



## ❖ Ergonomics design anesthesia machine

- More convenient operating and display systems for clinical operations; Suitable for a wide range of anesthesia: adult and pediatric. (Tidal volume 50-1500mL)
- Electronic PEEP, Imported proportional valve, traditional 6 tubes flowmeter, all ensure the excellent performance, durable, long-term use.
- Sufficient monitoring parameter: Ppeak, Pmean, Pmin, Pplat, PEEP Compliance, Resistance, O<sub>2</sub>%, EtCO<sub>2</sub>, FICO<sub>2</sub>.
- 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
<b>Machine</b>	
Size	1410 x 950 x 650 (H x W x D)
Weight	110kg
Top cover size	30kg bearing weight 580 x 400mm
<b>Display</b>	
Type	Color TFT (touch screen)
Size	8" inches
Resolution	640 x 480 pixels
Work surface light	LED
<b>LED indication</b>	
Alarm Indication	Alarm Indication
AC power	AC power
Battery	Battery
<b>Audio instruction</b>	
Speaker	Alarm sounds
<b>Control</b>	
Button, Preskey	Button, Preskey
<b>Interface</b>	
RS232, VGA, USB	RS232, VGA, USB
Three auxiliary output power interface	Three auxiliary output power interface
<b>Moving means</b>	
Caster	4 anti-static castors, diameter $\phi$ 125mm (2 brake in front)
<b>Toolbox</b>	
Drawer	200 x 392 x 398 (HxWxD)x2
<b>Respiratory System</b>	
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 $\phi$ 22cm
System leaks	< 40ml/min
System compliance	$\leq$ 4 mL / cmH <sub>2</sub> O
Resistance	Inspiratory < 0.6 kPa; Expiratory < 0.6 kPa

### Vaporizer

Parameter	Description
<b>Technical Specification</b>	
Flowrate range:	0.2-15L/min
Connector type:	Selectatec compatible, plug in, cagemount
Dosing methods:	Pour-fill, Easy-fill, Quik-fill (Sevoflurane)
<b>Working environment</b>	
Working temperature:	+15°C ~ +35°C
Relative humidity:	$\leq$ 93%
Atmospheric pressure:	70kPa ~ 106kPa
Storage temperature:	-40°C ~ +45°C
Concentration:	0-5.0%: Isoflurane, Enflurane, Halothane 0-8.0%: Sevoflurane

### Main technical parameters

Parameter	Description
Display	8" TFT, Touch screen, Top light
Ventilation Model	VCV, PCV, Manual, Standby
Tidal Volume	50-1500ml Electronic PEEP, Lung mechanics parameters
Wave form	Paw-T, Flow-T, V-T, CO <sub>2</sub> -T
Loop	P-V, V-F
Trend graphs	24 hours
Pressure monitoring	Control: O <sub>2</sub> , N <sub>2</sub> O, Air Cylinder: O <sub>2</sub> , N <sub>2</sub> O
Monitoring parameter	Tidal Volume, MV, Frequency, I:E, Airway Pressure, Pmin, Compliance, Resistance
Application	Adult and Pediatric
Vaporizer	Selectic bar for two position
Gas supply	O <sub>2</sub> , N <sub>2</sub> O, Air
6 tubes flowmeter	O <sub>2</sub> : 0-10LPM; N <sub>2</sub> O: 0-12LPM; Air: 0-15LPM; O <sub>2</sub> sensor
O <sub>2</sub> %	Auxiliary O <sub>2</sub> : Flow meter (O <sub>2</sub> : 0-15LPM) (Optional) Yes (Optional)
Auxiliary O <sub>2</sub>	Yes (Optional)
ACGO	NI-MH battery build in. >90mins
Battery	2 (O <sub>2</sub> , N <sub>2</sub> O)(Optional) O <sub>2</sub> , N <sub>2</sub> O (Optional) Intergrade, bypass design, heating system.
Yoke	
Gas cylinder	
Cycle absorber	

### Setting Parameter

Parameter	Description
Tidal Volum	50-1500 mL
Frequency	1-100 bpm
Tinsp	0.1-10.0s
I:E	4:1-1:10
Pause	0-60%
PEEP	OFF, 3-30 cmH <sub>2</sub> O
Puupp	0-70 cmH <sub>2</sub> O
Pressure Control	5-70 cmH <sub>2</sub> O
Flow Trigger	0.5-20 L/min
Pressure Trigger	0-20 cmH <sub>2</sub> O
Ramp	0-2s

### Monitoring Parameter

Parameter	Description
Tidal Volum Inspiration	0-2500 mL
Tidal Volum Expiration	0-2500 mL
MV	0-60 L/min
MVapont	0-60 L/min
Frequency	0-100 bpm
Ratespont	0-100 bpm
I:E	9:1-1:99
P <sub>max</sub>	0-100 cmH <sub>2</sub> O
P <sub>mean</sub>	0-100 cmH <sub>2</sub> O
PEEP	0-100 cmH <sub>2</sub> O
P <sub>low</sub>	0-100 cmH <sub>2</sub> O
O <sub>2</sub> %	15-100%
Compliance	0-300 mL/cmH <sub>2</sub> O
Resistance	0-600 cmH <sub>2</sub> O(LA)
EtCO <sub>2</sub> (Optional)	0-13.3 %
FICO <sub>2</sub> (Optional)	0-13.3 %

### Alarm Parameter

Parameter	Description
Tidal Volum	30-2000 mL
Upper limit	30-2000 mL
Lower limit	OFF, 20-1500 mL
<b>MV</b>	
Upper limit	1-99 L
Lower limit	0-98 L
<b>O<sub>2</sub>% (Optional)</b>	
Upper limit	22-100%, OFF
Lower limit	20-99%
<b>Airway Pressure</b>	
Upper limit	10-99 cmH <sub>2</sub> O
Lower limit	1-98 cmH <sub>2</sub> O

### Frequency

Upper limit	1-100 bpm
Lower limit	0-99 bpm
<b>EtCO<sub>2</sub> (Optional)</b>	
Upper limit	0.1-13.3 %;
Lower limit	0-13.2 %;
<b>FICO<sub>2</sub> (Optional)</b>	
Upper limit	0.1-13.3 %;
Lower limit	Airway pressure beyond (PEEP+15) cm H <sub>2</sub> O, continuously (15s1) s
Pressure high	10-60 s, Increase: 1s
Pressure low	< 0.28 MPa
Mains failure	Automatic switch battery
Battery low	< 10 min
Battery discharge	< 5 min
Mute	$\leq$ 120 s
Pressure low	< -10cmH <sub>2</sub> O
FIO <sub>2</sub> <18%	<18 Vol. %

### Power Specifications

Parameter	Specification
<b>External AC power</b>	
Input voltage	100-240V
Input frequency	50/60Hz
Input power	<150 VA
<b>Internal Battery</b>	
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	90min
Charging time	4h
<b>Work Environment</b>	
Temperature	10-40 °C
Humidity	5-95%, non-condensing
Environmental pressures	70-106 kPa
<b>Storage Environment</b>	
Temperature	-20-55 °C
Humidity	10-95%, non-condensing
Environmental pressures	50-106 kPa

# Anesthesia Workstation X40C

Become the world's leading supplier of medical equipment and solutions



- ❖ Accurate Proportional flow sensor probe
- ❖ Interactive 8.4-inch LCD Color touch screen system

- ❖ YOKE Reservoir system
- ❖ ACGO Auxiliary common gas outlet



# Anesthesia workstation X40C

Focus on every patient's needs, Let life be more reliable

## Top shelf and light

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



## Monitoring interface

Overall parameters of setting, measurement and graphic trends data intuitive displays.

## Three gas supply with 6 tubes flowmeter

O<sub>2</sub>, N<sub>2</sub>O, Air, fresh supply, with 5 Gas Supply Pressure Gauges easy monitoring of central gas supplies and gas cylinders status.



## Cycle absorber assembly

Integrated absorber system, Autoclavable 134 C, Easy assembling & mounting.



## Anesthesia Gas Scavenging System

Independent active AGSS exhaust, avoid anesthesia air pollution in the OR, concerns clinicians healthy (Optional)



## Antistatic casters

Diameter 125mm, two brakes of four casters.



## Friendly interface

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



## Anesthesia ventilator

Tidal volume: 50-1500mL. Easy to upgrade advance ventilation modes

## Dual Vaporizer

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



## Yoke (REAR)

P155 standard, optional max 3 cylinders (Optional)



## Drawer

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

## Suction

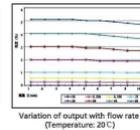
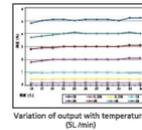
Patient suction system with a regulator and reusable canister (Optional)



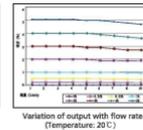
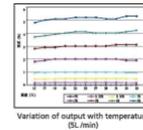
## Vaporization:

- 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



## Enflurane



## Ergonomic integrated breathing circuit

### Technology innovation:

- A closed and semi-closed circuit, nature latex free, avoids allergic reaction. Fully 134 C autoclavable to avoid cross infection, especially for certain respiratory disease operation.
- Embed design, flow sensor with variable orifice, suitable for different application from child to adult.
- Optimized airway and water trap design to ensure the air flow is not affected by condensation. Also ensure the accuracy of operation for long term.

### Humanized design:

- 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 SPO<sub>2</sub>, EtCO<sub>2</sub>, provide more monitoring reference for doctor.



PCV



SIMV



PSV(Optional)

## Features

Suitable for pediatric and adults  
Tidal volume setting 50-1500ml.  
Friendly user interface  
8" LCD color screen with touch screen  
Knob and hard key input

Sufficient modes of Ventilation: VCV, PCV, SIMV-V, Manual  
Gas supply: O<sub>2</sub>, N<sub>2</sub>O, Air  
Optional: SIMV-V, SIMV-P, CPAP/PSV, BACKUP, O<sub>2</sub>, SpO<sub>2</sub>, EtCO<sub>2</sub>, AGSS, Suction  
6 Tubes flowmeter more accurate and stable, auxiliary

flowmeter Gas system, Hypoxic guard system, O<sub>2</sub> Flush  
Vaporizer: Selectatec bar support 2 vaporizers  
ACGO, 2 Yokes (O<sub>2</sub> & N<sub>2</sub>O)

## Good integration:

- Built-in active expiratory PEEP valve system, O<sub>2</sub> Flush
- Built-in battery
- Lung mechanics parameters and loop (P-V, V-F)
- Integrated absorber system, easy assembly, less leaks, Autoclavable