



ESV-5230

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INTENSIVE CARES



ESV-5230

Automatic ventilator

Cod. **ESV-5230**



Ventilation Mode

Typical ventilation mode with BIVENT and PRVC, fully meet the demands of critical care mechanical ventilation



Monitoring

Waveforms and loops display with powerful monitoring function gathers comprehensive patient information



Clinical Support

Complete manual interventions include inspiratory and expiratory hold, manual ventilation, synchronized nebulizer and smart suction



Information Gathering Function

ESV-5230 can be updated through Internet or USB ports Efficient transport of patient information meets the need of digital hospital



15" TFT Touch Screen With Navigation Wheel

With a 15" TFT touch screen and a simple intuitive interface, the user can easily complete the entire operation



Guide-way Operation

Guide-way operation function boots the operation efficiency and patient safety



Advanced Pneumatic System

The technologic pneumatic System ensures the accuracy of oxygen and gas delivery



Exhalation Valve

Metal made autoclavable exhalation Valve with built-in flow sensor fulfills the needs of low maintenance cost





Admission



Invasive



Stable



Non-Invasive



Weaning

Invasive Ventilation

- Provide proper mechanical ventilation support with lung protective ventilation strategies
- ATC reduces the resistance caused by either endotracheal tube or tracheostomy tube, lowers patient work of breathing



Monitoring

- 3 waveforms and 3 loops
- Alarm/Event records description of each alarm and provides information of any changes of settings. Trend function provides 72h of full patient data. Convenient for information search and shift management



- Bivent mode provides two levels of continuous positive airway pressure (CPAP) with pressure support breaths, suitable for more types of patient



Lung Mechanics

- Measures static compliance, air resistance, PEEPi, P0.1 and time constant to help the doctor evaluate treatment outcome



Non-invasive Ventilation

- Proper use of NIV decrease the need for intubation reduces the patient weaning time
- ESV-5230 includes NIV ventilation as a standard feature. Users have the flexibility to use ESV-5230 for both invasive and non-invasive therapy to reduce equipment costs



Thoughtful Configure Solution

- Depending on ICU environment, ESV-5230 can be equipped with air compressor on mobile cart and ceiling pendant
- The design of integrated power supply solution with circuit breaker provides more protection of the ventilator, air compressor and humidifier





Technical Features

Ventilation Settings

Ventilation Modes

- VCV (A/C)
- SPONT/CPAP + PSV
- Non-invasive ventilation: NIV/CPAP+PSV, NIV/PCV
- PCV (A/C)
- BIVENT/APRV + PSV
- PRVC (A/C)
- SIMV (VCV/PCV/PRVC) + PSV

Parameters

• Tidal Volume (VT)	10-2500 ml	• Psupport	0-90cmH ₂ O
• Respiratory Rate	1-120/min	• Pcontrol	5-90cmH ₂ O
• Inspiration Time	0.2-9 s	• Esens	5%-80%
• Inspiratory Pause Time	0-4 s	• Inspiratory hold	Yes
• Tslope	0-2 s	• Expiratory hold	Yes
• Thigh	0.2-30 s	• Manual inspiration	Yes
• Tlow	0.2-30 s	• Waveform freeze	Yes
• FiO ₂	21%-100%	• Nebulizer	30 or 45 min
• PEEP	0-50 cmH ₂ O	• Suction	Maximum 3 min

Monitoring

• Pressure values	Pmin, Pplat, Pmean, Ppeak, PEEP
• Volume / flow values	VTi, VTe, MV, MVspont, Leak%
• Time values	ftotal, fspont, I:E, Tc, Tispon
• Oxygen monitoring	O ₂ sensor
• Weaning parameters	dynamic and static compliance, resistance, PEEPi, P0.1, RSBI, WOB

Alarms

MV: High/low; Vti: High; Airway pressure: High/low; Continuous airway pressure: High;
PEEP: High/low; fspont: High; FiO₂: High/low; EtCO₂: High/low; Tapnea

Physical Specifications

• Screen	15" TFT color touch screen (detachable)
• Dimension	575X370X470 mm
• Weight	30kg
• Gas supply	O ₂ , Air, 200kPa-650kPa (29-94 PSI)
• Power supply	100 – 240V, 50 – 60 Hz
• Back-up battery	Built-in battery, optional 2nd internal battery
• Communication interfaces	USB*2, RJ45*1, RS232*1, real-time VGA output
• Temperature	10 – 40°C (Operation) -20-60°C (Storage)



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