



ES-6000 ANESTHESIA WORKSTATION



Pulse Healthcare Technology

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TECHNICAL FEATURES

- ┘ CE marked.
- ┘ Applicable to Neonate(>5kg) , pediatric and adult.
- ┘ High accuracy 6tubes Mechanical flowmeter
- ┘ Extended function: Optional anesthetic agent module, CO₂ module, SpO₂ module & AIMS
- ┘ Highly integrated absorber, autoclavable in 134°C to avoid cross-infection(optional)
- ┘ The standard absorber could be automatically heated, to avoid water condensation.
- ┘ 15 inch touch screen & big font display for easy review.
- ┘ Touch screen + navigation wheel for simple operation.
- ┘ AGSS(Anesthesia Gas Scavenging System) is optional

Optional AIMS.

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Reliable Quality

- > Vaporizer with CE mark and with automatic compensation for temperature, pressure and flow. Interlock for two positions to ensure anesthetic accuracy.
- > World leading brands of flow sensors, differential pressure sensors, pressure regulating valves and proportional valves to ensure accurate ventilation.
- > Close-loop control to offer real-time compensation for fresh gas, absorber compliance and system leakage.
- > Patented technology of proportional valve, simultaneous monitoring of inspiration and expiration
- > Safe valves for gas supply, driving gas and fresh gas; multiple pressure and volume protection.
- > Audio and visual alarms with three levels.

Mechanical flowmeter

- ┘ 6 tubes for high accuracy

Independent AGSS connector

- ┘ Deal with exhaust gas to reduce pollution.
- ┘ Meet requirements of laminar flow clearing operation rooms.

Highly integrated absorber

- ┘ Patented automatic absorber heating technology to avoid water condensation.
- ┘ By-pass to change CO₂ canister during operation.





Large user interface

- 15 inch TFT touch screen & big font for distance review.
- With parameters setting/display and graphic display in the screen.

Easy operation

- Touch screen + navigation wheel; convenience & simple
- “Choose-set-confirm” to realize function and avoid mis-operation.

Comprehensive Function

Excellent anesthesia ventilator

- > For patients at different ages, neonate(>5kg)、 pediatric and adult.
- > Various ventilation modes: VCV, PCV, SIMV+VCV+PSV ,SIMV+PCV+PSV, Manual, Standby

Powerful extended function (optional)

- > Swedish PHASEIN mainstream anesthetic agent module; 5 anesthetic agents+CO₂+N₂O automatic identification and concentration monitoring.
- > Swedish PHASEIN mainstream CO₂ module; simultaneous real-time monitoring of inspiratory and expiratory CO₂.
- > SpO₂ module for SpO₂ monitoring; optional SpO₂-time waveform.



Sophisticated monitoring

- > Respiratory parameter monitoring
- > Resistance(R), Compliance(C), PEEP, I:E
- > (optional) SpO₂, PR, FiO₂
- > (optional) CO₂, N₂O, anesthetic agent
- > Waveform: P-T, F-T, V-T, SpO₂-T (optional), CO₂-T(optional).
- > Loop: V-P, F-V, F-P; Optional: V-CO₂.

Anesthesia information management system (optional)

- Advanced electronic pathology.
- Fully record operation events and dosages.
- Standard medicine statistics and analyzer for anesthesia control and clinical research.

Specification

ES-6000

Anesthesia ventilator

Ventilation mode	VCV, PCV, SIMV+VCV+PSV, SIMV+PCV+PSV, Manual, Standby
Tidal volume(V _T)	20~1500 mL
Frequency (f)	1~100 bpm
I:E	4:1~1:10 (Increment: 0.5)
T _i	0.1~10 s (Increment: 0.1 s)
Inspiratory pause (Tp)	OFF, 5%~50%
E-PEEP	Integrated electronic PEEP OFF, 4~30 cmH ₂ O
Flow trigger (F _{TRIG})	1~15 L/min
Pressure control	5~70 cmH ₂ O
Monitoring parameter	C, R, V _{TE} , V _{TI} , MV, MV _{spn} , f, f _{spn} , I:E, P _{peak} , P _{mean} , P _{plat} , P _{mini}
Waveform	P-T, F-T, V-T, SpO ₂ -T (optional), CO ₂ -T(optional)
Loop	V-P, F-V, F-P; Optional: V-CO ₂ .
Trend	P _{peak} -t, f-t, FiO ₂ -t, MV-t, PEEP-t, VT-t
Alarm setting	VT, MV, f, FiO ₂ , Airway pressure, High continuous airway pressure, Negative pressure, Apnea, O ₂ supply failure, Mains failure, Battery low capacity, Battery exhausted.
Alarm mute	< 120s
Vaporizer	2 stations

Pneumatically

Gas supply	Pipeline: O ₂ , N ₂ O and Air; Yoke: 1x O ₂ ; 1x N ₂ O;
Pressure gauge	3 pipeline pressure gauges and 2 cylinder pressure gauges.
Flowmeter	O ₂ , N ₂ O and Air; Mechanical 6 tubes; O ₂ and N ₂ O linkage and N ₂ O cutoff system.
Bellows volume	Adult, 0~1500 mL, pediatric(optional), 0~300 mL
APL valve	2~70 cmH ₂ O
CO ₂ Canister Volume	1.5 L (1.35 Kg)
By-pass	Automatic; change soda lime during operation.
Bag/vent switch	switch for manual ventilation and mechanical ventilation
ACGO connector	22mm

Extended function

Anesthetic agent monitoring(optional)	Swedish PHASEIN mainstream module; 5 anesthetic agents+CO ₂ + N ₂ O automatic identification and concentration monitoring.
CO ₂ (Optional)	Swedish PHASEIN mainstream CO ₂ module.
SpO ₂ module (optional)	SpO ₂ concentration and SpO ₂ pulse rate monitoring
AIMS (optional)	ADVANTECH medial computer terminal; 17inch LCD with touch screen

Physically

Screen	15 inch TFT touch screen,
Dimension	1450×1000×1330 mm ³ (H×W×D)
Net weight	90 Kg (including framework, absorber and screen)
Power	100 to 240 VAC, 50/60 Hz, 10A(Max.)
Lithium Battery	120 minutes
Communication connector	VGA, RS232, RJ45, debugging interface



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