

System Specifications

Specification	Technical parameters
Machine	
Size	1410 × 950 × 650mm(H × W × D)
Weight	110kg
Top cover	30kg bearing weight
Size	580 x 400mm
Display	
Type	Color TFT (touch screen)
Size	8.4 inches
Resolution	640 × 480 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 port: diameter Φ 22cm
System leaks	< 40ml/min
System compliance	≤ 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
Tilling 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
Disply	8" TFT, Touch screen,Top light
Ventilation Mode	VCV, PCV, SIMV-V, Manual, Standby , (Optional: SIMV-P, SPONT/PSV)
Tidle Volum	20 ~ 1500 mL(Optional 10-1600mL)
	Electronic PEEP, Lung mechanics parameters
Wave form	Paw-T, Flow-T, V-T, CO ₂ -T
Loop	P-V, V-F
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 Infant
Vaporizer	Selectic bar for two position
Gas supply	O ₂ , N ₂ O, Air
6 tubes flowmeter	O ₂ : 0 ~ 10 LPM; N ₂ O: 0 ~ 12 LPM; Air: 0 ~ 15 LPM;
	O ₂ sensor
O ₂ %	Auxiliary O ₂ Flow meter (O ₂ : 0 ~ 15LPM) (Optional)
ACGO	Yes
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 ~ 10s
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
P _{peak}	0 ~ 100 cmH ₂ O
P _{mean}	0 ~ 100 cmH ₂ O
PEEP	0 ~ 100 cmH ₂ O
P _{plat}	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	30 ~ 2000 mL
Lower limit	OFF, 20 ~ 1500 mL
MV	
Upper limit	1 ~ 99 L
Lower limit	0 ~ 98 L
O₂% (Optional)	
Upper limit	22 ~ 100%, OFF
Lower limit	20 ~ 99%
Airway Pressure	
Upper limit	10 ~ 99 cmH ₂ O
Lower limit	1 ~ 98 cmH ₂ O
Frequency	
Upper limit	1 ~ 100 bpm
Lower limit	0 ~ 99 bpm
EtCO₂ (Optional)	
Upper limit	0.1 ~ 13.3 % ;
Lower limit	0 ~ 13.2 %;
FiCO₂ (Optional)	
Upper limit	0.1 ~ 13.3 % ;
Continue pressure high	
	Airway pressure beyond (PEEP+15)cm H ₂ O, continuesly(15+1)s
APENA	10 ~ 60 s, Increase: 1s
O ₂ supply down	< 0.28 MPa
Mains failure	Automatic switch battery
Battery low	< 10 mins
Battery discharge	< 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	5~ 95%, non-condensing
Environmental pressures	50 ~ 106 kPa



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Three Gas Supply With 6 Tube-Flowmeters

O₂, N₂O, Air, fresh supply, with 5 Gas Supply Pressure Gauges easy monitoring of central gas supplies and gas cylinders status.

Dual DIN Rail Sys

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



Monitoring Interface

Overall parameters of setting, measurement intuitive displays.



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.

Top Shelf And Light

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

Friendly Interface

8.4" TFT touch screen, with rotary knob. Resolution 680 x 480.



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 (REAR)

PISS standard, optional max 3 cylinders.



Drawer

Size: 200 x 392 x 398mm (H x W x D) x 2, Optional max 3.

Suction

Patient suction system with a regulator and reusable canister (Optional).



❖ 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 ~ 1500 mL(Optional 10-1600mL).
- ◆ 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: Ppeak, Pmean, Pmin, Pplat, 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.



❖ 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.
- ◆ No tools installation, easy maintaince.

❖ Ventilation

The large color LCD screen displays all ventilator's setting data, measurement information, loops. Standard Active Exhalation Valve, Electronic flowmeter, Sufficient modes of Ventilation, Volume Control, Pressure Control, SIMV (Volume), and manual. Optional auxiliary oxygen flowmeter and with famous brand EtCO₂, provide more monitoring parameters for droctor's reference.

❖ Features

- Suitable for pediatric and adults
- Tidal volume setting 20 ~ 1500 mL(Optional 10-1600mL)
- Friendly user interface
- 8.4" 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, BACKUP, O₂, ETCO₂, AGSS

- 6 Tube-flowmeters more accurate and stable, auxiliary flowmeter Gas system, Hypoxic guard system, O₂ Flush, Suction
- **Vaporizer:** Selectatec bar support 2 vaporizers
- 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



PCV



SIMV



PSV(Optional)