

## **SPECIFICATION OF MODEL BA 2001 MI - EL** **VENTILATOR**

1. Should be both **Time cycling** and **pressure cycling** ventilator controlled by 3 Microprocessor.
2. Should support both Adults and Paediatrics
3. Should be able to use in different operating situations.
  - a). In Hospitals
  - b). Transport and Ambulance
  - c). Home ventilation
4. Should not require a compressor (i.e. It should work on the venturi principle and hence should draw air from the atmosphere. Air to be drawn by the push of the button. This push button can be switched **ON & OFF** independently, in accordance with the needs and requirements)
5. Should have the following modes of ventilation.

a). CMV	b). CMV + SIGH
c). Automatic	d). CPAP
e). PSV	f). PCV
g). BIPAP	h). Non-invasive ventilation
i). Manual ventilation	
6. Should have understandable and comprehensive alarms, namely maximum pressure, minimum pressure, APENA, O<sub>2</sub> failure, battery and dangerous selection.
7. Should have **I : E** ratios 1:1 & 1:2
8. Should have Electronic peep.
9. Should have built in battery back up for more than 6 hours.
10. Should not accept wrong or incompatible settings. (i.e. if the wrong or incompatible settings are done, the machine should immediately alarm to indicate that dangerous selection have been made and automatically the flow should be terminated, irrespective of its rate to ensure safety to the patient..
11. Should be user friendly with colour coded controls to ensure ease of operation.
12. Should have electronic colour coded Airway Pressure Manometer.

13. Should have back lighted alphanumeric display for monitoring.
14. Should have non invasive Ventilation for difficult intubations patients. (suitable for ventilation with face or laryngeal mask).
15. Should be comfortably mounted on a trolley to move around in hospital.
16. Should have adjustable flow from 2 to 20 lpm
17. Should have pressure limit from 5 to 60 mbar
18. Should have trigger from 0 to 10 mbar
19. The power supply should be 12V DC /1A
20. Should have O<sub>2</sub> percentage of >40% or >90%
21. Should have a LCD alphanumeric display for monitoring.
22. Dimensions should not exceed 240 x 128 x 143mm
23. The weight should not exceeds more than 2.5 kg.