







ESV- serie AUTOMATIC LUNG VENTILATORS

Model	ESV-510	ESV- 920	ESV-935
Appearance			
Technical Data			
Patient type	Adult & Pediatric	Adult & Pediatric	Adult & Pediatric
driven mode	pneumatically driven and electronically controlled	pneumatically driven and pneumatically controlled	pneumatically driven and pneumatically controlled
Ventilation mode	A/C,SIMV,SPONT,Manual,A/C+SIGH	IPPV, Suction (optional)	A/C, MANUAL,Suction (optional)
Tidal volume	0~1500ml	/	/
I:E ratio	2:1 to 1:4	1:1.5	1:2
Breath rate	4~99bpm(A/C mode)	10~35bpm	10~60bpm
SIMV breath rate	4~40bpm	/	/
Trigger sensitivity	Pressure:-2 ~ 0kpa(above PEEP)	/	Pressure:-3 cmH2O
PEEP	0.5 ~ 2kpa	/	/
FiO2	48% ~ 100%	60%, 100%	60%, 100%
Gas supply	O2, 0.28~ 0.6Mpa	O2, 0.28~ 0.6Mpa	O2, 0.28~ 0.6Mpa
Power supply	AC110~240V,50Hz/60Hz,≤50VA	/	/
Compliance	≤4mL/100Pa	≤4mL/100Pa	≤4mL/100Pa
MV	/	3~ 20L/min(used in 60%)	3~ 20L/min(used in 60%) 3~ 14L/min(used in 100%)
Monitoring			
Parameters monitored	Ppeak, Vt, MV, ftotal,	Paw	Paw
Waveforms displayed	P-T	/	/
Alarm	Paw high, Paw low,Apnea,AC power failure,Battery low,O2 deficiency,system fault,none-Vt	/	Paw high, O2 supply down
Alarm silence	≤120s	/	/
Alarm type	Visual & audiale alarm	Audiable alarm	Visual & audiale alarm
Press safety valve	≤6Kpa	≤6Kpa	≤8Kpa
Interface			
Monitor/resolution	LCD display	/	/
Setting	knob,press knob	knob	knob,press knob
Physical parameters			
Dimension	175 x 170 x 300mm	110 x 256 x 142mm	110 x 256 x 142mm
Weight	3.5kg	2.65kg	2.4kg
Noise of whole set	≤65dB(A)	≤65dB(A)	≤65dB(A)
Work condition			
Oper. Temperature	-10 ~ 50°C	0 ~ 40°C	-18 ~ 50°C, non-condensing
Storage temperature	-20 ~ 55°C	-20 ~ 55°C	-20 ~ 55°C
Operational Humidity	30% ~ 70%	15% ~ 95%	15% ~ 95%
Storage humidity	≤93%	≤93%	≤93%
Air pressure	70 ~ 106Kpa(operation) 50 ~ 106Kpa(storage)	70 ~ 110Kpa(operation) 50 ~ 110Kpa(storage)	70 ~ 110Kpa(operation) 50 ~ 110Kpa(storage)

Model	ESV- 590	ESV- 530	ESV- 520	ESV-305
Appearance				
Technical Data				
Patient type	Adult & Pediatric	Adult & Pediatric	Adult & Pediatric	Adult & Pediatric

driven mode	pneumatically driven and electronically control	electronically driven and electronically controll	pneumatically driven and electronically control	pneumatically driven and electronically control
Ventilation mode	A/C (VCV, PCV), SIGH, VCV+SIGN, V-SIMV, P-SIMV, SPONT, PSV, CPAP	A/C(VCV), A/C(PCV), SIGN, SIMV, PSV, SPONT, CPAP	A/C,SIGH,SIMV,SPONT,CP AP	A/C, SIGH, SIMV, SPONT, MANUAL
Tidal volume	50~1500ml	50~1500ml	50~1500ml	50~1200ml
I:E ratio	4:1 to 1:9		2:1 to 1:4	2:1 to 1:6
Breath rate	4~100bpm		1~70bpm	4~99bpm
SIMV breath rate	1~40bpm		1~40bpm	1~40bpm
Inspiratory time	0.1~12s		0.2s~6s	//
Pause time (Tp)	0~4s		0~2s	//
Trigger sensitivity	Pressure, -20~0cmH2O; Flow, 0.5~20L/min	Pressure; Flow	Pressure:-20cmH2O ~ 0cmH2O Flow:2~30LPM	
PSV	0~60cmH2O			
PCV	5~60cmH2O			
High pressure	20~80cmH2O			
Low pressure	0~20cmH2O			
PEEP	Electronic, 0~40cmH2O	0~30cmH2O	0~20cmH2O	0~20cmH2O
FiO2	21%~100%	21%~100%	45%~100% continue adjustment	48%~100%
Nebulizer device	ON/OFF (optional)			
monitoring				
Parameters monitored	Vti, Vte, MV, FiO2, Ppeak, Pplat, Pmean, PEEP, Ftot, Fspont, MVspont, Compliance, Resistance	Vte, MV, FiO2, Ppeak, PEEP, Ftotal, Fspont, Psens	VT,MV, Ftotal, Ppeak,Pmean,CPAP,PEEP, FiO2(option),P-T,Vt Bar	Ppeak,Vt,MV,Ftotal, Pressure-Time.
Waveforms displayed	P-T, F-T, V-T, P-V Loop, V-F Loop	P-T, F-T, V-T	P-T	//
Alarm	Low oxygen supply pressure, low air supply pressure, MMV high/low limit, Vti high limit, spont breath rate high limit, Paw high/low limit, apnea, power failure, FiO2 high/low limit, low battery, CPAP,	Paw low/high limit, CPAP high, low air supply pressure, MV high/low limit, Vte high limit, spont breath rate high limit, FiO2 high/low limit, apnea, O2 deficiency, technical alarm, A/C input failure, low battery	Paw high/low limit,apnea, MV high limit, MV low limit(off),Vt low limit(off), low gas supply,FiO2 high limit(off),power failure, alarm silence	MV high,MV low, Paw high, Paw low,CP high,No Vt,FiO2 high, FiO2 low,Apnea,AC power lost, Battery low,O2deficiency,system failure
Alarm silence	≤120s	≤120s	≤120s	≤120s
Alarm record	100 events	100 events	100 events	
Alarm type	red, yellow and blue, three level	red, yellow and blue, three level		red, yellow and blue, three level
Pressure safety valve	≤8Kpa	≤8Kpa	≤8Kpa	≤8Kpa
interface				
Monitor/resolution	10.4" Color TFT Screen	8" Color TFT Screen	10.4" Color TFT Screen	5" LCD display
Setting	knob	knob	knob	knob
Keyboard lock	yes	yes		//
Night mode and day mode		night mode and day mode		//
whole set				
Dimension	400 x 350 x 300mm	400 x 350 x 300mm	400 x 350 x 300mm	320 x 260 x 80mm
Weight	15Kg (main unit)	15Kg (main unit)	15Kg (main unit)	3kg(main unit)
Noise of whole set	<65dB(A)	<65dB(A)	<65dB(A)	<65dB(A)
work condition				
Working Temperature	5~40°C	5~40°C	5~40°C	5~40°C
Storage temperature	-10~55°C	-10~55°C	-10~55°C	20~55°C
Operation Humidity	30%~75%	30%~75%	30%~75%	30%~75%
Storage humidity	≤93%	≤93%	≤93%	≤93%
Air pressure	50~106Kpa		50~106Kpa	50~106Kpa



ESSE 3 Via Garibaldi 30
14022Castelnuovo 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

