

# **Commodity Description**

**1. H.S.K No : 9019.20.4000**

**2. Product Name : Ventilator 3set**

**3. Model Name :**

## **A) Features**

1. It lets you view up 41 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. Bar-graphic parameter show to user when consider taking the patient off the ventilator
6. IntelliTrig can support NIV as automatic response to varying leaks and adaption of trigger sensitivity in NIV modes
7. It can display real-time waveforms loop, Freeze, based on user-selected
8. Measurement are taken between the patient and Y-piece not inside the machine
9. It make it easy to adjust alarm limits appropriately, even while the ventilator is alarming or you can choose automatic alarm setting
10. Inspiratory and expiratory measurement of resistance, compliance and Time-constant.
11. Wearing parameter P01, RSB, PTP, WoBimp
12. Adaptive Support Ventilation ( Automatic Ventilation )
13. 5.5 Hours Battery Operation
14. Fast Tracking
15. 1, 6, 12, 24, 72 Hours Trends
16. Print screen key save screen shot for easy transfer and viewing on a PC
17. USB interface available for download data
18. High performance ultraquite turbine can deliver up to 240l/min flow
19. Screen-lock can increase safety

## **B) Specification**

## 1. CONTROL:

- 1) Mode :
  - Volume type: CMV, SIMV
  - Pressure type: PCV, P-SIMV, Spont
  - Special: ASV, NIV, NIV-ST, APV
- 2) Special Function
  - Manual breath, inspiration hold, screen lock, O2 enrichment, nebulizer, 100% O2, sigh, Standby, apnea backup, screen shot, suctioning tool, configurable Quickstart-settings, start-up over body height and IBW, dimmable screen,
- 3) Patient Range: Pediatric to Adult
- 4) Rate: 1 to 80 b/min
- 5) Tidal Volume(ml) : 20 to 2000 ml
- 6) Peak Flow(L/m) : 0 to 210 l/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 and Plow(DUOPAP and APRV) : 0 to 35 cmH2O
- 13) Flow Trigger : Off, 0.1 to 20 l/min
- 14) Pressure Ramp: 0 to 2000 ms
- 15) T high(APRV/DuoPAP) : 0.1 to 40 sec
- 16) T low(APRV) : 0.2 to 40 sec
- 17) Expiratory trigger sensitivity(ETS) : 5 ~ 80% of inspiratory peak flow
- 18) %minute volume(ASV) : 25 ~ 350%

## 2. MONITOR :

- 1) Real-Time wave forms/Loop : Volume, Flow, Pressure
- 2) Pressure : Peak, Mean, Min, Plateau, PEEP/CPAP, AUTOPEEP
- 3) Flow: Insp/Exp Peak
- 4) Volume : VTE,VTI,ExpMinVol,Leak, MVspont
- 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 : 41 parameters 1, 6, 12, 24 Hours
- 9) Others : Waveform Freeze and Cursor Function

## 3. ALARM

- 1) Low/High Minute Volume : 0 to 50 l/m
- 2) Low/High Pressure : 0 to 120 cmH<sub>2</sub>O
- 3) Low/High Tidal Volume : 0 to 3000 ml
- 4) Low/High Rate : 0 to 130
5. Apnea Time : 10 to 60 sec
- 6) Special alarm : Oxygen concentration, disconnection, Oxygen/Air Supply Loss of  
peep, Check setting, Flow sensor alarm Power supply, Battery,  
exhalation obstruction, ASV alarm
- 7) Event Log: Storage and Display 1000 events with time stamp

**C) Consist of each set:**

|                                            |      |
|--------------------------------------------|------|
| 1. Ventilator device and panel             | 3ea  |
| 2. Language kit                            | 3ea  |
| 3. DISS connector O <sub>2</sub>           | 3ea  |
| 4. Power code                              | 3ea  |
| 5. ASV                                     | 3ea  |
| 6. NIV                                     | 3ea  |
| 7. Dynamic Lung System                     | 3ea  |
| 8. Expiratory Valve with membrane          | 6ea  |
| 9. Disposable Circuit with HME             | 30ea |
| 10. Flow Sensor                            | 9ea  |
| 11. Oxygen Sensor                          | 3ea  |
| 12. Test Bag                               | 3ea  |
| 13. Trolley                                | 3ea  |
| 14. O <sub>2</sub> tubing with CPS Adapter | 3ea  |
| 15. Operator Manual/Service Manual         | 3ea  |

**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.