



ANAESTHESIA WORKSTATION

asteros royale

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TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Construction	Tabular, Rigid thermostat moulded with large drawer for storage. Four large diameter anti-static castor wheels providing easy mobility
Gas Inlet	- Gas specific, pin indexed yokes bar for O ₂ & N ₂ O with provision of mounting atleast 2 cylinders each. - Pipeline inlets: Gas specific, connection for each, O ₂ , N ₂ O & AIR.
Pressure Gauge	- Cylinder Pressure Gauge for O ₂ & N ₂ O: 0 to 25000 kPa - Pipeline Pressure Gauge for O ₂ , N ₂ O & AIR: 0 to 1600 kPa - Patient Airway Pressure Gauge for breath to breath measurement to display: -20 to 100 cmH ₂ O
Flowmeter	- 5-Tube Flowmeter with Inbuilt Hypoxia Guard assuring minimum 25% to 33% O ₂ at 4 bar & Inbuilt N ₂ O Cut-Off system when O ₂ supply pressure < 2 bar. - 2-Tubes for O ₂ : 0.05-1 LPM & 1-15 LPM. - 2-Tubes for N ₂ O: 0.05-1 LPM & 1-15 LPM. - 1-tube for AIR: 0.5-15 LPM.
Vaporizer	upto maximum two Tec vaporizers Mount with interlocking mechanism.
Pressure Relief Valve	Designed to release excessive airway pressure > 75 cmH ₂ O
Oxygen Flush	Self returning push button with flow of 35-75 LPM at 4 bar
Oxygen Failure Device	Audio visual alarm when O ₂ supply pressure < 2.5 bar.
On/ Off Switch	electropneumatic switch for switching pneumatic & electronics
INTEGRATED ANAESTHETIC VENTILATOR	
Models	A) Vent VII, B) Vent VIII, C) Vent X
Working Principle	Electronically controlled pneumatically driven integrated ventilator for adult, pediatric and neonatal application.
External Power Source	100-240 VAC, 50/60 Hz, 6.5 A
Internal Power Source	Lead Acid Battery: 12 VDC 4.0 Ah
Battery Backup	2 hours when fully charged
Circle Absorber System	- Circle absorber with ascending bellow canister & soda lime canister with quick detachable provision. - inbuilt APL valve (0-70 cmH ₂ O), - integrated O ₂ sensor offering FIO ₂ monitoring. - visible inspiratory and expiratory valve ensuring inspiration and expiration. - Bag/Vent Switch for easy switching between ventilator and manual bag mode. - water trap incorporated at expiratory port.
Ventilation Modes	- Vent VII: VCV, V-SIMV, V-AC, Manual & Standby - Vent VIII: PCV, VCV, V-SIMV, V-AC, Manual & Standby - Vent X: PCV, VCV, V-SIMV, V-AC, PSV, Manual & Standby
Display Screen Size	- Vent VII: 7.1" Color LCD Display - Vent VIII: 8.4" Color LCD Display - Vent X: 12.1" Color LCD Display
Real Time Display Parameters	- Vent VII: 2 Waveforms at a time: P-T and any one option from: F-T, V-T or EtCO ₂ -T with 2 Loops at a time: V-P, P-F. - Vent VIII: 3 Waveforms at a time: P-T, F-T, V-T. - Vent X: 3 Waveforms at a time: P-T, F-T, V-T with 3 Loops at a time: V-P, P-F, V-F. - Ventilation Setting Parameters
Ventilation Setting Parameters	Frequency: 1-100 bpm I:E Ratio: 4:1-1:8 Inspiratory Time: 0.2-9.9 s Inspiratory Pause Time: 0-50 ms Tidal Volume: 20-1600 ml Insp. Pressure (PEEP+5): 5-60 cmH ₂ O PEEP: 0-30 cmH ₂ O Pressure Limit: 20-100 cmH ₂ O Pressure Trigger: (-20)-(-20) cmH ₂ O Flow Trigger: 1-30 lpm Sigh: 0-5 Apnea Time: 0-60 s
Ventilation Monitoring Parameters	Frequency: 1-170 bpm Tidal Volume: 0-4000 ml Minute Volume: 0-60 lpm Peak Pressure: 0-100 cmH ₂ O Mean Pressure: 0-100 cmH ₂ O PEEP: 0-50 cmH ₂ O FIO ₂ : 21-100 % EtCO ₂ : 0-100 mmHg Compliance: 0-200 ml/cmH ₂ O
Ventilation Alarm Limits	Minute Volume: 0-20 lpm Peak Pressure: 0-100 cmH ₂ O FIO ₂ : 15-100 % EtCO ₂ : 0-100 mmHg
Ventilation Alarm	Low Level Alarm : High O ₂ Concentration, Low Airway Pressure, Low Minute Volume, High Minute Volume, External Power Supply Failure. High Level Alarm : Low O ₂ Concentration, High Airway Pressure, Sustained Pressure, Apnea, Apnea > 2min, Battery Low.
OPTIONAL SYSTEMS & ACCESSORIES	
Temperature Compensated Vaporizer	Vaporizers of choice : Halothane/Isoflurane/Sevoflurane Increments: 0-2% in 0.2 intervals and 2-6% in 0.5 intervals Agent Capacity: 300 ± 10 ml Mounting type: Selectatec Weight: 6.6 kg

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

MANUFACTURED & SERVICED BY:

MEDION HEALTHCARE INDIA PVT. LTD.

K49, Additional MIDC, Thakur pada, Next to MSEB
Power Substation, Ambernath (E) - 421506 (Maharashtra)

Tel: +91 74100 26561 | Email: sales@medion.co.in

Website: www.medion.co.in

MEDI+ON
Healthcare

Formerly: Meditronics Sales & Service Pvt. Ltd.

REPRESENTED BY:

