



ESV-640S

Anesthesia machine

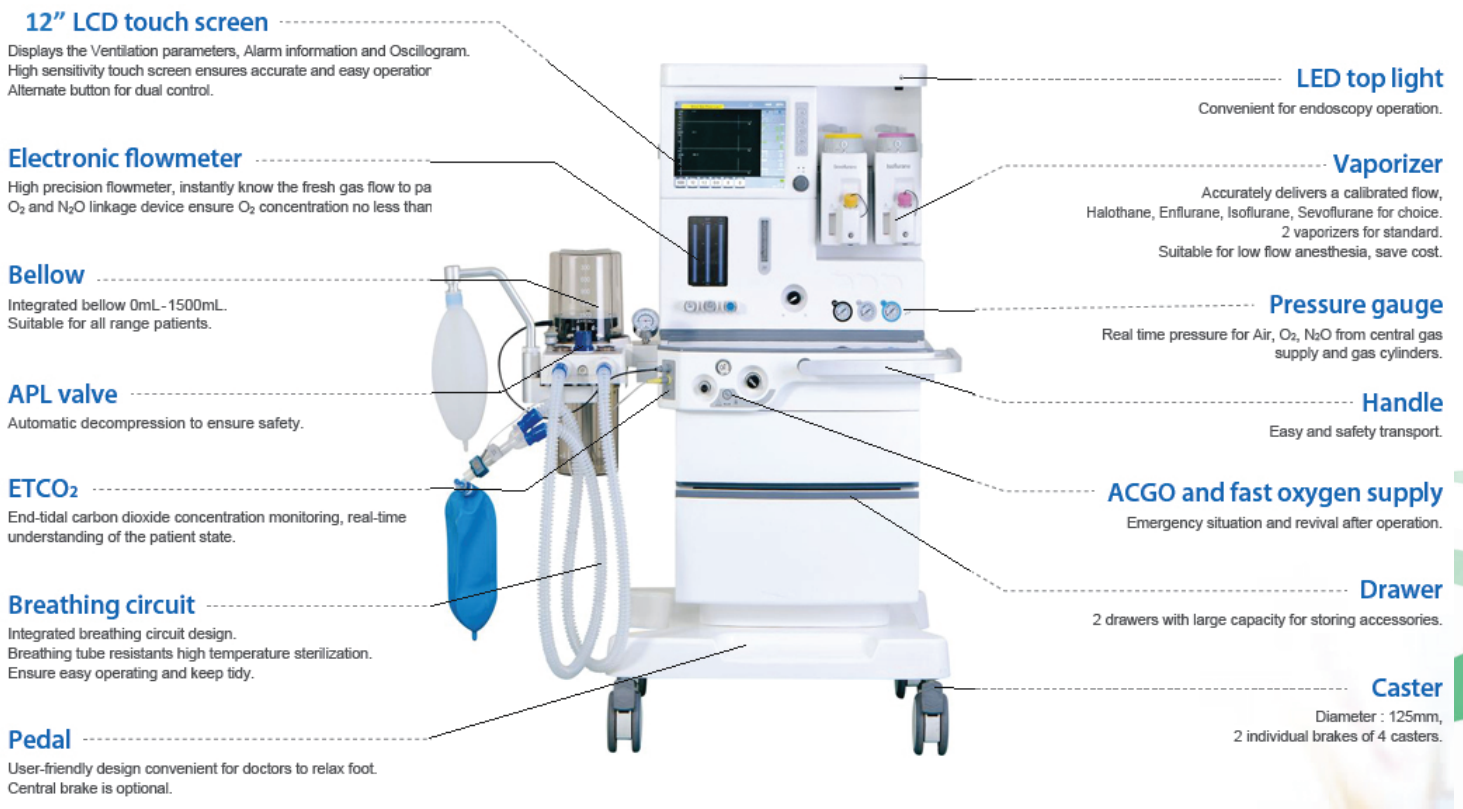


OPERATING THEATRE



APPLICATION

The Anesthesia machine makes a good performance in Intensive Care Units (ICU), Operation room, Anesthesiology Department and other departments. Professional design for adult, child and infant inhalation anesthesia and respiratory management, with advanced ventilation modes. Outstanding ergonomic design, it ranks high level in safety, stability and convenience as well as user experiences. This high-end model combine proven ventilation technology with the latest refinements in ergonomics and systems integration with an advanced, easy to use anesthesia table designed together with experienced experts to streamline your anesthesia workflow.



TRUST POINT

- Patient Centered Ventilation: Precision in an anesthesia ventilator, from conventional ventilation to advanced modes and adapt to wide range patient.
- Safety design: Vaporizer with temperature, pressure, flow compensation and self-lock function.
- Real time pressure-time, flow-time loop Oscillogram and high precision ETCO₂, O₂ concentration detection function included.
- Alarm: Three level alarm system, visual and sound alarm information.
- Power: Built-in battery ensure 2-3 hours using when power failure.
- Separate design of electric circuit and gas circuit ensure long using life.
- Flexible configurations able to customize your requirements.



TECHNICAL SPECIFICATION

Ventilation mode: IPPV, A/C, PVC, PSV, SIMV, SIGH, MANUAL

Flow meter: O₂ (0.1 ~ 10 L/min) - N₂O (0.1 ~ 10 L/min) - AIR (0.1 ~ 10 L/min)
 Rapid oxygen supply: 25 L/min ~ 75 L/min
 Tidal volume (Vt): 0, 20 mL ~ 1500 mL
 Frequency (Freq): 1 /min ~ 100 /min
 I:E: 4: 1 ~ 1: 8
 PEEP: 0 cmH₂O ~ 30 cmH₂O
 Pressure triggering sensitivity (Ptr): -20 cmH₂O ~ 0 cmH₂O (Based on PEEP)
 Flow trigger sensitivity (FTr): 0.5 L/min ~ 30 L/min
 Pressure control (PC): 5 cmH₂O ~ 60 cmH₂O
 SIGH: 0 (off) 1/100 ~ 5/100
 Apnea Ventilation: OFF, 5 s ~ 60 s
 Pressure limit: 20 cmH₂O ~ 100 cmH₂O

Monitoring parameter

Frequency (Freq): 0 /min ~ 100 /min
 Tidal volume (Vt): 0 mL ~ 2000 mL
 MV: 0 L/min ~ 100 L/min
 Oxygen concentration: 15 % ~ 100 %

Oscillogram

P-T (pressure – time)
 F-T (flow - time)
 V-T (volume - time)
 ETCO₂ -T (ETCO₂ - time)
 P-V loop (pressure - volume loop)

Alarm and protection

The AC power failure alarm:	Power failure or no connection
Low voltage alarm for battery backup:	< 11.3 ± 0.3 V
No tidal volume:	≤ 5 mL within 6 s
High oxygen concentration alarm:	19% ~ 100%
Low oxygen concentration alarm:	18% ~ 99%
High Airway pressure alarm:	20 cmH ₂ O ~ 100 cmH ₂ O
Low Airway pressure alarm:	0 cmH ₂ O ~ 20 cmH ₂ O
High Minute Volume alarm:	Adult (5 L/min ~ 20 L/min) - Pediatric (1 L/min ~ 15 L/min,
Low Minute Volume alarm:	0 ~ 10 L/min
Continuous Pressure alarm:	(PEEP+1.5 kPa) over 16s
Suffocation warning:	5 s ~ 60 s no spontaneous ventilation
The maximum limited pressure:	<12.5 kPa
Fan error:	Show on screen
Oxygen deficit:	Show on screen

Working condition

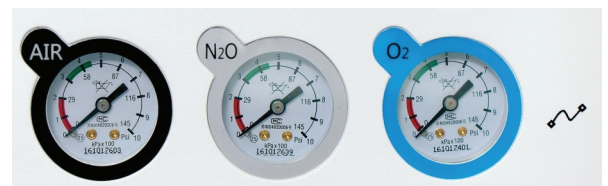
Gas source: O₂, N₂O, Air
 Pressure: 280 kPa ~ 600 kPa
 Voltage: 100 ~ 240 V
 Power frequency: 50/60 Hz

Packing size

Wooden case packing size: L 870 * W 890 * H 1510 mm - G.W.: 195 kg
 CBM: 1.17 m³
 Anesthesia machine N.W.: 124 KGS



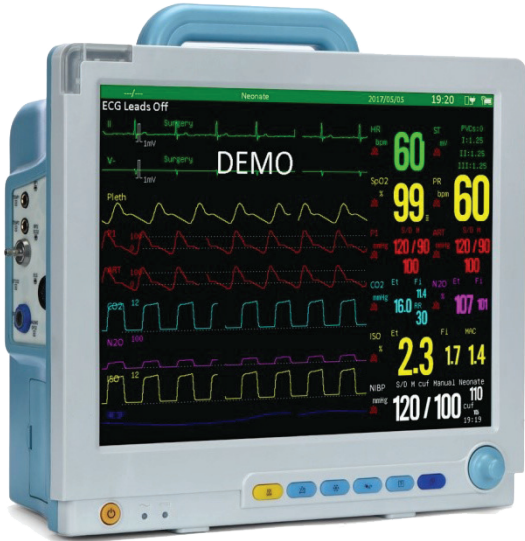
Flowmeter



Pressure gauge



ANESTHETIC MONITOR OPTIONAL



AG5S

Technical Specification:

- Sample Rate: 50mL/min, ±10mL/min
- Operation method: Non-dispersive infrared(NDIR), no moving parts
- Initialization Time: 20 sec, full specification within 60 sec
- Calibration: No routine user calibration required
- Compensation: Automatic for atmospheric pressure, temperature
- Rise Time: Co2<200ms, N2O, AA<350ms
- Respiratory Rate: Range 3~150BMP Accuracy±1BMP
- Breath Detect: Adaptive threshold, minimum 1% 2 value change
- Agent Threshold Agent: 0.15%
- Gases Accuracy:
 - Co2: 0-10% ±(0.2 vol% +2% of reading)
 - 10-15% ±(0.3 vol% +2% of reading)
 - N2O: 0-100% ±(2 vol% +2% of reading)
 - ISO: 0-6% ±(0.2 vol% +2% of reading)
 - ENF: 0-6% ±(0.2 vol% +2% of reading)
 - SEV : 0-8% ±(0.2 vol% +2% of reading)
- Temperature & Humidity:
 - Operating: 0°C to 40°C, 10 to 90%RH, no-condensing

VAPORIZER



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.dreamgest.com

