

ritical Care ICU Ventilator for Central Hospital/ WCR, JBP

Technical Specifications of Critical Care ICU Ventilator.

Major	No Deviation in Major parameters accepted. (Zero Tolerance).			
Parameters	7 2 2 2 2 2	Critical Care ICU Ventilator must be CE marked & as per		
	International Standard	International standards IEC 60601-1-2 & IEC 60601-2-41.		
	Standard	Proof of certificates should be attached.		
	Catal Cons ICU Montilet			
	Critical Care ICU Ventilator must have Invasive &Non invasive ventilation for ventilation of adult, pediatric & neonate patients in all critical care therapy needs. Operable on mains and battery & integrated rechargeable Battery should provide approx. 60 minutes backup and online UPS should provide backup to ventilator up to 3 hours. All component of ICU ventilator must be manufactured by single company only.			
	Technical Data	Inbuilt Screen - LED,09" inch to 12" 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		
	1 have 100	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 H2O		
	Inspiratory flow	0 to 180 L/minute.		
	PEEP	0 to 35 cm H2O		
	ASB/Pressure support	0 to 35 cm H2O		
	Oxygen concentration	21 to 100 volume %		
	Flow acceleration	5 to 200 cm H2O/second.		
	Trigger sensitivity	1to 15 L/minute		
	Measured value	Display		
	1)Air way pressure Measurements.	 Peak pressure, plateau pressure, mean airway pressure. PEEP- 0 to 100 mbar (cm H2O). 		
	2)Minute volume	2) Total MV, Spontaneous MV, 0 to 99 L/minute, 3)Inspiratory		
	3)Tidal volume VT	VT, expiratory VT 0 to 4000 ml, BTPS.		

()amade.

1





ameters	4)Breathing frequency 5)Inspiratory Oxygen Concentration	4)Total & spontaneous breathing frequency 0 to 150 bpm. 5) 21 to 100 volume %
		17 and 1 time control into a consequent which
	6)Breathing gas Temperature	6)18 degree to 48 degree centigrade.
	7) Ventilation ratio (I:E)	7)150:1 to 1:150
	8)Curve display	8)Airway pressure/time, flow/time.
	Performance data	
	1)Maximum flow for pressure assist /	1)180 liters /minute
	Spontaneous breathing.	
	2) Valve response time T0. 90	2) <_5 millisecond.
	3) Control principle-4) Safety valve opening pressure.	3) Time cycled, volume- Constant, pressure- controlled, 4) 100 mbar (cm H2O)
	5) Emergency valve	
	Automatic gas switch over function if oxygen supply fails.	5) Automatically enables spontaneous breathing with filtered ambient air if air & Oxygen supply should fail.6) Mandatory incorporated & required.
	7) Output for pneumatic Medicament nebuliser.	7) synchronized with inspiration.
	8) Oxygen Sensor	8) Should have permanent oxygen sensor
2	Alarms.	, and any gon sonsor
	1)Airway pressure	1)High / low.
(2	2)Expiratory minute Volume	2) High / low.
3	3)Tidal volume	3) High / Iow.
4	1) Apnea alarm time.	4) 15 to 60 seconds.
	i)Inspiratory oxygen concentration.	5) High / low.
	Spontaneous breathing requency.	6) High.
7) Inspiratory Breathing ias temperature.	7) High.
C	as supply- Air - Turbine t	

2





finor parameters	Main Power Supply – 100 to 240 V, AC 50/60 Hz. 10 to 36 V, DC Power consumption – 80 to 100 Watts. Charging time-10 hrs.		
	1.History record- 2.Battery charge status. 3.Humidity (operating) 4.Dimensions -L x H x B 5.Weight (basic device) 6.Trolly to carry or transport Ventilator in hospital.	 2000 events. Indication. 30 to 75% non condensing. 65cm x 140 cm x 53 cm. Approximately 22Kg to 24 Kg. Trolly 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.	

Dr.K.K.Damade. 05/11/14-ACHD/Anesth/CH/JBP

Annexure-II

To be submitted by the firm along with offer-

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