




ESV-5000

Automatic ventilator



- 15 inch colour LCD monitor, touch screen setting, big font display for easy review.
- Functions provided for different patients in ICU through membrane switch.
- Applicable to pediatric (> 5kg) and adult.
- Various ventilation modes - VCV, PCV, SIMV+VCV, SIMV+PCV, PSV, SPONT, PRVC (optional), BIPAP(optional) and NPPV(optional).
- Tidal Volume: 20-2000 mL(VCV). (only for **ESV-5000D**).
- Only the current useful controlling parameters are shown in each ventilation mode and the main controlling parameters can be adjusted directly through main screen.
- Microprocessor controlled.
- 18 monitoring parameters; 7 graphs monitoring and displaying.
- Excellent performance of imported proportional valves combining the air and oxygen.
- Powerful extended function with optional CO₂&SpO₂ monitoring.
- Expiration valves can be disassembled for cleaning and sterilization in order to preclude cross infection.
- Navigation wheel for convenient and simple operations.
- Close-loop control system provides airway compliance and leakage compensation, so as to realize accurate ventilation control.
- Key components, especially flow sensor, pressure sensor, pressure-regulating valve and proportional valve are imported from world leading manufactures to ensure high accuracy and stable performance.
- Three-priority alarm for different risks with different visual and audio signs.

TECHNICAL SPECIFICATIONS

Cod.	ESV-5000C (model without tidal volume) ESV-5000D (model with tidal volume)
Patients	New borns (> 5kg), pediatric and adult
Ventilation mode	VCV, PCV, SIMV+VCV+PSV, SIMV+PCV+PSV, SPONT, Standby. <u>Optional:</u> BIPAP, PRVC, NPPV(NIV)
Setting parameters	
V_T (only for ESV-5000D)	20 ~ 2000 ml
f	1 ~ 100 bpm
T_i	0.1 ~ 10 s
Pressure trigger	-20 ~ 0 cmH ₂ O
Flow trigger	0.5 ~ 20 L/min
Pressure control	5 ~ 70 cmH ₂ O
Pressure support	0 ~ 70 cmH ₂ O
High pressure	5 ~ 70 cmH ₂ O
Low pressure	0 ~ 50 cmH ₂ O
FiO ₂	21% ~ 100%
E-PEEP	0 ~ 50 cmH ₂ O
Monitoring parameters	V_{Ti} , V_{TE} , MV, MV_{spon} , f, f_{spon} , I:E, P_{peak} , P_{mean} , P_{plat} , P_{min} , FiO ₂ , C, R
Waveform	Standard: P-T, F-T, V-T Optional: SpO ₂ -T, EtCO ₂ -T
Loop	Standard: V-P, F-V, F-P Optional: V-EtCO ₂
Alarm setting	Low tidal volume, high/low limit of minute ventilation, high/low limit of frequency, high/low limit of FiO ₂ , high/low limit of airway pressure, high continuous airway pressure, apnea, O ₂ failure, air supply failure, mains failure, battery low capacity, and battery exhausted.
Alarm mute	< 120s
Optional functions	
CO ₂ module	Respironics CAPNOSTAT 5 mainstream CO ₂ module Monitoring range: 0 ~ 99 mmHg Alarm range: - High limit: 1 ~ 99 mmHg, OFF - Low limit: OFF, 0 ~ 98 mmHg
SPO ₂ module	SPO ₂ range: 0 ~ 100% Pulse rate range: 30 ~ 250 bpm SPO ₂ alarm range: 80% ~ 100%
Physical Features	
Screen	15 inch LCD colour touch screen
Communication connector	VGA, RS232, RJ45 debugging interface
Dimension	710x915x665 mm (H x W x D)
Net weight	45 Kg
Power	100 to 240 VAC 50/60Hz, 1A(Max.)
Lithium Battery	60 minutes
Standard accessories:	
<ul style="list-style-type: none"> - Mobile trolley - Heater Humidifier - Articulated arm for patient circuit - Accessories basket - AIR and OXYGEN feeding hoses - 4 mt power cable - Autoclavable patient circuit - All accessories for installation and commissioning 	
	
Optional:	
<ul style="list-style-type: none"> - BIPAP function - PRVC function - NPPV Function (NIV) - "Touch screen" function - Internal nebulizer - Medical air compressor - SpO₂ Module - CO₂ RESPIRONICS Module - Nebulizer - Suction unit 	



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

