**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.
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| 6. | Ventilation mode | * Volume controlled.
* Pressure controlled (APRV).
* SIMV
* Spontaneous pressure support /cpap
* Non invasive
* PRVC
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| 7. | Preferable functions | * Automatic ventilation mode
* Non invasive ventilation
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| 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.
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| 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 %
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| 12. | Ventilation monitoring parameters | * Inspiratory peak flow
* Expired tidal volume
* Pressure (max. , mean , PEEP)
* Inspired oxygen concentration
* I : E ratio
* Frequency
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| 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
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| 15. | Inlet gas supply pressure (air O2) | * To be mentioned
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| 16. | Equipment alarm  | * Power failure
* Low battery
* Disconnection
* Gas supply failure
* Flow sensor alarms
* All alarms audible and visible
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| 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
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| 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
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| 19. | Self diagnostic error / calibration massage  | Included  |  |
| 20. | Power supply | * 220 V / 50 Hz
* Internal rechargeable battery
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