

Commodity Description

1. H.S.K No : 9019.20.4000

2. Product Name :MRI Ventilator 1set

3.

A) Features :

1. It lets you view up 30 parameters
2. Ventilation Cockpit to improve safety through intuitive operation and monitoring, visualizes the patient's respiratory mechanics and ventilation support
3. Touch-Screen user interface can make easy access
4. Visual Lung Mechanics visualizes in real-time of
 - (1) Tidal volume
 - (2) Lung compliance
 - (3) Resistance
 - (4) Patient activity
5. In the MRI environment, where strong magnetic fields bear danger for the patient and the operator, safety is a priority.
6. The integrated gaussmeter, TeslaSpy, continuously monitors the magnetic field and gives you an audible and visual signal if you are getting too close.
7. User friendliness and patient comfort are increased the closer the ventilator can be to the patient.
8. IntelliTrig can support NIV as automatic response to varying leaks and adaption of trigger sensitivity in NIV modes
9. It can display real-time waveforms loop, Freeze, based on user-selected
10. Measurement are taken between the patient and Y-piece not inside the machine
11. It make it easy to adjust alarm limits appropriately, even while the ventilator is alarming or you can choose automatic alarm setting
12. Inspiratory and expiratory measurement of resistance, compliance and Time-constant.
13. Adaptive Support Ventilation (Automatic Ventilation)
14. 5.5 Hours Battery Operation
15. Fast Tracking
16. 1, 6, 12, 24 Hours Trends For 30 Parameter
17. High performance ultraquite turbine can deliver up to 210l/min flow
18. Screen-lock can increase safety

B) Specification :

1] PHYSICAL DIMENSIONS:

1. Dimensions(WxHxD) : 30x26.5x21cm
2. Weight : 6.8 kg without trolley
3. Display : 8.4 inch, TFT Color, Touchscreen

2] MRI ENVIRONMENT;

1. MRI Conditional : 1.5T and 3.0T static magnetic field
2. Proximity to MRI : 50mT (equal 1m for a 3T scanner)
3. Gaussmeter : TeslaSpy

3] CONTROL:

1. Mode
 - Volume type: CMV, SIMV, SPONT
 - Pressure type: PCV, P-SIMV
 - Special: ASV
2. Special Function : Manual breath, inspiration hold, screen lock, nebulizer, O2 enrichment, sigh, Standby, apnea backup, suctioning tool
3. Patient Type: Pediatric to Adult
4. Rate: 1 to 80 b/min
5. Tidal Volume(ml) : 20 to 2000ml
6. Peak Flow(L/m) : Spontaneous > 210l/min
7. Pressure Control : 3 to 60 cmH2O Added to PEEP/CPAP
8. Pressure Support : 0 to 60 cmH2O Added to PEEP/CPAP
9. Insp Time : 0.1 to 12 sec
10. I:E Ratio : 1:9 to 4:1
11. FiO2 : 21 to 100%
12. PEEP/CPAP : 0 to 35 cmH2O
13. Flow Trigger : Off, 1 to 20 l/min
14. Pressure Ramp : 0 to 2000 ms
15. P high(APRV/DuoPAP) : 0 to 60 cmH2O
16. P low(APRV) : 0 to 35 cmH2O
17. T high(APRV/DuoPAP) : 0.1 to 40 Sec
18. T low(APRV) : 0.2 to 40 Sec
19. Expiratory trigger sensitivity(ETS) : 5 ~ 80% of inspiratory peak flow
20. %minute volume(ASV) : 25 ~ 350%

4] MONITOR :

1. Real-Time wave forms/Loop : Volume, Flow, Pressure, Auxiliary Pressure
2. Pressure : Paw, Peak, Mean, Insp, Plateau, PEEP/CPAP, AUTOPEEP

3. Flow : Insp/Exp Peak
4. Volume : VTE, VTI, Minute, Leakage
5. Time : Inspiratory, Expiratory, I:E, Total frequency, Spontaneous frequency
6. Oxygen : Airway Oxygen Concentration
7. Lung Function Parameter : Insp/Exp Resistance, Static Compliance, Insp/Exp Time constant, Imposed Work of Breathing Pressure time product, P01, Rapid Shallow Breathing
8. Trending : 30parameters for 1, 6, 12, 24 Hours
9. Others : Waveform Freeze and Cursor Function

5] ALARM:

1. Low/High Minute Volume : 0.1 to 50 l/min
2. Low/High Pressure : 4 to 70 cmH₂O
3. Low/High Tidal Volume : 10 to 3000 ml
4. Low/High Rate : 0 to 99 b/min
5. Low/High Oxygen
6. Apnea Time : 15 to 60 s
7. Special alarm : Oxygen concentration, disconnection, Oxygen/Air Supply Loss of peep, Check setting, Flow sensor alarm Power supply, Battery, exhalation obstruction, ASV alarm
8. Event Log : Storage and Display 1000 events with time stamp

C) Consists of :

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| 1. Ventilator device and panel | 1ea |
| 2. MRI Trolley | 1ea |
| 3. Language kit | 1ae |
| 4. Diss connector O ₂ | 1ea |
| 5. MRI Power Code | 1ea |
| 6. Expiratory Valve | 2ea |
| 7. Disp.MRI용 Patient Tubing(8/box) | 1bx |
| 8. Flow sensor | 1ea |
| 9. Oxygen Sensor | 1ea |
| 10. Non invasive ventilation & NIV-ST | 1ea |
| 11. Adaptive Support Ventilation | 1ea |
| 12. Visual Lung | 1ea |
| 13. Test Lung | 1ea |
| 14. O ₂ Tubing with CPS Adapter | 1ea |
| 15, O ₂ Regulator | 1ea |
| 16, Transport | 1ea |
| 17. Operator & Service Manual | 1ea |

D) Remarks :

- (1) The part number of all quoted items(main body and modules) and accessories must be specified on the quotation and catalog.
- (2) The installation and operation service of the equipment shall be performed by the qualified / certified engineer at the end-user's site at free of charge.
- (3) Three years warranty should be provided after the performance test.
- (4) The standard accessories should be provided without omission.
- (5) The supplier should provide abroad or domestic training for a doctor and biomedical engineer.