



ANAESTHESIA WORKSTATION

ASTEROS LITE PRIMA

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ANAESTHESIA DELIVERY SYSTEM

asteros LITE

ASTEROS LITE PRIMA VENT VII - TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION		
Equipment Classification	Class II, Type B		
Power Supply	External Source	100-240 VAC; 50/60 Hz; 1.5 A	
	Internal Source	12 VDC, 4000 mAh Li-ion Battery	
Gas Supply	Pipeline Source	Medical Oxygen & Nitrous Oxide (300-600 KPa)	
	Cylinder Source	2 X Medical Oxygen & 2 X Nitrous Oxide 0 to 25000kPa	
Flow Control System	4-tube rotameter with inbuilt hypoxia guard assuring minimum 25% to 33% O2 and intergrated N2O cut-off system when O2 supply pressure < 2 bar		
	2 tubes for Medical Oxygen & 2 tubes for Nitrous Oxide	0 to 1 L/min 0.05L/M Step Change & 1 to 15 L/min 0.5 L/min Step Change	
Vaporizer Mount	Can accommodate maximum two selectatec vaporizers with interlocking mechanism		
Emergency Oxygen Flush	Single handed operable self-closing button with continuous flow of 35 to 75 L/min		
Circle Absorber System	Ascending bellow type with single sodalime chamber, inbuilt APL valve, integrated oxygen sensor, visible inspiratory and expiratory dish-type valves, Bag/Vent toggle for easy switching between ventilator and manual mode, water trap incorporated at expiratory port and provision for AGSS connection. Autoclavable parts include bellow canister, sodalime canister, water trap, inspiratory and expiratory valve cover.		
Ventilator Type	Electronically controlled and pneumatically driven ventilator		
Display Screen	7.1 inch color TFT display		
Functional Keys	Alarm Silence, Standby, Mode Setting, Back.		
Rotary Encoder Knob	To adjust and confirm parameters like ventilation settting, alarm setting.		
Application	Adult & Pediatric		
Real Time Graphics	Waveform	Pressure vs. Time, Flow vs. Time, Volume vs. Time	
	Loop	Pressure vs. Flow, Volume vs. Pressure, Flow vs. Volume	
Ventilation Modes	VCV (can be assisted), V-SIMV and Manual		
Ventilation Setting Parameters	Range	Ventilation Monitoring Parameters	Range
Tidal Volume	20~1600 mL	Tidal Volume	0~4000 mL
Respiratory Rate	1~100 bpm	Minute Volume	0~60 L/min
Inspiratory Time	0.2~9.9 sec	Respiratory Rate	0~170 bpm
Inspiratory Pause	0~50 msec	Peak Airway Pressure	0~100 cmH2O
Inspiration to Expiration Ratio	4:1~1:8	Mean Airway Pressure	0~100 cmH2O
Pressure Control	5~60 cmH2O	Positive End Expiratory Pressure	0~50 cmH2O
Positive End Expiratory Pressure	OFF, 3~30 cmH2O	Oxygen Concentration	15~100 %
Pressure Limit	20~100 cmH2O	Dynamic Compliance	0~200 mL/cmH2O
Oxygen Concentration	From Rotameter		
Flow Trigger	0~30 L/min		
Pressure Trigger	0~-20 cmH2O		
Sigh	0~5		
Safety Airway Pressure	≤ 75 cmH2O		
Alarms	Audio-visual alarms are categorized into 2 levels of priority.		
	High Priority Alarm : Apnea, Apnea > 2 min, Airway Pressure High, Sustained Pressure, O2 Concentration Low, Battery Low, O2 Supply Low.		
	Medium Priority Alarm : Airway Pressure Low, Minute Volume High, Minute Volume Low, O2 Concentration High, External Power Supply Failure.		
Alarm Silence Time	≤ 120 sec		
Alarm Type	Pulse		
Weight	85 Kg (including GSM circle absorber system and display)		
Dimensions (LxDxH)	770 x 600 x 1350 in mm (including GSM circle absorber system and display)		
Additional Features	Rigid light-weight trolley with a large sized drawer for storage, adjustable middle tray, top space for monitor placement, 4" castors for easy mobility, user detachable circle absorber system and emergency oxygen outlet.		
Standard Accessories	AC power cord, High pressure hose with DISS connector for oxygen and nitrous oxide Disposable dual limb patient circuit with dual water traps for adult, Proximal flow sensor with dual sampling tubes, Galvanic oxygen sensor (inbuilt), Battery (inbuilt), Castor wheels (2 with brake, 2 without brake).		
Optional Accessories	Anaesthetic Vaporizer (Isoflurane/Sevoflurane) Reusable dual limb patient circuit with dual water traps for adult/pediatric, Disposable dual limb patient circuit for pediatric, Compliance test lung for adult/pediatric, Extra proximal flow sensor.		

*Specifications, design and / or accessories listed in the catalogue subject to change without prior notice

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