

❖ Value for owner ship

Multiple Options for Different User

- High-end model R30 have more advance modes of ventilation, option high-end functions like PRVC, NIV, VS, via software update easily.
- Optional famous brand SPO₂, EtCO₂ and nebulizer provide more monitoring reference for Dr.



Easy Maintenance Low Service Cost

- Friendly interface, easy to operation, Low costs spare parts, no more funds tie up.
- Easy maintenance by cartridge type, easy replacement of service parts.
- Simple to maintenance makes efficient daily routine, Software upgrade by USB.
- Rapid respond of after sales service, save your time, reduce the risks.



High Performance Compressor

- Compact size, portable type for easy install.
- User convenient display, enable timely effective operate and maintenance efforts.
- Available to operate in connection with maximum 2 units of ventilator simultaneously. Verified low noise suitable for long term working in ICU, oil free, overheat protection and high performance dehydration design makes this compressor can be isolated as gas supply.
- Safety solution & dust-protection, temperature warning system & Auto/manual shut down.
- High-end air compressor automatically switches from compressor pump and central gas supply.



Pneumatic Ventilator	Operating Conditions
- Display - Respiratory mode - Graphical display - Battery - Data communication port 10.4" TFT display, with touch screen - VCV, PCV, SIMV-VC, SIMV-PC, CPAP/PSV, (Optional APRV, PRVC, VS, NIV) BACKUP - P-T, F-T, V-T (Optional CO₂ time Pulse rate time) loop: P-V, F-V, P-F - NI-MH battery, >90mins - RS232, VGA, USB, Remote Alarm	- Gas supply: Air, O₂, 280kPa-600kPa (40-87 PSI) - Power supply: 100-240V, 50/60Hz - Temperature: 10-40 °C (Operation), -20-60 °C (Storage) - Relative humidity: 5-95%, non-condensing (Operation) ≤95%, non-condensing (Storage) - Atmospheric pressure (Operation & Storage): 500hPa-1060hPa - Dimensions (HxWxD): Ventilator: 455mm x 400mm x 300mm Trolley: 565mm X 535mm X 910mm - Weight: Ventilator: 12.5 kg Trolley: 20 kg
Standards IEC 60601-1, IEC 60601-1-2, IEC 60601-1-8, IEC 60601-2-12	



Alarm	Upper limit	Lower limit
Tidal volume	20-3000 mL	OFF, 20-2999 mL
Minute volume	1-99 L	0-98 L
Oxygen concentration	22-100%, OFF	20-99%
Airway pressure	1-99 cmH ₂ O	0-98 cmH ₂ O
Respiratory frequency	1-120 bpm	OFF, 0-99bpm
SPO ₂	50-99%, OFF	49-99%
ETCO ₂	0.1-13.3kPa	0-13.2 kPa
Pulse rate	31-250 bpm	30-249 bpm
Continuous pressure high	(PEEP+15) cmH ₂ O, 15s	(PEEP+15) cmH ₂ O, 15s
Apnea alarm	15-60s	15-60s
O ₂ SUPPLY DOWN alarm	< 280 kPa	< 280 kPa
Mains failure alarm	Automatically switch	Automatically switch
Battery power low alarm	< 10 min	< 10 min
Battery discharged alarm	< 5 min	< 5 min
Alarm silence	≤120 s	≤120 s

Setting	Parameter	Monitoring	Parameter
Tidal volume (20ml)	20-2500mL	Inspiratory tidal volume	0-4000 mL
Respiratory frequency	1-120 bpm	Expiratory tidal volume	0-4000 mL
Inspiratory time	0.1-12 s	Minute volume	0-99 L/min
Breath-hold time	0-50%	Spontaneous minute volume	0-99 L/min
Pressure triggering	-20cmH ₂ O-PEEP 0	Spontaneous respiration frequency	0-120 bpm
Flowrate triggering	0.5-20 L/min	PEEP	0-100 cmH ₂ O
PEEP	0-50 cmH ₂ O	Airway peak pressure	0-600cmH ₂ O/L/S
Pressure support	0-80 cmH ₂ O	Mean airway pressure	0-100 cmH ₂ O
Pressure control	5-80 cmH ₂ O	Inspiratory platform pressure	0-100 cmH ₂ O
High pressure level	5-80 cmH ₂ O	Minimum airway pressure	-20-100 cmH ₂ O
Low pressure level	0-50 cmH ₂ O	Inhaled oxygen concentration	15% -100 %
Oxygen concentration	21-100%	Airway resistance	0-600 cmH ₂ O/(L/S)
100% O ₂	2min	Compliance	0-300 mL/cmH ₂ O
Thigh	0.1-30s	RSBI	0 - 9999 bpm/L
Tlow	0.3-30s	PEEPi	0-100cmH ₂ O
freeze	Yes	SPO ₂ (Optional)	0-100%
Expiratory hold	Yes	Pulse Rate (Optional)	30-250 bpm
Inspiratory hold	Yes	EtCO ₂ (Optional)	0 - 100 mmHg
Manual inspiration	Yes		

SIRIUSMED

Care for today, Health for tomorrow

Beijing Siriusmed Medical Device Co., Ltd.

A-501, Building 17, No.8 Liangshuihe 2nd Street, Yizhuang Economic-Technical Development Area, Beijing, China.

Tel: 0086-10-87576012 Fax: 0086-10-87576012 E-mail: sales@siriusmedica.com



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SIRIUSMED

Care for today, Health for tomorrow

Critical Care Ventilator



R30

Critical Care Ventilator for ICU
10.4" Touch screen Color TFT

Friendly interface

16.4" TFT touch screen, with rotary knob,
High resolution display suit for long-term application in ICU.

Keyboard lock

Prevent accidental touching leads to parameter changes and endanger patient safety, use this key to lock operation interface.

Active Exhalation Valve

Activate breathing during both inspiratory and expiratory. Actively control the target pressure, prevent airway pressure high, promote patient ventilator synchrony.



Optional Features

EtCO₂, FICO₂, SpO₂ and Pulse Rate can be accurately measured. The performance of the partial CO₂ rebreathing technique can be improved by means of external blood gas sampling and an algorithm that takes in account the effects of non-equilibrium of PaCO₂ during rebreathing.



Integrated nebulization

Air flow control part supplies air flow for ventilator nebulization function, the flow 6 ~ 10 l/min.



Freeze

All the data reserved can be review by adjust the light axis, it's record volume, pressure, flow etc.

Advanced Features

Inspiration hold, after the breath, the special function display area will show the value of system static compliance (Cst) measurements.
Expiration hold, After using this key special features will display the measured intrinsic PEEP on the device display interface area.

High Quality Components

World leading brand components ensure faster and accurate O₂ & Air delivery in proportion and reduce WOB, to ensure high accuracy and stable performance.

Trend graphic

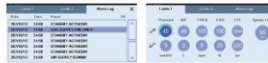
Up to 72 hrs trend graphic for patient management, multiple monitoring data can be switching for trend graphic.

Trend table

Patient data will be trend in table, 7 column data can be modified to monitor patient's status. Customized data column for user's convenience.

Multiple Alarm System

Well-organized display layout visualizes all relevant respiratory parameters. The patient's vital signs can be assessed quickly and comprehensively.



- Color coded display for numerical, graphic, alarm and system message.
- Quick relief: no need frequent interaction from operators.
- Patient settings automatic stored and can be restored quickly.
- Direct setting of ventilation parameters in main interface.
- Easy and fast choice functions and one step start.
- 3 waveform and loops on one interface, quick changeover.
- System log can record 100 settings/alarms.
- With the improvement of the patient, it's easy to choose multiple mode at anytime.

Mode

R30 built with traditional control mode as VCV, PCV. Synchronized mode based on VCV and PCV plus P_i or Spont mode, advanced mode as PRVC, Duophasic, APRV, VS, to meet all patient population requirement.



DUOPHASIC

DUOPHASIC is a novel mode of ventilation that combines the attributes of mandatory and spontaneous breathing in which the patient has the ability to breathe at two levels of PEEP with or without P_i. Due to its ability to allow unrestricted spontaneous breathing at any moment of the ventilation phase it improves patient ventilator synchrony.



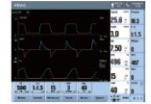
Suction

The FIO2 can be set in R30 suction procedure. Three phases suction support will be performed to verify patients SpO₂. Smart detection will switching automatically for patient disconnection and reconnection.



PRVC

PRVC is a control mode which deliver set rate and volume (VT) to patient. The flow will be delivered as pressure control mode. Inspiratory pressure regulated to achieve the set volume (tidal volume). PRVC will verify patient's minute volume, and protect patient in high peak pressure.



Features

Pneumatically driven and electronically controlled ICU ventilator

Widely usage range: Suitable for adults, paediatrics and infants

Tidal Volume setting 20-2500ml

Sufficient modes of ventilation: VCV/PCV/SBNA-V/SBNA-V

CPAP/SPONT/BACKUP/Option for PRVC/SBNA-PRVC/Duophasic.

APRV/VS/NV)

Friendly user interface: TFT color screen with touch screen;

Knob and Hard key input

Easy to position ergonomic trolley with two brakes

• Easily removable and sterilizable exhalation valve & flow sensor module

Good integration:

- Built-in active expiratory PEEP valve;
- Built-in O₂ & Air mixture device
- Built-in synchronized nebulizer
- Built-in battery (> 90 min)
- Optional SpO₂/EtCO₂ monitoring module
- Lung mechanics parameters and loops
- Inspiratory hold with static compliance measurement
- Expiratory hold with PEEP measurement
- Manual Inspiration
- 100% O₂ suction