

202

Critical Care ICU Ventilator for Central Hospital/ WCR, JBP

Technical Specifications of Critical Care ICU Ventilator.

Major Parameters	No Deviation in Major parameters accepted. (Zero Tolerance).	
	International Standard	Critical Care ICU Ventilator must be CE marked & as per International standards IEC 60601-1-2 & IEC 60601-2-41 & should have FDA approved. Proof of certificates should be attached.
	Critical Care ICU Ventilator must have Invasive & Non invasive ventilation for ventilation of adult & pediatric patients in all critical care therapy needs. Operable on mains and battery & integrated rechargeable Battery should provide approx. 45 minutes backup to both ventilator & compressor. All component of ICU ventilator must be manufactured by single company only.	
	Technical Data	Inbuilt Screen – TFT, 06” inch to 09” inch colored screen based Operation with digital & graphic screen display. Software controlled pressure limit function. Sub-ambient valve for emergency air intake.
	Ventilation modes.	IPPV(CMV), IPPV Assist (CMV Assist), SIMV, SIMV/ASB (SIMV/PS), CPAP, CPAP/ ASB, (CPAP/PS), BIPAP (PCV +) (PCV+/PS) Non Invasive ventilation with automatic leakage compensation available in all modes from control to spontaneous. - Autoflow or equivalent for delivering tidal volume within a set PIP should be possible to combined in all volume control modes and should allow spontaneous breathing in all volume control modes.
	Apnea backup	Apnea backup ventilation mode with adjustable tidal volume and rate.
	Ventilation frequency	2 to 80 bpm.
	Inspiration time	0.2 to 10 seconds.
	Tidal Volume	0.05 to 2.0 litres.
	Inspiratory pressure	0 to 99 cm H ₂ O
	Inspiratory flow	0 to 180 L/minute.
	PEEP	0 to 35 cm H ₂ O
	ASB/Pressure support	0 to 35 cm H ₂ O
	Oxygen concentration	21 to 100 volume %
	Flow acceleration	5 to 200 cm H ₂ O/second.
	Trigger sensitivity	1 to 15 L/minute
	Measured value	Display
	1) Air way pressure Measurements.	1) Peak pressure, plateau pressure, mean airway pressure. PEEP- 0 to 100 mbar (cm H ₂ O).


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1

Gas supply- Air – Turbine technology.
Oxygen gas supply – 3 bar (39 psi) to 10 % up to 6 bar (87 psi).

Minor parameters	Main Power Supply – 100 to 240 V, AC 50/60 Hz. 10 to 36 V, DC Power consumption – 80 to 100 Watts. Internal battery – approximately – 60 minutes.	
	1. History record- 2. Battery charge status. 3. Humidity (operating) 4. Dimensions -W x H x D 5. Weight (basic device) 6. Trolley to carry or transport Ventilator in hospital.	1. 200 events. 2. Indication. 3. 30 to 75% non condensing. 4. 380mm x 383 mm x 358 mm. 5. Approximately 22Kg to 24 Kg. 6. Trolley is essential part of equipment.
Conditions	Any fault must be repaired within 24 hours by company.	Install at Intensive Care Unit of Central Hospital, WCR, Jabalpur (M.P.)
	Warranty period	Twenty four months after installation.
	Annual maintenance contract / ----- Comprehensive maintenance contract	Five years after warranty period. Rates must be quoted.

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Annexure-II

To be submitted by the firm along with offer.

Tender specification	Specification quoted by the firm	Deviation if any with clarification