

TKR-400A Infant Ventilator With HFJ



(with air compressor and air oxygen mixer)



(Brief)



(air compressor)

Jiangxi TeLi is a leader in the design and manufacture of medical ventilators with high Frequency Jet technology. Our company have 16 years of ventilation experience. And developed close relationships with leading universities, hospitals and other specialists and has created a ventilator that meets the highest standards using innovative solutions to clinical challenges.

High frequency ventilation is a type of mechanical ventilation that employs very high respiratory rates (>60 breaths per minute) and very small tidal volumes (usually below anatomical dead space). High frequency ventilation is thought to reduce ventilator-associated lung injury (VALI), especially in the context of ARDS and acute lung injury. This is commonly referred to as lung protective ventilation.

Our creed is Quality Originates From Specialization. We will continually improve our technical renovation to meet the clients' requirement.

Feature for TKR-400A infant ventilator:

1. Suitable for invasive and non-invasive respiratory treatment of newborn and about 10 year- old child.
2. Adopted opening high frequency ventilation technique, high frequency and small tidal volume ventilation mode.
3. Low airway pressure, little interference to bloodstream reflux, combination of oxygen go up rapidly when ventilation .
4. Oxygen concentration can be adjusted between 21%--95%.
5. LED and digital display.
6. Multi- ventilation mode: HFJV, Pro I & Pro II, PEEP, CPAP, Manual ventilation
7. Micro Processor controlled ventilator
8. Breathing Pathway to be open to atmosphere at all times by means of a venturi system
9. Pressure Support Ventilation (PSV) is designed and used in the weaning process and can be Used without synchronous intermittent Mandatory Ventilation (SIMV)

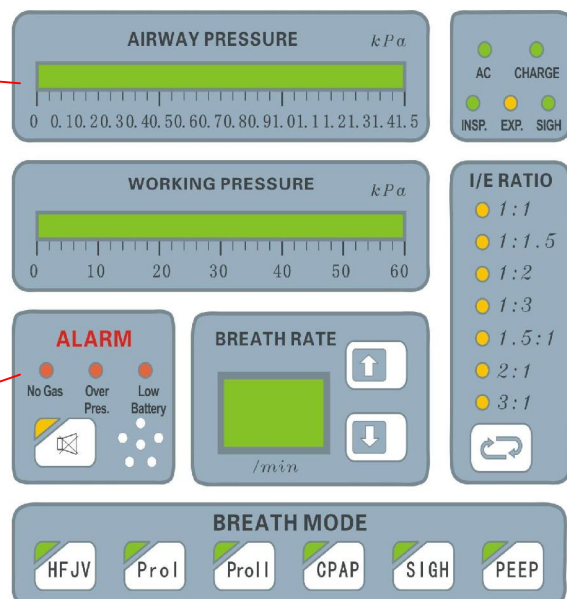
Principle and Functions

Mode Panel

The mode panel is the user's interface to all Mode related functions

Audible and visual Alarms

The alarm panel provides an immediate audible Light of alarm condition, thus allowing easy Monitoring.



Mainframe



(front)



(back)

Principles of working of TKR-400A infant ventilator

The device is a kind of opening high and normal-frequency jet ventilator with pressure regulating and time cycle mode. Its principle is: Under the airway opening state, choosing high pressure gas power (O₂ or compressed air) and high gas flow, rhythmically jet gas into airway by electronic automatically controls, to achieve the purpose of gaseous exchange.

The ventilator adopts opening ventilation mode with high frequency and little tidal volume, so the airway pressure is low and it has little interference to bloodstream reflux, the resisting force is also small when breathing.

Because it is with pressure support function, the ventilator is good to increase the consumption of the function of patient's respiratory muscle. The ventilator also adopts the hardened tube system, small the mechanical dead space, Especially suitable for infants.

Technical Specification

Frequency: 10 ~ 150 bpm

I/E ratio: 1:1 ~ 1:3 and inverse ratio

Driving Pressure : 0 ~ 60KPa

Humidifying rate: 6ml/h

Process Ventilation: T=10min,

Pro I: T1(150bpm):T2(35bpm)=7:3

Pro II: T2(35bpm):T1(150bpm)=7:3

Storage Battery: 4Ah, 12V. Rechargeable

SIGH: 3 breaths/min



Alarm: Alarm with sound and light when lack of power, or the airway pressure is over $1\text{Kpa} \pm 0.2\text{Kpa}$ and alarm will last for 6 seconds when no oxygen

CPAP: 0.1 ~ 0.8KPa PEEP: 0.1 ~ 0.5KPa

Oxygen Concentration : 40% ~ 90%(without gas source)
21% ~ 90%(with gas source)

Ventilation Modes: HFJV;CPAP(Continuous positive airway pressure); Process ventilation ; HFJV+SIGH;HFJV+PEEP; Manual ventilation

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