

Shangrila590 Ventilator



- The first ICU ventilator with CE mark in China
- Pneumatically driven and electronically control for pediatric and adult
- Detachable 10.4" TFT color screen decrease 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 (Option)
- Inspiratory and expiratory hold (Option)
- Manual inspiration (Option)
- 100% O₂ (Option)
- 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: VCV + SIGH, SIMV (VCV)+PSV, SIMV (PCV)+PSV

Parameter

- Tidal volume: 0~1500ml
- 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
- FiO₂: 21%~100%
- Trigger sensitivity: Pressure (-2~0kPa, above PEEP)
Flow (0.5~20LPM, with base flow)
- PEEP: 0~4kPa
- P_{support}: 0~6kPa
- P_{control}: 0.5~6kPa
- E-sense (Option): 10%~50%
- 100%O₂ (Option): 2min
- Inspiratory hold (Option): Yes
- Expiratory hold (Option): Yes
- Manual inspiration (Option): Yes
- Freeze (Option): Yes
- Nebulizer(Option): 30 minutes
- Emergency start: Yes
- Key lock: Yes

Monitoring

- Pressure values: P_{aw}, P_{plat}, P_{mean}, PEEP
- Volume/Flow values: VT_i, VT_e, MV, MV_{spont}
- Time values: F_{total}, F_{spont}, I:E
- Oxygen monitoring: With O₂ sensor (option), without O₂ 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_{aw} high, P_{aw} low, Airway pressure continue high, VT_e high,
F_{spont} high, T_{apnea}, FiO₂ low, Power supply failure, Nebulizer on, Battery low, Battery exhausted,
Air supply down, O₂ supply down, Air & O₂ supply down

Technical data

- Screen: 10.4" TFT color screen (detachable)
- Gas supply: O₂, 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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