



ESV-SPIRIT 3100

ICU Ventilator



INTENSIVE CARES



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ICU ventilator



- 12.1 inch touch screen with desirable color schemes
- The simplest interface boots a precise control and convenient operation
- Applied for adult, pediatric and infant
- Multi-mode ventilation function (VCV, SIMV, SIMV/PSV, PSV, PCV, APRV, APNEA, CPAP, BIPAP, Manual, SIGH)
- Applied with Invasive and Non-invasive ventilation
- Advanced air compressor for air input
- Self testing and calibration function
- Auto-wash for exhaust valve
- Assistant Nebulization treatment
- High flow oxygen remedy

TECHNICAL FEATURES

Physical specifications

Dimensions	45x55x140cm
Weight	65kg
Casters	Front wheels with lock
Screen	12.1 inch touch screen
Display	Colour LCD
Display graphics	Waveforms of P-T, F-T, V-T
Loops	P-V, F-V, F-P

Pipeline Supply

Gas configuration	Air, O ₂
Pipeline input range	280-600KPa

Air Compressor Specifications

Power	AC 220V±10%, 50Hz±2%
Output pressure	0.4±0.1MPa
Noise	<= 50dB

Battery Power

Run-time	Typical 180 mins+
Type	Lead-acid 12V,4Ah

Ventilation Modes

VCV	Volume control ventilation
APNEA	APNEA
SIMV	Synchronized Intermittent Mandatory Ventilation
SIMV/PSV	SIMV/Pressure support
MANUAL	Manual
CPAP	Continuous Positive Airway Pressure
PSV	Pressure Support Ventilation
PCV	Pressure Control Ventilation
NIV	Non-invasive ventilation
BIPAP	BIPAP
SIGH	SIGH
APRV	Airway Pressure Release Ventilation

Ventilation Parameters

Tidal Volume range	20-2000ml
Pressure range	5-80cm H ₂ O
Respiration Rate Range	1-100bpm (1-40bpm under SIMV)
Inspiration time	0.2-12s
Pressure control/support	0-80cm H ₂ O
Inspiration plateau	OFF, 1-50%
SIGH	OFF, 1-5/100
Oxygen concentration	21%-100%
Ptrigger Range	-20-20cmH ₂ O (PEEP)
Ftrigger Range	0.3-30L

PEEP

Type	Integrated, Electronic control
Range	OFF, 3-40cm H ₂ O

Parameter monitoring

V_t, V_e, P_{peak}, P_{mean}, P_{plateau}, PEEP, NIF, FlowIMax, FlowEMax, F_{rep}T, F_{rep}Sp, F_{rep}M, MVsp, MVleak, V_{tr}deep, P_{tr}ideep, RVR(RSBI), R_i, R_{ex}, C_s, C_{dyn}, WOB, RC_{exp}, FiO₂, CO₂(Optional).

Alarm Limits - Visual / Audio

No tidal volume, MV, Paw, FiO₂, limitation O₂, Air failure, AC power failure, backup low

Pre-setting functions

Language	ENGLISH
Calibration	AUTOMATIC

Typical function

Auxiliary Suction function	Optional
O₂ remedy	Up to 60 L/min **Optional**

Nebulization

Environmental Conditions

Operating Temp	5°C ~ 40°C
Storage Temp	-10°C ~ +40°C
Humidity	<= 80%
Atmosphere pressure	960 hPa ~ 1040 hPa

Note: specification subject to change without prior notice



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