

VENTILATORS

JULY - 2008



MEDICAL PRODUCTS

VENTILATORS

Quality System Standard applied: **ISO 9001, ISO 13485**

CE Certification 93/42/EEC.

Arsiconsult
38, Av. Guy de Maupassant
78400– Chatou - France
Tél. : +33.1.30.53.07.11
Email : medical@arsiconsult.com

INTRODUCTION

COMPANY **Page 3**

VENTILATORS

SHANGRILA 510 **Page 4**

SHANGRILA 590 **Page 6**

SHANGRILA 920 **Page 8**

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 anaesthetic 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.



Shangrila 510 Portable Emergency Ventilator

- Compact and portable
- » Pneumatically driven electronically controlled » Suitable for adult & paediatric
- Multi ventilation mode : A/C , SIGH , SIMV , SPONT , Manual
- A LCD screen , display parameters & waveform of patient
- Flexible power supply : mains , external DC and internal battery
- Easy hose Connecting to save time
- Designed for emergency and patients transportation
- Oxygen cylinder with regulator as standard accessory

Shangrila 510 Portable Emergency Ventilator Specification

Main Unit

Pneumatically driven electronically controlled
For adult & paediatric

Setting

Working mode: A/C, SIGH, SIMV, SPONT, Manual

Tidal volume: 0 to 1500 ml

LE Ratio: 2:1 to 1:4

Breath rate: 4 to 99 bpm

SIMV rate: 4 to 40 bpm

Trigger sensitivity: - 20 cmH₂O to 0

O₂ adjustment: 48% to 100%

Safety valve: \leq 6 kPa

Setting: Button & knob

Monitor

LCD display: Pressure waveform

Digital LCD display: Vt, MV, Total frequency, Peak pressure

Status indication: Trigger, AC&DC

Alarm

Apnea

High airway pressure Low

airway pressure Low battery

Power failure

Alarm silence: < 120 seconds

Operation Environment

Power Supply: AC220 V, 50 Hz

Power consumption: 10 VA

Internal battery: > 4 Hours

External power: DC12V

Cylinder: 3.2 L

Operation temperature: 5°C to 40°C

Storage temperature: - 10°C to 55°C

Humidity: \leq 93%

Dimension and Weight

Dimension: 170 mm x 300 mm x 175 mm
(D X W X H)

Weight: 4 kg

SHANGRILA 590



– Shangrila 590 –

- 10.4" TFT color screen
- Advanced detachable screen avoids cross infection
- Easy setting by navigator wheel knob & touch key
- Flow & pressure trigger
- Quick startup function
- Static Compliance & Resistance monitor, Auto PEEP, P-V loop, F-V loop
- Three-level light and sound alarm, with concise words describing problems
- Advanced built-in electronic Air-oxygen mixing device
- Durable and accurate built-in flow sensor
- Integrated expiration valve, easy to be sterilized
- Backup apnea ventilation
- Nebulizer device (Optional)
- Built in battery (Optional)



Technical Data

- Ventilation mode: A/C (VCV.PCV) ,SIGH,SIMV (SIMV+PSV) .SPONT+PSV
- Tidal volume: 50~1500mL
- Breath rate: 4~100bpm
- SIMV breath rate: 1~40bpm
- Inspiratory time: 0.1~12s
- Pause time: 0~4s
- Pressure trigger sensitivity: -20 ~ 0cmH₂O
- Flow trigger sensitivity: 0.5~20LPM
- PSV: 0~60cmH₂O
- PCV: 5~60cmH₂O
- High pressure : 20~80cmH₂O
- Low pressure : 0~20cmH₂O
- Waveforms displayed: P-T,F-T,V-T,P-Vcircle,V-Fcircle:
- PEEP: 0~40cmH₂O
- FiO₂: 21%~100%
- Nebulizer device: ON/OFF (optional)
- Alarm silence: 5 120s
- Parameters monitored: V_{ti}, V_{te}, MMV, FiO₂, P_{peak}, P_{plat}, P_{mean}, PEEP, F_{tot}, F_{spont}, MV_{spont}, Compliance, Resistance
- Alarm: Low oxygen supply pressure - Low air supply pressure - MMV high/low limit - V_{ti} high limit - Spont breath rate high limit - P_{aw} high/low limit – Apnea - Power failure - FiO₂ High/Low limit - Low battery- CPAP
- Alarm record 100 events
- Pressure safety valve: \leq 8kPa
- Power: AC110~240V: 50~60Hz
- Power Consumption: 65VA
- Size (Width X Height X Depth) : 400 X 350 X 300mm .
- Weight: 15Kg (Main Unit)
- Drive mode: pneumatically driven, electronically controlled
- Setting: Knob
- Gas supply: Air&Oxygen,Pressure0.28~0.6MPa, >50L/min
- Temperature:5~40°C :
- Humidity:30~75%
- Air pressure:50~106kpa:



Shangrila 920 Portable Emergency Ventilator

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

Shangrila 920 Portable Emergency Ventilator Specification

Main Unit

Pneumatic driven pneumatic controlled
Patient type: Adult, Paediatric
Ventilation mode: IPPV
Additional function: Suction
Minute volume: 3 ~ 20L/ min, continuous adjustable
Breath rate: 10 ~ 35bpm, continuous adjustable
I: E = 1: 1.5
O₂ adjustments: 60%-100%
Suction pressure: From 0 to -50Kpa
Safe pressure max: < 6Kpa
Noise: < 65dB
Cylinder Time: \bar{T} 50Min
Gas pressure: 0.3 ~ 0.6Mpa (Flow > 50L/min)

Standard Accessories

Shangrila 920 main unit 1 set
2L Cylinder 1 pc
Framework & dustproof bag 1set
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 1set
Laryngoscope 1 pc
Intubator 1 pc
Teeth screw driver 1 pc
Oxygen bridge 1 pc
Handle 1 pc

Technical Data

- 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