



ESV-SPIRIT 3100A

ICU Ventilator



INTENSIVE CARES



ESV-SPIRIT 3100A

ICU ventilator



- Removable 15 inch large touch screen
- Day and night mode change
- Applied for adult, pediatric and infant
- Professional separated non-invasive module, support leakage compensation
- Automatic alarm setting adjusting
- Pre-set ideal weight
- Assistant Nebulization treatment/O₂ remedy
- Multi-mode ventilation function (VCV, V-SIMV, P-SIMV, V-SIMV/PSV, PSV, PCV, CPAP, APNEA, BIPAP, APRV, PA-VC, SIGH)
- The simplest interface boots a precise control and convenient operation
- Advanced air compressor for air input
- Self testing and calibration
- Trends record and event log
- Customized monitoring windows
- Auto-wash for exhaust valve

TECHNICAL FEATURES

Physical specifications	
Dimensions	45x55x140cm
Weight	65kg
Casters	Front wheels with lock
Screen	Removable, hang-up type
Display	Colour LCD, 15 inch with day/night mode
Display graphics	Waveforms of P-T, F-T, V-T
Loops	P-V, F-V, F-P
Screen control	Touch screen
Air Compressor Specifications	
Power	AC 220V±10%, 50Hz±2%
Output pressure	0.4±0.1MPa
Noise	≤ 50dB
Ventilation Modes	
VCV	Volume control ventilation
APNEA(A/C)	APNEA Assist Control
V-SIMV	Volume-SIMV
P-SIMV	Pressure-SIMV
V-SIMV/PSV	Volume-SIMV/Pressure Support Ventilation
MANUAL	Manual
CPAP	Continuous Positive Airway Pressure
PA-VC	Pressure Auto-Volume control
PCV	Pressure Control Ventilation
PSV	Pressure Support Ventilation
APRV	Airway Pressure Release Ventilation
BIPAP	BIPAP
SIGH	SIGH
O₂ Remedy	Oxygen remedy
Ventilation Parameters	
Tidal Volume range	10-2000ml
Pressure range	5-80cm H ₂ O
Respiration Rate Range	1-150bpm (1-40bpm under SIMV)
Inspiration time	0.2-12s
Oxygen concentration	21%-100%
Ptrigger Range	-20-0cmH ₂ O (PEEP)
Apnea Ti Range	0-6s

PEEP	
Type	Integrated, Electronic control
Range	0-40cm H ₂ O
Parameter monitoring	
Vti, Vte, I:E, Freq, PEEP, Pplat, Ppeak, Pmean, MV, Resistance, Exp R, Compliance, Dynamic C, FiO ₂ , Ptri depth, Ftri depth, RSBI (Optional-FiCO ₂ , EtCO ₂ , C20/C)	
Alarm Limits - Visual / Audio	
No tidal volume, MV, Paw, FiO ₂ , limitation O ₂ , Air failure, AC power failure, backup low	
Pipeline Supply	
Gas configuration	Air, O ₂
Pipeline input range	280-600KPa
Battery Power	
Run-time	Typical 120 mins
Type	Lead-acid 12V, 4Ah
Pre-setting functions	
Language	ENGLISH
Calibration	Touch pad / Flow rate / pressure / FiO ₂
General settings	Password, time, day&night mode, brightness setting, record history
Applications	
Patient therapy type	Adult/Pediatric Invasive Adult/Pediatric Non-Invasive
Assistant therapy	
Therapies	Nebulization treatment O ₂ Remedy (Optional)Auxiliary suction
Interface specifications	
Communication port	RS-232, HDMI, Ethernet, USB
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



ESSE3 srl, Via Garibaldi 30
14022 Castelnuovo D.B. (AT)
Tel +39 011 99 27 706
Fax +39 011 99 27 506
e-mail: danielec@esse3-medical.com
web: www.esse3-medical.com

