



ANAESTHESIA WORKSTATION

asteros royale

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ASTEROS ROYALE - TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION		
Equipment Classification	Class II, Type B		
Power Supply	External Source	100-240 VAC; 50/60 Hz ;1.5A	
	Internal Source	12 VDC, 4000 mAh Li-ion Battery	
Gas Supply	Pipeline Source	Medical Oxygen, Nitrous Oxide & Compressed Air (300-600 kPa)	
	Cylinder Source	2X Medical Oxygen & 2X Nitrous Oxide	
Flow Control System	5-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/min Step Change & 1 to 15 L/min 0.5 L/min Step Change	
	1 tube for Compressed Air	0 to 15 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 pneuamatically driven ventilator		
Display Screen (as per model)	VENT VII	7.1 inch color TFT display	
	VENT VIII	8.4 inch color TFT display	
	VENT X	12.1 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 (as per model)	VENT VII	VCV (can be assisted), V-SIMV and Manual	
	VENT VIII	VCV (can be assisted), V-SIMV, PCV and Manual	
	VENT X	VCV (can be assisted), V-SIMV, PCV, PSV and Manual	
Ventilation Setting Parameter	Range	Ventilation Monitoring Parameters	Range
Tidal Volume	20~1600 mL	Tindal 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	Positve 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 PriorityApnea, Apnea > 2 min, Airway Pressure High, Sustained Pressure, O2 Concentration Low, Battery Low, O2 Supply Low.		
	Medium PriorityAirway Pressure Low, Minute Volume High, Minute Volume Low, O2 Concentration High, External Power Supply Failure.		
Alarm Silence Time	≤ 120 sec		
Alarm Type	2 Pulse		
Weight	99 Kg (including GSM circle absorber system)		
Dimensions (LxDxH)	813 x 737 x 1372 in mm (including GSM circle absorber system)		
Additional Features Incorporated	Rigid light-weight trolley with three large sized drawers for storage, adjustable middle tray, top space for monitor placement, two AC power sockets, 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, nitrous oxide and air, 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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