# ESV-630

## Anesthesia machine

OPERATING THEATRE

# ESV-630

## Anesthesia Machine

### *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.

### *FEATURES*

- Simplicity: 4 static casters with self-locking function.
- Precision in an anesthesia ventilator with multiple ventilation modes: IPPV, A/C, SIMV, SIGH and MANUAL.
- 10.4” TFT LCD screen displays the Ventilation parameters, Alarm information and Oscillogram.
- Vaporizer with temperature, pressure, flow compensation and self-lock function, keep safety anytime.
- Pressure-time, low-time and high precision ETCO2, O2 concentration show in real time.
- ETCO2 and Anesthesia Gas Scavenging System (AGSS) are optional.
- Built-in backup battery provide the emergency power supply to the unit.
- Low O2 pressure alarm and N2O cut-off protection.


*Breathing circuit*


*APL Valve*

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### *TECHNICAL SPECIFICATION*

Ventilation mode: IPPV, A/C, 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
Frequence (Freq): 1 /min ~ 100 /min
I:E: 2: 1 ~ 1: 6
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
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)

**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 cmH2O ~ 100 cmH2O |
| Low Airway pressure alarm: | 0 cmH2O ~ 20 cmH2O |
| 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 920 * W 970 * H 1380 mm - G.W.: 156 kg |
| CBM: | 1.24 m3 |
| Anesthesia machine N.W.: | 102 KGS |

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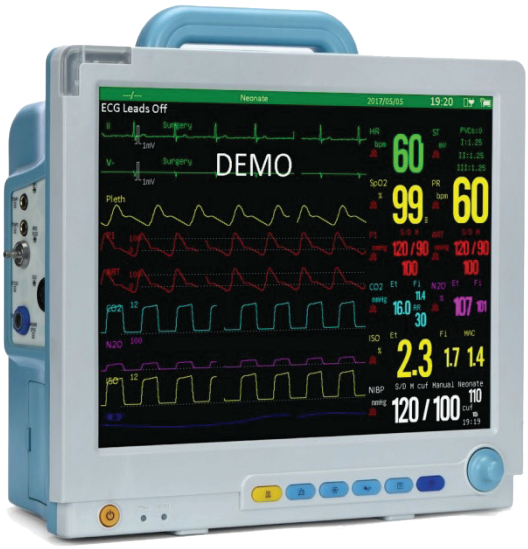
### *ANESTHETIC MONITOR OPTIONAL*




**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℃ to 40℃, 10 to 90%RH, no-condensing

### *VAPORIZER*


**Optional**


**Optional**


**Included**


**Included**

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Swiss Certified ISO 9001
IQS ISO 13485

CE