**Technical Specifications for*Mobile Adult/ pediatric ventilator***

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| **No.** | **Technical Specifications** | **Min KAUH Requirement** | **توضيح المواصفة** |
| 1. | Manufacturer | Please specify manufacturer and country of origin |  |
| 2. | Model Number | Please specify model number of the offered equipment |  |
| 3. | Safety standard | FDA approval or CE marking |  |
| 4. | Design and quality | Compact , heavy duty and high quality |  |
| 5. | Ventilator System | * Microprocessor controlled used for pediatric and adult . * Software must be up gradable. * Humidifier. * Compressor (optional). * Nebulizer * Leak compensation. |  |
| 6. | Ventilation mode | * Volume controlled. * Pressure controlled (APRV). * SIMV * Spontaneous pressure support /cpap * Non invasive * PRVC |  |
| 7. | Preferable functions | * Automatic ventilation mode * Non invasive ventilation |  |
| 8. | Special functions | * Pediatric,adult application. * Standby. * Apnea pack up ventilation * Manual breath * Measure static and dynamic parameter. * High frequency ventilation mode ( optional). | High flow nasal cannula(HFNC) |
| 9. | Graphic waveform , trends & loops | * Flow * Volume * Pressure * Other specify. |  |
| 10. | Display | Multicolor LCD display not less than 10" prefebale touch screen with easy to use interface. |  |
| 11. | Ventilation controls | * Frequency 5 to 100 bpm * Tidal volume ( 20 – 2000) ml * I : E ratio 4 : 1 – 1 : 4 or equivalent * Insp. pressure (up to 60) cm H2O * PEEP / CPAP (0 – 30) cm H2O or better * Pressure support : (up to 60)   cm H2O   * Oxygen : 21 to 100 % |  |
| 12. | Ventilation monitoring parameters | * Inspiratory peak flow * Expired tidal volume * Pressure (max. , mean , PEEP) * Inspired oxygen concentration * I : E ratio * Frequency |  |
| 13. | Trigger mechanism | Pressure , flow |  |
| 14. | Alarm limits (adjustable) | * Low/high pressure limit * Low O2 * Low/high PEEP / CPAP pressure * Low tidal volume * Low minute volume * Low/high respiratory rate * Low/high Fio2 : 21-100% * Apnea: 5-20 sec. * All alarms audible and visible | * Low/high pressure limit |
| 15. | Inlet gas supply pressure (air O2) | * To be mentioned |  |
| 16. | Equipment alarm | * Power failure * Low battery * Disconnection * Gas supply failure * Flow sensor alarms * All alarms audible and visible |  |
| 17. | Compressor for ventilator (optional) | * Original and compatible with ventilator Water and oil free * Low noise ( ≤ 60 Db) * Original and compatible with ventilator. * Automatic compressor backup system .(Air compressor will switch on automatically when inlet pressure is failed ) * Easy access |  |
| 18. | Accessories | * O2 sensor * Humidifier * Reusable patient circuit for pediatric * Reusable patient circuit for adult * Test lung * Nebulizer * All needed accessories for full pediatric and adult use |  |
| 19. | Self diagnostic error / calibration massage | Included |  |
| 20. | Power supply | * 220 V / 50 Hz * Internal rechargeable battery |  |

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