



# SK-EH303

## VENTILATOR

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## FEATURES AND HIGHLIGHTS

**Working principle:** Use medical compressed oxygen or air as the impetus to form a mixture of medical oxygen with a certain pressure and ambient atmosphere, and send it into the patient's respiratory tract through the ventilator.

**Basic mode:** It is a pneumatic and electronically controlled ventilator that integrates three modes of timing, constant volume and constant pressure.

**Working mode:** It has two working modes of standby and ventilation. It has two ventilation modes of invasive and non-invasive.

**Trigger mode:** There are two trigger modes: pressure trigger and flow trigger.

**Multiple ventilation modes:** VCV, PCV, PSV, SIMV, CPAP

**TFT-LCD:** Using TFT-LCD, real-time display control frequency, tidal volume, minute ventilation, total respiratory rate, spontaneous respiratory rate, oxygen concentration, average airway pressure, battery power and so on.

**Monitoring waveform:** Pressure-time waveform, flow velocity-time waveform, flow velocity-volume loop, pressure-volume loop.

**Warning function:** When there is an abnormal phenomenon or misoperation of the ventilator, an audible and visual alarm signal will be sent out, and the alarms are divided into low, medium and high priority levels. It has the functions of alarm text prompt, power supply mode display, and inspiration trigger prompt.

### Other

※ With high-performance air-oxygen mixer parts, it can conveniently and accurately adjust the oxygen concentration.

※ With electronic PEEP, PEEP can be adjusted continuously.

※ Adopt high-sensitivity and quick-response pressure sensor and flow sensor to detect, control and display airway pressure and gas flow, and have automatic tidal volume compensation function, leakage compensation <math><12\text{L}/\text{min}</math>.

※ It has the functions of "inhalation platform", "sigh", "manual respiratory" and "inverse ratio ventilation".

※ Even in the case of power failure, the respiratory tube is connected to the external atmosphere, and the patient will not hold his breath.

## Technical parameters

- Size weight size: 380×320×1160 (mm) weight: 50kg

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- Tidal volume 20ml ~ 1800ml adjustable, allowable error:  $\leq 100\text{ml}$ ,  $\pm 20\text{ml}$ , above 100ml ~ 1500ml,  $\pm 15\%$ , above 1500ml  $\pm 20\%$ . Operating mode Cycle closed, semi-closed, semi-open.

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- Maximal ventilation per minute  $\geq 18\text{L}/\text{min}$

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- respiratory rate 2~120bpm, of which 2~100bpm, allowable error:  $\pm 1\text{bpm}$ , other range:  $\pm 2\%$  of the set value.

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- SIMV frequency 2~20bpm, allowable error:  $\pm 1\text{bpm}$ .

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- Respiratory ratio 4:1~1:8, allowable error: 2:1~1:4,  $\pm 15\%$ , other ranges  $\pm 20\%$

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- Suction platform 0~50% of inspiratory time, allowable error:  $\pm 15\%$

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- Sigh (deep respire) Every 60 to 120 controlled respire produces 1.5 times the inspiratory time. Allowable error:  $\pm 15\%$

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- Time control 1~10s. The allowable error is  $\pm 1\text{s}$ . (applied under PSV mode)

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- Maximum Safety Pressure  $\leq 12.5\text{kPa}$

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- Ventilator compliance  $\leq 3 \times 10^{-2}\text{ml}/\text{Pa}$

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- Inspiratory Trigger Sensitivity Pressure:  $-10 \sim 10\text{cmH}_2\text{O}$ , allowable error:  $\pm 2\text{cmH}_2\text{O}$ , or  $\pm 10\%$  of the set value, whichever is greater.

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- Flow rate 1~20L/min, the gradient is 1L/min

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- Exhalation trigger sensitivity Adjustment range: 10% to 90%, with a gradient of 1%. (applied under PSV and PSV+SIMV mode)

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- Positive End Expiratory Pressure 0~25cmH<sub>2</sub>O, allowable error:  $\pm 2\text{cmH}_2\text{O}$  or  $\pm 10\%$  of the set value, whichever is greater.

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- Pressure limit 5~60cmH<sub>2</sub>O, allowable error:  $\pm 2\text{cmH}_2\text{O}$  or  $\pm 10\%$  of the set value, whichever is greater.

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- Pressure control 3~50cmH<sub>2</sub>O, allowable error:  $\pm 2\text{cmH}_2\text{O}$  or  $\pm 10\%$  of the set value, whichever is greater. (applied under PCV mode)

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- Oxygen concentration Adjustment range 21%~98%, allowable error:  $\pm (2.5\% \text{ volume percentage} + 2.5\% \text{ gas concentration})$

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- Flow control The adjustment range is 1 to 10 files, and the gradient is 1 file. (applied under PSV and PSV+SIMV mode)

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- Pressure slope The adjustment range is 1 to 10 files, and the gradient is 1 file. (applied under PCV mode)

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- Storage battery Sufficient conditions can support the continuous working time of the ventilator for not less than 30 minutes.

## Technical configuration

- Respiratory circuit

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- Storage airbag

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- Mask

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- Headband

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- Fuse

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- Flow sampling tube

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- Oxygen concentration sensor

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### Work environment

- Ambient temperature: 10-40°C;
- Relative humidity: 30% to 75%;
- Atmospheric pressure: 700hPa~1060hPa;
- Gas source requirements: oxygen: input pressure range: 280kPa~600kPa, maximum flow ≤200L/mi, rated working pressure: 400kPa;
- Air: Input pressure range: 280kPa~600kPa, maximum flow ≤200L/mi, rated working pressure: 400kPa;
- Power requirements: AC220V 50Hz, built-in battery: DC 14.8V-4.4Ah;
- Input power: 400VA;
- Fuse specifications: network power supply: 5RF/ F5AL250V; lithium battery: 5RF/ F5AL250V.

### Design

Professional design for respiratory management with advanced ventilation modes. Ergonomic design, better safety, stability and convenience.



### Material

The new ABS engineering plastic material has a concise and beautiful appearance and is easy to clean.



### Pressure meter

Use high-quality pressure meter to monitor the output pressure of the air compressor.



### Air compressor

The built-in air compressor with "standby" function can be connected to an external air source. If the central air supply system fails to supply air, the air compressor will provide compressed air; when the central air supply system returns to normal and the pressure is greater than 320kPa, the air compressor will automatically stop supplying air. The oxygen concentration of the ventilator is adjustable from 21% to 98%.



### Host

The host of the ventilator consists of gas circuit, electronic system, model structure, software, and display. Pneumatic electric control, microcomputer technology, and advanced electrical components are used to ensure stable and reliable operation of the equipment. LCD display, intuitive and clear information display, clear at a glance.



### Mechanical arm

The mechanical arm is made of aluminum alloy. The safe working load of the mechanical arm does not exceed 1kg.



### Filter

Used to reduce the amount of particulate matter that a patient inhales or exhales. Increase the moisture content and temperature of the delivered gas.



### humidifier

Nine-speed temperature control system with heating protection function.



### Caster

4\*2.5 inch medical silent casters, 2 wheels with brakes.





## CONSTANT INNOVATION



Design



Research



Manufacturing



Maintenance



Service



## WORLDWIDE BRANCHES

### USA

**Saikang Medical Technology, Inc.**  
17800 Castleton St Ste 180,  
City of Industry, 91748, California.  
Tel.: +1 949648 2776

### United Kingdom

**UK Healthward International Ltd.**  
Dept. 111, 196 High Road Wood  
Green, N22 8HH, London.  
Tel.: +44 2032399738

### Russia

**Saikang Medical Russia LLC**  
Truda 174,  
454080 Chelyabinsk.  
Tel.: +7 (351) 214 5566 / 8811 / 1516

### East Africa

**Saikang Medical Solutions Ltd.**  
Viraj Complex Unit 3, Mombasa  
Road, P.O. Box 14262-00800, Nairobi,  
Kenya.  
Tel.: +254 733 704 690

### Middle East

**Saikang Medical Supplies LLC**  
X22-S03 England Cluster,  
International City, Dubai,  
United Arab Emirates.  
Tel.: +20 128 8962497

**SKSurgitech™**  
by Saikang Medical

Jiangsu Saikang Medical Equipment Co., Ltd.  
STOCK CODE: 870098

📍 No. 35, Lehong Road · Zhangjiagang (Jiangsu) · China

☎️ +86 18021231901 · 🕒 24/7

✉️ export@sksurgitech.com

🌐 www.sksurgitech.com



Company video



General catalogue