MEDICAL PRODUCTS

ANESTHESIA MACHINES

Quality System Standard applied: ISO 9001, ISO 13485

CE Certification 93/42/EEC.

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# INTRODUCTION

COMPANY

# ANAESTHESIA MACHINES

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# VENTILATORS

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The Company is one of the best and biggest manufactures in research and development and production of anaesthetic machine, and ventilator in China. The company, adhering to the principle “honesty, cooperation, specialty, innovation” under the enterprise culture of “Solicitude, Gratitude, Elegance, Generosity, Tolerance”, pursues its ambition of becoming a “Professional of Anaesthesia and Respiration” with its wisdom and efforts.

Wide Scope of Products

At present, the products include the following:
- Anaesthesia machine models: Aeon 7500A, Aeon 7200A, Aeon 7400A etc.;
- Ventilator models: SH590, SH 510 and Shangrila 920;
- Surgical Lamp: Aladdin-720/720, Aladdin620/620, Aladdin 520 etc
- Surgical Table: Noah
- Vaporizer and medical air compressor

High-standard Quality Control

Since its establishment, the company has invested much in production management by adopting strict management system and lays out areas of various functions in accordance with the international standards. In July 2002, the company passed the ISO9001 certification examination and was accredited with Beijing High and New-technology Industry Certificate. Within these 3 years, every exporting type of machines of anaesthesia machine, ventilator has CE certificate.

A Very Strong R&D Team

The Company owns the most powerful team for research and development of anaesthetic machine and ventilator in China, and most of the staff members have rich experience in specialized research and development and have original and insightful opinion about the domestic and international market of anaesthetit machine and ventilator. The company bases itself on domestic market and orients toward international markets. All its work of research and development is carried out in accordance with the CE standards. The Company is making efforts to develop itself into the most important production base of anaesthetic machine and ventilator in the world.

In Pursuit of Satisfaction of Customers

The company has been dedicating itself toward becoming “Professional of anaesthesia machine and ventilator” in its industry, and it organizes a customer service network covering China. Meanwhile, the company is also building and perfecting a customer service system aimed at overseas clients. Its stock of spare parts and logistics centre can ensure supply of parts and fittings under any circumstances.

The Company warrants new equipment to be free from defects in workmanship and materials for a period of 12 months (3 months for accessories) from the date of shipment under normal use and service. The Company’s obligation under this warranty is limited to repairing, at Company’s option, any part which upon Company’s examination proves defective.

The warranty shall not extend to any instrument that
1) Has been subjected to misuse, negligence or accidents;
2) Caused by modification or repair by anyone except Company or Company designated person;
3) From which Company’s original serial number tag or product identification markings have been altered or removed
4) or any product of any other manufacturer.
AEON 7500A

- CE certified, designed to comply with EU clinical security standard
- Advanced, professional 10.4” TFT color screen for clinical uses
- Multi-ventilation modes: Standby, VCV, Pressure mode, SIMV, Manual
- Sensitive synchronized flow trigger
- Advanced electromagnetic valve ensures accurate tidal volume and compensation
- Inspiration flow rate control adopts imported electromagnetic flow control valve
- Parameters monitored: P-T, F-T, V-T waveforms & P-V, F-V loops
Ventilation mode: Standby, VCV, Pressure, SIMV (optional), Manual
Tidal volume: 0~1500mL
Breath rate: 4~100bpm
IE Ratio: 1:0.5-1:8
Pressure range: 5~70cmH2O
Inspiratory plateau: 0-50%
Trigger sensitivity: 1~30L/min
High pressure: 21~80cmH2O
Low pressure: 0-20cmH2O
Alarm silence: ≤120s
Parameters monitored: Vt, MV, Paw(Peak, Pplat), Fi02, breath rate
Waveforms monitored: P-T, F-T, V-T waveforms, P-V, F-V loops
Alarm: High/low limit of breath rate, Paw high/low limit, MV high/low limit, low O2 concentration, airway malfunction, power failure.
Safety valve: ≤6KPa
Patient type: Adult & pediatric
Mode: close, semi-close or semi-open
Driven mode: Pneumatically driven and electronically controlled
Setting: Touch key & navigator wheel knob
Display: 10.4" TFT color screen
Flowmeter: O2, N2O, air; 5 tubes; 0-10L/min
O2 flush: 35~75L/min
Two vaporizers (Selectatec compatible)
Power supply: 110V-240V; 50Hz~60Hz
Power consumption: ≤70W
Gas supply: O2, N2O, air; pressure: 0.3-0.5MPa
Dimensions (Lx W * H): 620 mm x 930 mm x 1354 mm
Weight: 140kg
AEON 7400A

- AEON 7400A
  - High quality LED display, with IPPV and Manual Ventilation mode
  - Parameters monitored include Vt, Paw and breath rate
  - Accurate & stable vaporizer output, with flow, pressure and temperature compensation
  - Precise flowmeter, with low-flow range (0 - 1 L/min), and high accuracy (0.05 L/min), meeting low-flow requirement
Technical data:

Ventilation mode: IPPV, Manual
Tidal volume: 0~1500ml
Breathing rate: 6~60bpm
IE Ratio: 1: 0.5, 1:1, 2:3, 1:2, 1:3, 1:4
High airway pressure: 20~60cmH2O
Low airway pressure: 0~20cmH2O
Alarm silence: ≤120s
Parameters monitored: Vt, Paw, breath rate
Alarm: Paw high/low limit, power failure, low gas supply pressure
Safety valve: ≤6KPa
Patient type: Adult & pediatric
Mode: Close, semi-close and semi-open
Driven mode: Pneumatically driven and electronically controlled
Setting: Touch key and navigator wheel knob
Display: High quality LED
Flowmeter: O₂, N₂O; 4 tube; 0~10L/min
O₂ Flush: 35~75L/min
Single vaporizer
Power supply: 110V-240V; 50Hz~60Hz
Power consumption: ≤70W
Gas supply: O₂, N₂O; pressure: 0.3-0.5MPa
Dimension (L*W* H): 620 mm x 890 mm x 1335 mm
Weight: 95kg (without Vaporizer)
AEON 7200A

- CE certificated, designed to comply with EU clinical security standard
- TFT screen display
- Easy setting: button & navigator wheel knob
- Advanced electromagnetic valve ensures accurate tidal volume and compensation
- Multi-ventilation modes: Standby, VCV, Pressure, SIMV, Manual
- Sensitive synchronized flow trigger
- Parameters monitored include \( V_t \), MV, \( P_{aw} \), \( FIO_2 \), breath rate, and compliance
- Waveforms displayed include P-T, F-T and V-T
- Advanced pressure-difference flow sensor ensures instant response
- CE vaporizers
- Solid coating and anti-dust smooth surface
Technical data

Ventilation mode: Standby, IPPV, Pressure, SIMV, Manual
Tidal volume: 0~2000ml
Breath rate: 4~100bpm
SIMV breath rate: 1~39bpm
IE Ratio: 1= 0.5–1= 8
Inspiratory time: 0.3s~9.9s
Inspiratory plateau: 0~50%
Trigger sensitivity: 2~30L/min
Pressure range: 0.5KPa~6KPa
Alarm silence: ≤120s
Parameters monitored: Vt, MV, breath rate, Paw, FiO2
Waveforms monitored: P-T, F-T, V-T.
Alarm: MV high/low limit, Paw high/low limit, Vt high limit, apnea, non-Vt, power failure, self-testing failure, low gas supply pressure.
Safety valve: ≤6KPa
Patient type: Adult & pediatric
Mode: Close, semi-close or semi-open
Driven mode: Pneumatically driven and electronically controlled.
Setting: Touch key and navigator wheel knob
Display: 5.7” LCD color screen
Flowmeter: O2, N2O; 4 tubes; 0–10L/min
O2 flush: 35~75L/min
Two vaporizers (Selectatec compatible)
Power supply: 110V-240V; 50Hz~60Hz
Power consumption: ≤ 50W
Gas supply: O2, N2O; pressure: 0.28~0.6MPa
Dimensions (L *W *X *H): 824 mm x 680 mm x 1382 mm
Weight: 95kg (without vaporizers)
VENTILATORS

SHANGRILA 510

- Shangrila 510
  - For emergency, transportation and short-time treatment uses
  - Ventilation mode: A/C, SIGN, SIMV, SPONT, MANUAL
  - Waveform display and multi-parameter monitoring
  - Flexible power supply: A/C, Vehicle D/C, rechargeable built-in battery
  - Backup apnea ventilation
Tidal volume: 0~1500ml
Breath rate: 4-99bpm
IE ratio: 1:0.5,1:1,1:1.5,1:2,1:3,1:4
Trigger sensitivity: -20~0cmH2O
High pressure: 0-80cmH2O
Low pressure: 0~20cmH2O
FiO2: 48%~100%
Alarm silence: ≤ 120s
Parameters monitored: Vt, MV, Ppeak, Ftot, Psens, A/C power supply, D/C power supply, battery recharging, status of battery
Waveforms displayed: P-T
Alarm: Paw high/low limit, apnea, A/C power failure, low battery
Patient type: Adult & pediatric
Driven mode: Electronically controlled and pneumatically driven
Setting: Navigator wheel knob & touch key
Display: LCD
Noise: ≤65db
Power supply: -220V, 50Hz; -110V, 60Hz; 12V (D/C)
Battery working time: >4 hours
Cylinder: 3.2L, 12MPa; working time ≥90min when MV is 8L/min and FiO2 is 48%
Gas supply: 02, 0.3-0.5MPa, >50L/min
Dimensions: 300mmX170mmX175mm
Weight of main unit: 4kg
Dimensions of machine rack: 500X190X400mm
SHANGRI LA 590

- SHANGRI LA 590 -

- 10.4" TFT color screen
- Advanced detachable screen prevents cross infection
- Ventilation type: VCV, PCV
- Easy setting by navigator wheel knob & touch key
- Three-level light and sound alarm
- Built-in electronic air-oxygen mixing device, ensuring accurate & stable FIO₂ output
- Durable and accurate built-in flow sensor
- Integrated expiration valve, easy to be sterilized
- Backup apnea ventilation
Technical data:

Ventilation type: VCV, PCV
Ventilation mode: A/C, SIGH, SIMV (SIMV+PSV), SPONT+PSV
Tidal volume: 0-1500ml
Breath rate: 4~100bpm
SIMV rate: 1-40bpm
Inspiration time: 0.1~12s
Pause time: 0~4s
Trigger sensitivity: -20 - 0cmH2O
PSV: 0~60cmH2O
Pressure range: 5~60cmH2O
High pressure: 20~80cmH2O
Low pressure: 0~20cmH2O
Ventilation waveform: Square and decelerate waveform
PEEP: 0~40cmH2O • FiO2: 21%~100%
Alarm silence: ≤ 120s
Parameters monitored: Vs, Vte, MV, FiO2, Ppeak, Pplat, Pmean, PEEP, Ft,*, Fspont, MVspont
Waveforms displayed: P-T, F-T
Alarm: O2 failure, air failure, MV high/low limit, Vt high limit, Fspont high limit, Paw high/low limit, apnea, FiO2j high/low limit, power failure
Max. Alarm record: 100
Safety valve: ≤ 8KPa
Patient type: Adult & pediatric
Driven mode: Pneumatically driven and electronically controlled
Setting: Navigator wheel knob & touch key
Display: 10.4” TFT color screen
Power supply: -220V, 50Hz; -110V, 60Hz
Power consumption: £80W
Gas supply: O2, 0.3~0.5MPa, >50L/min
Dimensions: 350mmx400mmx300mm
Weight: 15kg
SHANGRILA 920

- Compact design, one package with cylinder and necessary accessories
- Durable & Flexible
- Simple hose connecting, time saving
- Easy to operate, Suitable for adult & pediatric
- Can be used at emergency department, emergency station, county hospital and clinic. It is also suitable for patient's inter-departmental transfer
Technical data

Main Unit
Pneumatic driven pneumatic controlled
Patient type: Adult, Pediatric
Ventilation mode: IPPV Additional function: Suction

Size and weight
Main Unit: 256 x 142 x 110mm (W x H x D)
Weight: 2.65kg
Portable Box: 400 x 260 x 145mm (W x H x D)
Total Weight (2L cylinder with gas): 9kg

Technical data
Minute Volume: 3~20L/min, continuous adjustable
Breath Frequency: 10~35bpm, continuous adjustable l:E = 1:1.5
O2 Concentration: 60% /100%
Suction Pressure: ≤-50Kpa
Safe Pressure Max: ≤ 6Kpa
Noise: ≤ 65dB
Cylinder Time: ≥ 90Min
Gas Pressure: 0.3 ~ 0.6Mpa (Flow~50L/min)

Standard accessories
Shangrila 920 Main Unit-1
Set 2L Cylinder-1 Pc
Framework & Dustproof Bag-1 Set
Hosing System-1 Set
1.2m Hose-1 Pc
Mask-1 Pc
Adult Fillet-1 Pc
Expiratory Valve-1 Set
Humid Bottle-1 Pc
Oxygen Tube-1 Pc
Suction Tube and Bottle-1 Set
Laryngoscope-1 Pc
Intubator-1 Pc
Teeth Screw Driver-1 Pc
Oxygen Bridge-1 Pc
Handle-1 Pc