

V8800 Ventilator System



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V8800 is a critical care ventilator for infants, children and adults. It has comprehensive functionality, a user-friendly design, and is full of high-quality, reliable treatment options for the clinician.

- *Complete ventilation functionality: In addition to typical ventilation modes, V8800 also has BIVENT and PRVC, to fully meet the demands of critical care mechanical ventilation.
V8800 also includes enhanced features such as automatic tube compensation as part of the standard configuration.*
- *V8800 includes NIV Ventilation as a standard feature. Users have the flexibility to use V8800 for both invasive and non-invasive therapy to reduce equipment costs.*
- *V8800 is full of valuable clinical features:
Synchronized nebulizer
Inspiratory and expiratory hold
Manual inspiration
Smart suction*



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Simple and intuitive interface:

With a 15" TFT LCD touch screen and a simple intuitive interface, the user can easily complete the entire operation. At the same time the display can be rotated 180 degrees around the user in different directions, different angles of observation and action.

Powerful monitoring functions:

V8800 can display waveforms and loops, and with a waveform freeze function a cursor can be used to measure waveform values. Loop references can be saved. Graphic trend of monitoring parameters and optional ETCO₂ monitoring provide clinicians with complete information.

Lung mechanics monitoring:

Menu, automatic measurement of static compliance, airway resistance and intrinsic PEEP, read the data directly, easy to use.



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- *User-friendly design*

The user can position the ventilator easily by using the handle which circles the main unit. By using the side rails on the machine, the user can add-on modules as needed, such as a humidifier or carbon dioxide monitoring module.

- *Easily removable and autoclavable exhalation valve module to keep, maintenance costs low*

- *Built-in battery eliminates the need to worry about power interruptions. An optional 2nd internal battery is available*

- *Intelligent alarm system, reinforces safe use of the machine*



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Technical Parameters



Modes of Ventilation

- Volume Controlled (VCV), Assist/Control
- Pressure Controlled (PCV), Assist/Control
- Pressure Regulation Volume Controlled (PRVC), Assist/Control
- Synchronized Intermittent Mandatory Ventilation, SIMV(VCV) + PSV, SIMV(PCV) + PSV, SIMV(PRVC) + PSV
- Spontaneous Ventilation (SPONT/CPAP) + PSV
- Bi Level Ventilation (BIVENT/APRV) + PSV
- Non-invasive Ventilation (NIV/CPAP + PSV, NIV/PCV)

Parameters and Ranges

- Tidal volume: 20-2500ml
- Respiratory rate: 1-120bpm
- Inspiration time: 0.2-9s
- Inspiratory pause time: 0~4s
- Tslope: 0~2s
- FiO₂: 21%~100%
- PEEP: 0-50cmH₂O
- CPAP(NIV): 2-20cmH₂O
- Psupport: 0-90cmH₂O
- P_{insp}: 0-100cmH₂O
- P_{high}: 5-90cmH₂O
- P_{low}: 0-50cmH₂O
- Esens: 5%~80%
- Flow patterns: square, decelerating
- Inspiratory hold
- Expiratory hold
- Nebulizer: 30 or 45 minutes
- Auto tube compensation (ATC)
- Compliance compensation
- Graphical trends
- Nurse call

Monitoring

- Pressure values: P_{min} , P_{plat} , P_{mean} , P_{peak} , PEEP
- Volume/Flow values: VTI, VTE, MV, MVspont, Leak%
- Loops: Flow – Pressure, Pressure - Volume, Flow - Volume
- FiO_2
- Optional $EtCO_2$

Alarms

MV high, MV low, Circuit disconnect, Paw high, Paw low, Continuous airway pressure high, VTi high, fspont high, Tapnea, FiO_2 high, FiO_2 low, $EtCO_2$ high, $EtCO_2$ low, Power supply failure, Battery low, Battery exhausted, Air supply failure, O_2 supply failure, PEEP low, etc

Operating Conditions

- Gas supply: O_2 , Air, 200kPa -650kPa (29 – 94 PSI)
- Power supply: 100-240V, 50-60Hz
- Temperature: 10-40°C (Operation)
- -20-60°C (Storage)
- Relative humidity: 15-95%, non-condensing (Operation)
- $\leq 95\%$, non-condensing (Storage)
- Atmospheric pressure: 500hPa-1060hPa (Operation & Storage)
- Communication interfaces: RS232, VGA, USB, RJ45
- Dimensions (HxWxD): 624x774x1410mm (with Cart)

Standards

UL/IEC 60601-1, IEC 60601-1-2, IEC 60601-2-12, EN 794-1



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