

# Shangrila590 Ventilator



- The first CE mark ICU ventilator in China
- Pneumatically driven and electronically controlled for pediatric and adult
- Detachable 10.4" TFT color screen decreases cross-infection effectively
- Easy setting by navigator wheel knob & touch key
- Three-level light and sound alarm, with concise words describing problems
- Sensitive pressure trigger and flow trigger with base flow
- Lung mechanics monitoring and loops
- Emergency start function
- Synchronized nebulizer
- Built-in inspiration and expiration flow sensor, durable and water coagulation resistant
- Built-in battery

# Technical Specification

## Specification

### Modes of ventilation

- Volume Controlled (VCV), Assist/Control
- Pressure Controlled (PCV), Assist/Control
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Volume-controlled breaths (V-SIMV)
- Pressure-controlled breaths (P-SIMV)
- Pressure Support (PSV)
- Spontaneous ventilation (SPONT)
- Continuous Positive Airway Pressure (CPAP)
- Combined settings: VCV + SIGH, SIMV (VCV)+PSV, SIMV (PCV)+PSV
- Sigh

### Parameter

- Tidal volume: 50~1500ml
- Respiratory rate: 4~100bpm(used in VCV & PCV)  
1~40bpm (used in V-SIMV & P-SIMV)
- Inspiration time: 0.1~12s
- Inspiratory pause time: 0~4s
- FiO<sub>2</sub>: 21%~100%
- Trigger sensitivity: Pressure (-2~0kPa, above PEEP)  
Flow (0.5~20LPM, with base flow)
- PEEP: 0~4kPa
- P<sub>support</sub>: 0~6kPa
- P<sub>control</sub>: 0.5~6kPa
- Nebulizer: 30 minutes
- Emergency start: Yes
- Key lock: Yes

### Monitoring

- Pressure values: P<sub>aw</sub>, P<sub>plat</sub>, P<sub>mean</sub>, PEEP
- Volume/Flow values: VT<sub>i</sub>, VT<sub>e</sub>, MV, MV<sub>spont</sub>
- Time values: f<sub>total</sub>, f<sub>spont</sub>, I:E
- Oxygen monitoring: without O<sub>2</sub> sensor
- Real time curves: Pressure-Time, Flow-Time, Volume-Time, Pressure-Volume loop,  
Flow-Volume loop
- Respiratory mechanics: dynamic and static compliance, resistance, auto PEEP

### Alarm

- MV high, MV low, Circuit disconnected, P<sub>aw</sub> high, P<sub>aw</sub> low, Airway pressure continue high, VT<sub>e</sub> high, f<sub>spont</sub> high, T<sub>apnea</sub>, FiO<sub>2</sub> low, FiO<sub>2</sub> high Power supply failure, Nebulizer on, Battery low, Battery exhausted, Air supply down, O<sub>2</sub> supply down, Air & O<sub>2</sub> supply down

## Technical data

- Screen: 10.4"TFT color screen (detachable)
- Gas supply: O<sub>2</sub>, Air (All gas must be medical level), 0.28~0.6MPa
- Power supply: AC110~240V, 50Hz/60Hz, 65VA
- Maximum security pressure: 8kPa
- Compliance: 4mL/100Pa
- Noise: ≤65dB(A)
- Communication interfaces: RS232 port, VGA port
- Dimensions (H×W×D): 400×303×250 mm
- Weight: 15kg

## Environment requirement

- Temperature: 5°C~40°C (Operation)  
-10°C~55°C (Storage)
- Relative humidity: ≤80%, non-condensing (Operation)  
≤93%, non-condensing (Storage)
- Atmospheric Pressure: 86~106kPa (Operation)  
86~106kPa (Storage)
- Atmospheric Operation: 500~800mmHg / 3565~ -440m (Operation)  
375~800mmHg / 5860~ -440m (Storage)

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