Prunus Boaray600 Anesthesia Machine

Technical sheets



Technical specifications

Physical specificatio	ns		
Dimensions and weight			
Dimensions (HxWxD) 1450mm×1000mm×1330mm			
Weight	103 kg (Without vaporizer and cylinder)		
top shelf			
Weight Limit	34kg		
Width X Depth	578×360mm		
work surface			
Dimensions (HxWxD) 827×5	57×311mm		
Drawer (internal dimension)			
Dimensions (HxWxD) 150×2	98×348mm		
Amount	Standard 2		
Wheels			
Diameter	125mm		
Brakes	All four wheels with brakes		
Ventilation Specifica	tions		
Ventilation modes			
	Manual/Spontaneous Ventilation/Bypass/Standby		
	Ventilation Volume Control (VCV) with PLV function		
	Pressure Control Ventilation (PCV)		
ventilation mode	Synchronized Intermittent Mandatory ventilation: SIMV (V) + PS		
	, SIMV (P) + PS		
	Pressure Support Ventilation (PSV) with apnea support		
Compensation			
Compensation for gas leaks	in the circuit and automatic compliance compensation		
Ventilation Parameter Range			
patient type	Adult, Pediatric, Infant		
Tidal Volume	Pediatric/Infant: 10 ~ 300ml		
nual volume	Adult: 100~1500ml		
	(5 mL increments)		
pinsp	5 ~ 70 cmH2O (1 cmH2O increments)		
plimit	5 ~ 100 cmH2O (1 cmH2O increments)		
	RR in SIMV mode: 1 ~ 40 bpm		
Ratio	Other modes: 4 ~ 100 bpm		
	(1 bpm increments)		
I:E	4:1 ~ 1:10 (0.5 increments)		
Tpause	OFF, 5% ~ 50% (5% increments)		
You	0.1 ~ 10s (0.1s increments)		
flow trigger	1 ~ 15 L/min (1 L/min increment)		
support	5 ~ 60 cmH2O (1 cmH2O increments)		

	10 ~ 100			
Sigh				
Positive End Expiratory Pressure(PEEP)				
Guy	Integrated, electronically controlled			
PEEP	OFF, 4 ~ 30 cmH2O (1 cmH2O increments)			
fan performance	1			
driving pressure	280kPa to 600k	Pa		
Max gas flow 120L/min + fre	sh gas flow			
monitoring parameters	1			
minute volume	0~60L/min			
Tidal Volume	0~2500ml			
Inspired	21%~100%			
oxygen (FiO2)	21%~100%			
Peak airway pressure resp. (0~100cmH2O			
average pressure	0~100cmH2O			
plateau pressure	0~100cmH2O			
l:E	4:1~1:10			
Ratio	0 ~100bpm			
PEEP	0~70cmH2O			
Stamina(R)	0~200cmH2O /(L/s)			
Compliance(C)	0~200ml/cmH2O			
control precision				
	<100ml: ±20ml			
delivery scope	ÿ100 mL: ±20 mL or ±15% of set value, whichever is greater			
delivery pressure	$\pm 2.0 \text{ cmH2O or } \pm 10\% \text{ of set point, which ever is greater}$			
PEEP delivery		±10% of set point, whichever is greater		
flow trigger		5% of set value, whichever is greater		
Monitoring Accuracy				
	<100ml: ±20ml			
Monitoring Volume		L or ±15% of reading, whichever is greater		
Monitoring Pressure ± 2.0 cr		reading, whichever is greater		
PEEP monitoring ± 2.0 cmH	1			
MV Monitoring 1L/min or ±15				
trend chart	, , , , , , , , , , , , , , , , , , ,			
Continuous trending informat	ion for the last 24 h	nours		
alarm logbook				
	first out			
Storage of 500 events, first in alarm settings	i, ill'St UUL			
	High	20 1500 mL OEE		
Tidal Volume		20 ~ 1500 mL, OFF		
	Low High	OFF, 10 ~ 1500 mL		
Volume Minute		1 ~ 40 L/min, OFF		
	Low	OFF, 0 ~ 40L/min		
Airway pressure resp.	High	1~100cmH2O		
,,	Low	0~99cmH2O		

	High	1~100BPM		
RR	Low	0~99BPM		
apnea alarm	10~40s			
inspired oxygen		Low: 21% ~ 100% High: OFF, 18% ~ 99%		
Sustained airway pressure alarm	15s			
subatmospheric pressure alarm	Paw < -10 ci	mH2O		
alarm silence	120 to 0 sec	onds		
language system				
Chinese, English, Spanisl	n, Russian, Turkish.			
fan components				
Flow sensor				
Guy	Variable Orif	ice Flow Sensor		
location	Inspiratory a	nd expiratory port		
Oxygen sensor				
Guy	Galvanic fue	Galvanic fuel cell		
FiO2	21% to 100%	21% to 100%		
precision	± (2.5% frac	± (2.5% fraction volume +2.5% gas level)		
Response time ÿ15 sec				
fan screen				
Display type ColorTFT	ouchscreen, rotat	able		
Screen size 15 inches				
pixel format	1024x768			
Glow	Adjustable			
	All alarm par	ameters (including respiration rate, I /		
parameters	E, VT, MV,	PEEP, MEAN, PEAK, PLAT and O2 concentration,		
	EtCO2, N2C), esthetician gas concentration)		
waveform	PT, FT, VT,	CO2-T		
Spirometry loops PV, F	V and FP			
timer	on screen tir	ner		
communication ports				
Two RS-232C connection	ctors			
VGA				
vaporizers				
Vaporizer		0 Anesthetic Vaporizer		
		Penlon Sigma Delta Anesthetic Vaporizer		
support agents		Halothane, enflurane, isoflurane, sevoflurane		
Position		Standard 2		
mounting mode	Selectatec®	Selectatec®, with interlock function		

Modules MainStream CO2 Module (Masimo IRMA) Displayed numbers EICO2, FICO2 Measurement range 0 - 99 mHg Accuracy ± (0.3 vol%+ 4% of reading) Waveforms / CO2-time loop alarm limits high EICO2 alarm limits 0-99cmH2O low EICO2 Multi-gas Module (Masimo-TMA) measurement mode Mainstream gas monitor Gas monitor CO2, N2O, Halothane, Enflurane, Isoflurane, Sevoflurane, Desflurane, MAC. <20 seconds heating time (concentrations and automatic agent identification runs in 20 seconds) V2O ±(0.3 vol%+ 4% of reading) N2O ±(0.2 vol%+ 5% of reading) N2O ±(0.2 vol%+ 5% of reading) N2O ±(0.2 vol%+ 10% of reading) N2O ±(0.2 vol%+ 5% of reading) HAL, ENF, ISO, SEV, DES ±(0.2 vol%+ 10% of reading) HAL, ENF, SO, SEV, DES ±(0.2 vol%+ 10% of reading) HAL, ENF, ISO, SEV, DES ±(0.2 vol%+ 10% of reading) HAL, ENF, IS	
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o~100% range PR 30~250BPM	
PR 30~250BPM	
30~250BPM	
waveform Pleth	
limit alarm low SpO2 70 ~ 99%	
Electric specifications	
Power and battery backup	
Power input 110 ~ 240 Vac, 50/60 Hz	
Electric socket	
auxiliaries Up to 3 outputs (2 A for each)	
60 minutes for a 1 piece battery (powered by new fully charged batteries with a v	variable
Backup battery temperature of 25 °)	
Battery Type Built-in lithium-ion battery, 11.1 V DC, 7800 mAh	
In case of power and battery failure, it is possible to	
security feature ventilate manual ation, gas supply and agent supply.	

ACGO (Auxiliary Common Gas Outlet) Connector ISO 22mm OD and 15mm ID pipe supply 02, N2O and Air Pipe inlet range 280 to 600 kPa NIST pipe connection Pipe linet range 280 to 600 kPa NIST pipe connection Pipe line Supply Pressure Gauges Guy Guy Mechanic Range 0 to 1MPa precision * (% of the laser reading + 5% of coldination of coldination of the laser reading + 5% of coldination of coldination of coldination of the laser reading +	pneumatic specifica	ions		
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O2 monitoring Method N2O shutdown with O2 pressure loss O2 discharge 25-75L/min O2-N2O link system	precision			
O2 discharge 25~75L/min O2-N2O link system				
O2-N2O link system Guy Mechanic Range O2 concentration not less than 21% Auxiliary O2 flowmeter (optional) Range 0~15L/min Indicator flow tube Mechanical Control Flowmeters O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Gauge Two flow tubes with 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Gauge Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges 	Method	N2O shutdown with O2 pressure loss		
Guy Mechanic Range O2 concentration not less than 21% Auxiliary O2 flowmeter (optional) Precision Range 0~15L/min Indicator flow tube Mechanical Control Flowmeters 02 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges 1.200 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Precision ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	O2 discharge			
Range O2 concentration not less than 21% Auxiliary O2 flowmeter (optional) Range 0~15L/min Indicator flow tube Mechanical Control Flowmeters O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges \pm 10% of the indicated value (for flow between 10% and 100% of full scale) \pm 200 ml/min (for flow below 10% of full scale	O2-N2O link system			
Auxiliary O2 flowmeter (optional) Range 0~15L/min Indicator flow tube Mechanical Control Flowmeters 0 O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges	Guy	Mechanic		
Range 0~15L/min Indicator flow tube Mechanical Control Flowmeters O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with ranges of 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges precision ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	Range	O2 concentration not less than 21%		
Indicator flow tube Mechanical Control Flowmeters Mechanical Control Flowmeters O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with ranges of 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale ± 200 ml/min (for flow below 10% of full scale)	Auxiliary O2 flowmeter (optio	nal)		
Mechanical Control Flowmeters O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with ranges of 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges precision ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	Range	0~15L/min		
O2 Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges Airflow Range Two flow tubes with ranges of 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	Indicator	flow tube		
Airflow Range Two flow tubes with ranges of 0~1L/Min and 1~10L/min N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges precision ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	Mechanical Control Flowmete	en e		
N2O Flow Range Two flow tubes with 0~1L/Min and 1~10L/min ranges ± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	O2 Flow Range Two flow tub	es with 0~1L/Min and 1~10L/min ranges		
± 10% of the indicated value (for flow between 10% and 100% of full scale) ±200 ml/min (for flow below 10% of full scale	Airflow Range Two flow tube	with ranges of 0~1L/Min and 1~10L/min		
precision full scale) ±200 ml/min (for flow below 10% of full scale	N2O Flow Range Two flow tu	bes with 0~1L/Min and 1~10L/min ranges		
±200 ml/min (for flow below 10% of full scale			and 100% of	
	precision	full scale)		
environmental specifications		±200 ml/min (for flow below 10% of full scale		
	environmental speci	fications		
environmental specifications	environmental specifications			
Operation 10 ~ 40°C		Operation	10 ~ 40°C	
Temperature -20 ~ 55°C	Temperature		-20 ~ 55°C	

Relative humidity (without	Operation	ÿ80%RH	
condensation)	Storage and transportation peration	ÿ93% RH	
Atmospheric pressure	EDER	70~106kPa	
Autospheric pressure	Storage and transport	50~106kPa	
Electromagnetic compatibility			
Immunity	Meets all requirements of IEC60601-1-2		
emissions	Meets all requirements of IEC60601-1-2		
Respiratory System	Specification		
carbon dioxide absorbent con	tainer		
Absorbent capacity 1500 mL			
Breathing Circuit Parameters			
	0.87 ml / 100 Pa (bag mode)		
compliance	Automatically compensates for compression loss	ses within the breathing	
circuit in mechanical mode			
Expiratory resistance < 0.6 kF	Pa @30 L/min		
Inspiratory resistance < 0.6 kl	Pa @30 L/min		
system pressure gauge			
Range	-20~100cmH2O		
precision	± (2 % of full scale reading + 5 % of true reading)		
ports and connectors			
exhalation, inhalation, 22mm manual bag port	OD /15mm ID conical		
Integrated Adjustable	Pressure relief valve (APL)		
Range	2 ~ 70cmH2O		
Touch knob indication above	30 cm H2O		
precision	±10 cmH2O or ±15% of set point, whichever is g	reater	
Anesthetic Gas Capt	ure System (AGSS)		
Size (HxWxD)	480 x 134 x 95mm		
Type of system deletion	Low Flow Active AGSS		
Applicable standard	ISO 80601-2-13		
pumping rate	40~50L/min		
system connector deletion	ISO 9170-2		

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