***** Ergonomics design anesthesia machine

- More convenient operating and display systems for clinical operations; Suitable for a wide range of anesthesia: adult and infant, (Tidal volume 20-1500mL),
- Electronic PEEP, Imported proportional valve, High precision electronic flowmeter, all ensure the excellent performance, durable, long-term use.
- Highly integrated circuits, the overall heat auto circuit technology to avoid condensation circuit; bypass function, the canister can be replaced in the course of anesthesia, no harmful gas leakage.
- Sufficient monitoring parameter: P_{peak}, P_{mean}, P_{min}, P_{plat}, PEEP Compliance, Resistance, O₂%, EtCO₂, FiCO₂.
- Clinician's health concerns: Independent AGSS exhaust vent and active sewage systems avoid anesthesia gas pollution.
- Complete alarm function to make sure the operation accuracy and stability.

System Specifications

	Technical parameters	Specification
	Machine	
	Size Weight Maximum bearing weight	1380X950X650 (H × W × D) Approximately110kg
	of the top cover	30kg
	Display	
	Type Size Resolution Brightness	Color TFT LCD (touch screen) 19 inches 1366 x 768 pixels Not adjustable
	LED indication	
	Alarm Indication AC power indicator Battery indicator	8 (yellow, red, and when the senior and mid-level alarms occur simultaneously, only flashes red) 1 (green) 2 (green and orange)
	Audio instruction	_ (3
	Speaker	Alarm sounds, tone, volume adjustable, alarm tone meet
		IEC60601_1_8 standards.
	Control	
	Knobs	1 Support clockwise/counter-clockwise rotation and pressing operation

Interface	
Power supply	An AC power connector Three auxiliary output power interface
Equipotential USB	An equipotential ground 1 standard USB interface
Moving means	
Roller	4 castors, diameter 125mm
Brake	
Brake plate	Located two front casters, depressing is the braking action.
Toolbox	
Drawer	Drawer:200 × 392 × 398 (H × W × D) Drawer two:200 × 392 × 398 (H × W × D)
Respiratory System	

are place	depressing is the braking action.
olbox	
awer	Drawer:200 \times 392 \times 398 (H \times W \times D) Drawer two:200 \times 392 \times 398 (H \times W \times D)
spiratory System	
llows capacity sorber Canister Capacity nnection	1500mL 1500mL Suction/ ACGO ports: standard OD 22mm, ID 15mm, tapered connector; Exhalation ports: standard OD22mm, ID 15mm, tapered connector. Manually breathing bladder port: diameter 22cm
tem leaks	In any mode, the system is not greater than 140 ml/min leakage
stem compliance	The loss due to the system's internal compliance gas volume (balloon mode) as follows: Adult mode Type ≤4 mL / cmH2O,pediatric mode ≤3 mL / cmH2O
spiratory system	Inspiratory impedance: less

resistance than 0.6kPa;expiratory resistance: not more than 0.6 kPa

Display: 19" TFT with touch screen

Ventilation Model VCV, SIMV-VCV, PCV, Manual, Standby,SIMV-PCV,PSV,
BACKUP-VCV,BACKUP-PCV

Ontional mode: PRVC(PCV-VG),SIMV-PRVC Tidal Volume: 50-1500ml Optional Min 20mL

Fresh Gas Compensation Pre-use check, leakage testing and compliance compensation Electronic PEEP

Touch screen, button

02, N2O, Air

Range: 0 to 15 L/min Indicator: Flow tube

Indicator accuracy:

O2: 0~15L/min

N2O:0~12L/min Air: 0~15L/min

±10% of setting or ±0.2L/min

± 10% of settingor ±0.1L/min

21% to 100%O2 concentration

Paw-T, Flow-T, V-T LOOP: P-V, V-F,P-F Optional : CO2-T, Pleth, AG

Top light

24hours

Monitoring Parameter

Alternate O2 (safety flow)

Flow accuracy:

Real-time clock	
Range	2015(00:00)~2165 (23:59)
Accuracy	±1 minute
Display Resolution	1minute / month (at 21 ±3 °C under the conditions)
Use the power	Independent power (button battery) power supply.

Main technical parameters

Parameter	Description
Tidal Volume Inspiration	0∼2500 ml
Tidal Volume Expiration	0~2500 m
MV	0~60 L/mii
MVspont	0~60 L/mii
Frequency	0~100 bpr
Ratespont	0∼100 bpr
I:E	9:1~1:99
Ppeak	0~100 cml
Pmean	0~100 cml
PEEP	0~100 cml
Pplat	0~100 cml
Pmin	-20~100 cm
02%	15~100%
Compliance	0~300 mL
Resistance	0∼600 cml
EtCO2 (Optional)	0~13.3 %
FiCO2 (Optional)	0~13.3 %
Anesthetic agent	PHASEIN g

Alarm Parameter

	24hours
g	
	Gauge-Pipeline supply: O2, N2O,Air Optional : Gauge-Cylinder: O2, N2O (Configured with Yoke Option)
	Tidal Volume, MV, Frequency, I:E, Airway Pressure, Compliance, Resistance(Optional: EtCO2、FiCO2, PHASEIN gas module for anesthetic agent)
	Infant, Pediatric and Adult
	two position

±5% of setting valve
less then 0.5s (10%-90% flow step)
Temperature and atmospheric
pressure compensated to standard
conditions of 20 C and 1013 kpa
Electronic
O2 sensor
O2 Flow meter (O2: 0~15LPM)
Optional: O2 Flow meter (O2: 0~
15LPM) (Optional)

O2 senso O2 Flow r Optional 15LPM) (0 Yes(Optional) NI-MH battery build in.>90mins O2, Air

Optional: O2, N2O Cycle Absorber Intergrated, bypass Design, heating system.

Setting Parameter

Electronic mixer response time :

Compensation:

Hypoxic guard : FiO2%

ACGO

Batterv

Driver Gas

Yoke system

Alternate O2 control

Auxiliary O2 supply

Parameter	Description
Tidal Volume	50~1500 mL, Optional Min 20mL
Frequency	1~100 bpm
Tinsp	0.1~10.0 s
I:E	4:1~1:10
Pause	0~60%
PEEP	OFF, 3~30 cmH2O
Psupp	0∼70 cmH2O
Pressure Control	5∼70 cmH2O
Flow Trigger	0.5∼20 L/min
Pressure Trigger	0~20 cmH2O
Tslope	0~2s
Expiratory Trigger	5~80%

Monitoring Parameter

Parameter	Description
Tidal Volume Inspiration	0∼2500 mL
Tidal Volume Expiration	0∼2500 mL
MV	0∼60 L/min
MVspont	0∼60 L/min
Frequency	0∼100 bpm
Ratespont	0∼100 bpm
I:E	9:1~1:99
Ppeak	$0 \sim 100 \text{ cmH2O}$
Pmean	$0\sim$ 100 cmH2O
PEEP	$0\sim$ 100 cmH2O
Pplat	$0\sim$ 100 cmH2O
Pmin	-20~100 cmH2O
O2%	15~100%
Compliance	0~300 mL/cmH2O
Resistance	$0\sim$ 600 cmH2O/(L/s)
EtCO2 (Optional)	0~13 . 3 %
FiCO2 (Optional)	0~13 . 3 %
Anesthetic agent	PHASEIN gas module t anesthetic agent

Parameter		Description
Tidal Volume	Upper limit	30∼2000 mL
	Lower limit	OFF, 20~1500 m
MV	Upper limit	1∼99 L
	Lower limit	0∼98 L
02%	Upper limit	22~100%,OFF
(Optional)	Lower limit	20~99%
Airway Pressure	Unner limit	$10 \sim 99 \text{ cmH} 20$

Lower limit 1∼98 cmH2O

р)	Frequency	Upper limit Lower limit	1~100 bpm 0~99 bpm
ρ,	EtCO2	Upper limit	0.1~13.3 % :
rd	(Optional)	Lower limit	0~13,2 %;
	FiCO2 (Optional)	Upper limit	0.1~13.3 %;
	PRESSURE HIGH		Airway pressure > (PEEP+15) cmH2O,
-			continuously high pressu > (15+1) s
	APENA		$10\sim60$ s, Increase: 5 s
	O2 SUPPLY DOWN		< 0.28 MPa
	MAINS FAILURE		Automatic battery back
	BATTERY LOW		< 10 min
	BATTERY DISCHAR	RGED	< 5 min
	MUTE		≤120 s
	PRESSURE LOW		< -10cmH2O

Environmental Specifications

Work Environment	Temperature	10~40°C
	Humidity	5~95%,non-condensing
	Environmental	
	pressures	50~106 kPa
Storage environment	Temperature	-20~55°C

Environmental 50~106 kPa pressures

<18 Vol.%

Power Specifications

Parameter	Specification
External AC power	•
Input Voltage	100-240V
Input Frequency	50/60Hz
Input Power	<150 VA
Internal Battery	A battery pack
Number of batteries	7.
Battery Type	NiMH batteries
Rated battery voltage	12VDC
Battery capacity	4200mAh
Shutdown Delay	Less than 10min
Shortest supply time	90min
Charging time	4h

Vaporizer:

FiO2 <18%

Technical Specification	
Number of positions:	2
Flow range:	0.2-15L/min
Connector type:	Selectatec compatible, Plug Cagemount
Dosing methods:	Pour-fil, Easy-fil, Quik-fil (Sevoflurane)

Working environment

Working temperature:	+15°C ~ +35°C
Relative humidity:	≤93%
Atmospheric pressure range:	70kPa ~ 106kPa
Storage temperature: -	40°C ~ +65°C

Main technical parameters

Allestifetic Concentration.	
0 ~ 5.0%:	Isoflurane, Enflurane, Halothane
0 ~ 8.0%:	Sevoflurane



Beijing Siriusmed Medical Device Co., Ltd.

2nd Floor E6 Building, Beijing Yizhuang Biomedical Park, No.88 Kechuang 6 street, Yizhuang, Beijing, China. Tel: 0086-10-87576012 Fax: 0086-10-87576012 E-mail:sales@siriusmedica.com

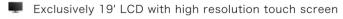
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Care for today, Health for tomorrow



3 station selectatec Vaporizer back-bar

Special modular design for SPO2, ETCO2, Multi-gas, EEG

Electronic gas mixer and virtual flowmeters

Tidal volume minimum: VCV 10mL, PCV 5mL











- 19" TFT touch screen with Double screen display technology, independently developed software platform, highly user-friendly interface, independently developed software platform, highly user-friendly interface
- Intelligent fully electronic flow meter, sophisticated electronic gas mixing system
- Functional modular design structure:

Three compartmental expansion slot, Instant swap/replacement of application modules, EtCO2, SpO2, Multi-Gas Monitoring Module, BIS with customizable anesthesia information system.



• 7" electronic display of pressure gauges for real-time monitoring of system gas supply.



 BYPASS intelligent monitoring function (patented technology).



• Three vaporizer parking place, selected compatible with interlocking and bypass valve, abality to equip 3 various anesthesia agents (patented technology).







- Auxiliary oxygen flow meter.
- Built in Positive pressure suction device, (optional) for negative pressure suction, Pre-regulated suction pressure prior to usage.
- Emergency 02 Flowmeter, Provides oxygen supply system, backup support.
- Driving gas switch fuction (oxygen air), Provides for economical hospital soutions, saving cost.
- Gas source expansion ports, support for Central gas supply & Yoke sytem (optional).
- Compact structure, product overall height reduction, four central brake system.
- Imported large antistatic castors, providing high mobilty and flexiblity.



***** Features

- X66 Anesthesia Workstation
- Applicable for infant, child and adult, simplified patient type selection and parameter setting, Tidal volume 20~1500ml
- 19" high resolution TFT touch screen, user friendly design, multiple patient monitoring configuration meet all kinds of clinical requirement
- Configure with startup pre-use test, patient circuit leakage and compliance test
- Electrical control gas mixer, backup fresh gas delivery system for safety Configurable fresh gas flow and O2 concentration
- Driving gas switching system for O2 and Air
- Interlock two vaporizer mounting system
- Backup yoke gas supply with pressure gauge monitoring
- Auxiliary O2 supply system with flowmeter

- Built in vacuum system (Optional) for multiple clinical purpose
- Modularized absorber cycle design, built in heating system, bypass deign with smart detection for a safety soda line replacement during operation
- Configured with VCV, PCV, SIMV, SPONT and PRVC, multiple operation applicable
- Up to 24 hours patient monitoring trend and table for a professionalclinical assistant
- Built-in SpO2, EtCO2 and Fi/Et anesthesia gas monitoring module for an organization operation environment
- Convenience maintenance, simplified calibration and upgrade procedure

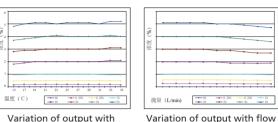




❖ Vaporization

- High precision anesthetic vaporizer, service free, dual position with Selectatec bar. Dosage: 300ml, available for Halothane, Enflurane, Isoflurane, sevoflurane vaporizer with interlock safe systems.
- Compensates for variances in pressure, temperature and flow for accuracy of transmitting concentration ensures patients receive adequate oxygenation, reliable vaporization of inhaled anesthesia drugs.

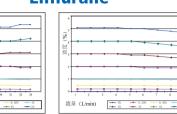
Isoflurane



Variation of output with temperature (51 /min)

Variation of output with

Enflurane



temperature (51 /min)

Variation of output with flow rate(Temperature: 20°C)

***** Ergonomic integrated breathing circuit

rate (Temperature: 20°C)

Technology innovation:

- A closed and semi-closed circuit; natural latex free to avoid allergic reaction. Fully 134°C autoclavable to avoid cross infection, especially for respiratory disease operation.
- Embed design, flow sensor with variable orifice, suitable for different application from child to adult.
- Efficient, integrated heating system, optimized airway design and water trap design to ensure the air flue without effected by condensation. Also ensure the accuracy of operation for long term.
- Bypass design, replacement of absorber canister fast and convenient, alarm function remind the doctor always and let the operation more safe and reliable.

Humanized design:

- Circuit heating system controls the temperature at 35°C (±2°C) to avoid condensation effect on the flow sensor lifetime and accuracy; also make the patient feel more comfortable.
- Bypass design enable fast and convenient replacement of CO2 canister without stopping operation. Special designed chamber assembly monitoring to avoid disoperation.
- Easy for installing cleaning disinfecting and maintaining without any tools and training.

❖ Ventilation

- The large color LCD screen displays all ventilator's setting data, measurement information, loops and numeric / graphic trends. Standard Active Exhalation Valve, Electronic flowmeter,
- Sufficient modes of Ventilation, Volume Control, Pressure Control, SIMV (Volume and Pressure), CPAP / PSV and manual. With Tidal volume 20ml which could apply adults and infant.
- Optional Auxiliary oxygen flowmeter and famous brand SPO2 , EtCO2 provide more monitoring reference for droctor.







VCV