

Top Shelf And Light

Loading weight 30Kg, Height: 1410mm, Width: 550mm, Depth: 350mm, LED light illuminates all work surfaces.

Friendly Interface

10.4" TFT touch screen High resolution, with a rotary knob. Resolution 680 x 480.

Dual DIN Rail Sys

Adapt patient monitor support arm, BIS SYS or syringe pump frame on both sides (Optional).



Anesthesia Gas Scavenging System

Independent active AGSS exhaust, avoids anesthesia air pollution in the OR & concerns over clinicians health.



Antistatic Casters

Four casters with two brakes, diameter is 125mm.



Monitoring Interface

Intuitive displays for overall parameters of setting, measurement and graphic trends data.



Anesthesia Ventilator

Tidal volume: 20~1500 mL(Optional 10-1600mL). Easy to upgrade advance ventilation modes.



Dual Vaporizer

Select bar support 2 vaporizers position for Isoflurane, Sevoflurane, Halothane VP10 vaporizer compensates for variances in pressure, temperature and flow and needs no annual recalibration.



Yoke

PISS standard, optional max 3 cylinders.



Drawer

Size: 200 x 392 x 398mm(H x W x D) x2, Optional max 3.

Suction

Patient suction system with a regulator and reusable canister.



❖ Ergonomic Integrated Breathing Circuit

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.
- ◆ Embedded design, flow sensor with variable orifice, suitable for different applications from infant to adult. Tidal volume 20 ~ 1500 mL(Optional 10-1600mL).
- ◆ Efficient, integrated heating system, optimized airway and water trap design to ensure the air flow without effected by condensation. Also ensures the accuracy of operation for long term.
- ◆ Bypass design, fast and convenient replacement of absorber canister , priorty alarm function reminds the user always for safe and reliable operation.

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.

❖ CO₂ Absorber System

- ◆ 134°C autoclavable CO₂ absorber integrated bypass system, totally latex free.
- ◆ Variable orifice flow sensor design.
- ◆ 35 °C (±2 °C) integrated heating system.
- ◆ Bypass design with canister remove alarm.
- ◆ Easy installation, no special tools / training for cleaning, maintaining & disinfection is needed.



❖ 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, etc.
- ◆ 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 with famous brand SPO₂, EtCO₂ provide more monitoring parameters for droctor's reference.

❖ Features

- Suitable for pediatric and adults
- Tidal volume setting 20~1500ml (Optional 10~1600ml)
- Friendly user interface
- 10.4" TFT color screen with touch screen
- With knob and hard key input
- Sufficient modes of Ventilation: VCV, PCV, SIMV-V, Manual Gas supply: O₂, N₂O, Air Optional: SIMV-P, CPAP/PSV, PRVC, SIMV-PRVC, BACKUP, O₂, ETCO₂, AGSS, Suction, AA
- 6 Tube-flowmeters more accurate and stable, auxiliary flowmeter Gas system, Hypoxic guard system, ORC, O₂, Flush
- Vaporizer: Selectatec bar support 2 vaporizers
- Optional: ACGO, 2 Yokes (O₂ & N₂O)

Good Integration:

- ◆ Built-in active expiratory PEEP valve
- ◆ Built-in battery
- ◆ Lung mechanics parameters and loop (P-V, V-F)
- ◆ Integrated absorber system, with heated function, bypass design, easy assembly, less leaks, Autoclavable 134 °C



PCV



SIMV



PSV(Optional)

❖ Ergonomics design anesthesia machine

- ◆ More convenient operating and display systems for clinical requirements; Suitable for a wide range of anesthesia application: adult and infant. Tidal volume 20 ~ 1500 mL(Optional 10-1600mL).
- ◆ Electronic PEEP, Imported proportional valve, High precision electronic flowmeter,all ensure the excellent performance, durable for long-term use.
- ◆ Highly integrated circuits, centrilized heating technique avoids condensation in the circuit with bypass function, the canister can be replaced during ventilation without stoping anesthesia operation.
- ◆ Sufficient monitoring parameter: Ppeak, Pmean, Pmin, Pplat, PEEP Compliance, Resistance, O₂%, EtCO₂, FICO₂.
- ◆ Clinician's health concerns: Independent AGSS systems avoids anesthesia gas commulation & removes health concerns for clinicians.
- ◆ Complete alarm function to make sure that operating is accurate & stable.

System Specifications

Description	Technical parameters
Machine	
Size	1410 × 950 × 650mm (H × W × D)
Weight	110kg
Top shelf	
Weight limit	30kg
Size	580 x 400mm
Display	
Type	Color TFT (touch screen)
Size	10.4' inches
Resolution	600 × 800 pixels
Work surface light	LED
LED indication	
	Alarm Indication
	AC power
	Battery
Audio instruction	
Speaker	Alarm sounds
Control	
	Button Presskry
Interface	
	RS232, VGA, USB
	Three auxiliary output power interface
Moving means	
Castor	4 antisatic castors, diameter Φ 125mm (2 brake infront)
Toolbox	
Drawer	200 × 392 × 398mm (HxWxD)x2
Respiratory System	
Air bellow	1500mL
Absorption chamber	1500mL
Connection	Suction / ACGO ports: standard OD 22mm, ID 15mm, tapered connector; Exhalation ports: standard OD 22mm, ID 15mm, tapered connector. Manual breathing bag port: diameter Φ 22cm
System leaks	< 40ml/min
System compliance	Type ≤ 4 mL / cmH ₂ O
Resistance	Inspiratory < 0.6 kPa; Expiratory < 0.6 kPa

Vaporizer

Description	Parameter
Technical Specification	
Flowrate range:	0.2-15L/min
Connector type:	Selectatec compatible, plug in, cagemount
Filling type:	Pour-fil, Easy-fil, Quik-fil (Sevoflurane)
Working environment	
Working temperature	+15 C ~ +35 C
Relative humidity	5%~ 95%(non-condensing)
Atmospheric pressure	70kPa ~ 106kPa
Storage temperature	-20 C ~ +55 C
Concentration:	0 ~ 5.0%: Isoflurane, Halothane 0 ~ 8.0%: Sevoflurane

Main Technical Parameters

Description	Parameter
Ventilation Mode:	VCV, SIMV-V, PCV, Manual,standby. Optional: SIMV-P, PRVC, SIMV-PRVC-PSV (Backup)
Wave form	Paw-T, Flow-T, V-T, CO ₂ -T
Loop	P-V, V-F(Optional)
Pressure monitoring	Centrol: O ₂ , N ₂ O, Air Cylinder: O ₂ , N ₂ O
Monitoring parameter	Tidle Volum, MV, Frequency, I : E, Airway Pressue, Pmin, Compliance, Resistance
Application	Adult and Pediatric
Vaporizer	Selectic bar for two position
Gas supply	O ₂ , N ₂ O, Air
6 tubes flowmeter	O ₂ : 0 ~ 10LPM; N ₂ O: 0 ~ 12LPM; Air: 0 ~ 15LPM; O ₂ sensor
O ₂ %	O ₂ sensor
Auxiliary O ₂	Auxiliary O ₂ Flow meter (O ₂ : 0 ~ 15LPM) (Optional) Yes
ACGO	Yes
O ₂ Flush	25-75L/Min
Battery	NI-MH battery build in. >90mins
Yoke	2 (O ₂ , N ₂ O)(Optional)
Gas cylinder	O ₂ , N ₂ O (Optional)
Cycle absorber	Intergrade, bypass design, heating system.

Setting Parameters

Description	Parameter
Tidal Volume	20 ~ 1500 mL(Optional 10-1600mL)
Frequency	1 ~ 100 bpm
Tinsp	0.1 ~ 10.0s
I : E	4:1 ~ 1:10
Pause	0 ~ 60%
PEEP	OFF, 3 ~ 30 cmH ₂ O
Psupp	0 ~ 70 cmH ₂ O
Pressure Control	5 ~ 70 cmH ₂ O
Flow Trigger	0.5 ~ 20 L/min
Pressure Tirgger	0 ~ 20 cmH ₂ O
Ramp	0 ~ 2s

Monitoring Parameters

Description	Parameter
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 ~ 100 cmH ₂ O
Pmean	0 ~ 100 cmH ₂ O
PEEP	0 ~ 100 cmH ₂ O
Pplat	0 ~ 100 cmH ₂ O
O ₂ %	15 ~ 100%
Compliance	0 ~ 300 mL/cmH ₂ O
Resistance	0 ~ 600 cmH ₂ O/(L/s)
EtCO ₂ (Optional)	0 ~ 13.3 %
FICO ₂ (Optional)	0 ~ 13.3 %

Alarm Parameters

Description	Parameter
Tidal Volume	
Upper limit	10 ~ 2000 mL
Lower limit	OFF, 10 ~ 1990 mL
MV	
Upper limit	1 ~ 99 L
Lower limit	0 ~ 98 L
O ₂ % (Optional)	
Upper limit	19 ~ 100%, OFF
Lower limit	18 ~ 99%
Airway Pressure	
Upper limit	10 ~ 99 cmH ₂ O
Lower limit	0 ~ 98 cmH ₂ O

Frequency	
Upper limit	1 ~ 100 bpm
Lower limit	0 ~ 99 bpm
EtCO ₂ (Optional)	
Upper limit	0.1 ~ 13.3 % ;
Lower limit	0 ~ 13.2 %;
FiCO ₂ (Optional)	
Upper limit	0.1 ~ 13.3 % ;
Continue high pressure	Airway pressure beyond (PEEP+15)cm H ₂ O, continuesly(15+1)s
APENA	10 ~ 60s, Increase: 5s
O ₂ supply down	< 0.28 MPa
Mains failure	Automatic switch battery
Battery low	< 10 mins
Battery dischargen	< 5 mins
Mute	≤120 s
Pressure low	< -10cmH ₂ O

Power Specifications

Description	Parameter
External AC power	
Input voltage	100 - 240V
Input frequency	50/60Hz
Input power	<150 VA
Internal Battery	
Number of batteries	A battery pack
Battery type	NiMH batteries
Rated battery voltage	12VDC
Battery capacity	4200mAh
Shutdown delay	Less than 10min (using a new fully charged battery, low battery alert since the first post)
Shortest supply time	90mins
Charging time	4h
Work environment	
Temperature	10 ~ 40 °C
Humidity	5 ~ 95%, non-condensing
Environmental pressures	70 ~ 106 kPa
Storage environment	
Temperature	-20 ~ 55 °C
Humidity	10 ~ 95%, non-condensing
Environmental pressures	50 ~ 106 kPa



Anaesthetic Workstation



X45

Anaesthetic workstation for operation room
10.4" Touch screen Color TFT

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