

Paediatric Ventilator with All Connectors

1. Should be a Microprocessor based Pressure Limited.
2. Ventilator for use on Paediatric to Adult Patients.
3. Should have the following modes:
 - a. Controlled Assisted,
 - b. SIMV,
 - c. CPAP and
 - d. Advanced modes – PVC, PC, PSV, SIMV/CPAP, Flow Trigger etc.
4. Should have a REUSABLE external flow sensor which works on pressure difference (Should not be Semi-disposable or disposable)
5. Should be able to control the inspiratory flow depending on patient conditions.
6. Should have Volume Guarantee features during spontaneous breaths.
7. Should have back-up ventilation.
8. Should be able to monitor the following:
 - a. Exhaled Tidal Volume
 - b. Total Minute Volume
 - c. Total Breath Rate
 - d. Spontaneous Rate, I:E Ratio, Insp. Time
 - e. Backup percentage, mean, peak & plateau pressure
 - f. Different types of breaths etc.,
9. Should have all necessary Audio- Visual Alarms.
10. Should have:
 - a. Tidal Volume Range : 0.03 – 2.00 Ltrs
 - b. Rate : 0 – 120 BPM
 - c. Peak Flow : 5 – 150 LPM
 - d. O₂% : 21 – 100%
 - e. Peep : 0 – 50 Cms H₂O
11. Should have facility for inspiratory pause and expiratory hold
12. Should have built-in Nebulizer.

13. Should have built-in/External NOISE LESS compressor.
14. Should have Graphic Display to Monitor Flow
15. Volume Plus pressure Curves & Loops.
16. Unit to be supplied with UPS with a battery back up of 2 hours.
17. A low battery alarm should visibly and audibly indicate when the battery voltage falls to a level below which the unit may fail to perform satisfactory.
18. Recharging of battery within 16 hours after depletion.
19. Battery should be easy to recharge / replace.
20. Non – suppressible alarm for oxygen supply failure.
21. Equipment should conform to the equivalent Indian Standard or other Equivalent international or third country standard (CE/FDA certification) for good manufacturing practice and safety