS PRVC CPAP/PSV DualPAP
	Non-Invasive Modes	PCV SIMV(P)+PS CPAP PSV HFNC
Control Parameters		
O2%	21 ~ 100%	
TV (Tidal Volume)	20 ~ 2000 mL	
(frequency ventilatory)	4 ~ 100 bpm	
fsimv (Frequency ventilatory in the SIMV mode)	1 ~ 40 bpm	
Tinsp (Time of inspiration)	0.2 ~ 10.0 s	
Prate (pressure rate rise)	1~5 gears	
Tpause	0 ~ 4 s	
Pinsp	5 ~ 70 cmH2O	
Psupp	5 ~ 70 cmH2O	
Avocado	5 ~ 70 cmH2O	

Pbaja	0 ~ 50 cmH2O	
PEEP	0 ~ 40 cmH2O	
Flow shot	0.5 ~ 20 L/min	
Pressure shot	-20 ~ -1 cmH2O	
Apnea Ventilation		
TVapnea	10 ~ 60 s	
Papnea	5 ~ 70 cmH2O	
hypnea	A/C(V): 4-100 bpm SIMV: 1-40 bpm	
Apnea Tinsp	0.2 ~ 10 sec	
Sigh		
Sigh switch	Deactivate, activate	
Interval	1 ~ 180 min	
Int. PEEP cycle sigh	1 ~ 20	
	0 ~ 20 cmH2O	
Leak compensation		
Peak flow of leak compensation	20% ~ 80%	
Monitoring Parameters		
Pressure range of the airway	0 ~ 100 cmH2O	
Tidal volume range	0 ~ 2500 mL	
Frequency Range	0 ~ 100 bpm	
Minute volume range	0 ~ 50	
Resistance	0 ~ 150 cmH2O/(L/s)	
Accordance	0 ~ 200 mL/cmH2O	
Inspiratory oxygen (FiO2)	21 ~100%	
PEEPi	0 ~ 50 cmH2O	
I:E	4:1 ~ 1:9	
Waveforms	Pressure-time, flow-time, volume-time	
Loops	Pressure-volume, flow-volume, flow-pressure	
Alarm Settings		
Tidal Volume	Low	OFF, 10 ~ 1500 mL
Minute Volume	High	1 ~ 40 L
	Low	OFF, 0 ~ 39 L
Airway pressure	High	1 ~ 80 cmH2O
	Low	0 ~ 40 cmH2O
Frequency	High	1 ~ 100 bpm
	Low	0 ~ 99 bpm
Inspiratory oxygen (FiO2)	High	21 ~ 100%
		OFF, 21 ~ 99%
Alarm time	Under 10 ~ 60 sec	

Apnea		
Other alarms	O2 supply pressure Airway pressure PRVC Continuous high pressure Battery in use	
Log		
Guy	Alarm and settings	
Maximum number	500	
Fan components		
O2 sensor		
Guy	Galvanic fuel cell	
Response time	< 15 sec	
Response time of system	<13 sec	
Operation Data		
Environmental Specification		
Temperature	Operation	+10°C ~ 50°C
	Storage and transportation	-20°C ~ 55°C
Relative Humidity (non-condensing)	Operation	95%
	Storage and transportation	95%
Barometric Pressure (storage)	Operation	50 ~ 106 kPa
	Storage and transportation	50 ~ 106 kPa
Gas supply		
Type of Gas	O2	
Tube connector	NIST	
Supply pressure Gas	280 ~ 600 kPa	
Maximum fLow in case supply only gas	260 L/min	
Gas backup supply (Turbine)		
Maximum output of Low	420kPa	
Outlet pressure Maximum	>40L/min	
Power and Battery Backup		
Input voltage	100 ~ 240 V	
Input frequency	50/60 Hz	
Input current	2 A (Max.)	
Fuse	T2AL/250 V	
Number of batteries	1	
Nominal voltage of battery	11.1 VDC	



Battery Type	Lithium battery
Battery capacity	12000 mAh
Operating time of the battery	120 min
Battery charging time	10

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Shenzhen Prunus Medical Co., Ltd.

9th Floor, Prunus Building, Block C, Funing High-Tech Industrial Zone,
No.71 Xintian Road, Baoan District, Shenzhen, Guangdong, P.R.China

Tel: +86 755 2689 9781

Fax: +86 755 2689 9789

E-mail: international@prunusmedical.com

Web: www.prunusmedical.com