

## **X30C** Anesthesia Workstation



# Anesthesia Workstation

## Features

- Integrated structure & Attractive Design
- Accurate Manual Ventilation
- Gas Supply: O<sub>2</sub>, N<sub>2</sub>O, 4 tube flowmeters (Optional: 6 tube flowmeters)
- Pneumatic system: Hypoxic guard system, O<sub>2</sub> flush
- Integrated Absorber system, Autoclavable, Easy assembling & mounting
- Vaporizer mount: Selectatec bar support 2 vaporizers  
Vaporizer types: Enflurane, Isoflurane, Sevoflurane, Halothane
- Optional: Yoke system (N<sub>2</sub>O, O<sub>2</sub>), AGSS, Suction, Auxiliary oxygen flowmeter and ACGO

## Anesthesia Ventilator (Optional)

- Suitable for infant Pediatric and adults
- Tidal Volume setting 50 ~1500mL
- User friendly interface, 5.7" TFT LCD screen
- Ventilation modes: VCV, Manual, Standby (Optional: PCV)
- Built-in active expiratory PEEP valve, built-in battery
- O<sub>2</sub> monitoring (Optional)

## Measurement

- Pressure values: P<sub>peak</sub>, P<sub>mean</sub>, P<sub>min</sub>, P<sub>plat</sub>, PEEP
- Volume/Flow values: V<sub>ti</sub>, V<sub>te</sub>, MV, MV<sub>spn</sub>
- FiO<sub>2</sub>, f, f<sub>spn</sub>, R<sub>st</sub>, C<sub>dyn</sub>
- Waveforms: Paw-t, Flow-t

## Alarms

MV, Paw, Continuous Paw high, V<sub>te</sub>, Rate, FiO<sub>2</sub>, Mains failure, Battery low, Battery discharged, O<sub>2</sub> supply failure, Apnea



## Power Specifications

Parameter	Specification
<b>External</b>	
Input Voltage	100 - 240V
Input Frequency	50/60Hz
Input Power	<900 VA (with three AC outlets)
<b>Internal Battery</b>	
Battery Type	NiMH batteries
Battery voltage	12VDC
Battery capacity	4200mAh
Min. supply time	90min
Charging time	4h

## System Specifications

Parameter	Specification
<b>Machine</b>	
Size	1410 x 950 x 650 (H x W x D)
Weight	Approximately 110kg
Max. load on top cover	30kg
<b>Display</b>	
Type	Color TFT LCD (touch screen)
Size	5.7 inches
Resolution	640x480 pixels
Brightness	Not adjustable
<b>LED Indication</b>	
Alarm Indication	8 (yellow, red, and when the senior and mid-level alarms occur simultaneously, only flashes red)
AC Power Indicator	1 (green)
Battery Indicator	2 (green and orange)
<b>Audio Instruction</b>	
Speaker	Alarm sounds, tone: supports multi-level volume, alarm tone meet IEC60601_1_8 standards.
<b>Control</b>	
Knobs	1 Support clockwise / counter-clockwise rotation and pressing operation
<b>Button</b>	
<b>Interface</b>	
Power supply	An AC power connector Three auxiliary output power interface
Equipotential	An equipotential ground
USB	1 standard USB interface
Drawer	Drawer: 200 x 392 x 398 (H x W x D) Drawer two: 200 x 392 x 398(H x W x D)

## Respiratory System

Absorber Canister Capacity	About 1500mL
Connection	Inhalation / Exhalation ports: standard OD 22mm, ID 15mm, tapered connector; Manual breathing bladder port: standard OD 22mm
System leakage	In any mode, the system leak is less than 100ml/min
System compliance	The loss due to the system's internal compliance gas volume (manual mode) as follows:
Type	≤ 4 mL / cm H <sub>2</sub> O
Respiratory system resistance	Inspiratory: less than 0.6 kPa; expiratory: less than 0.6 kPa

## Real-time clock

Range	2000 (00:00) ~ 2100 (23:59)
Accuracy	±1 minute
Display Resolution	1 minute / month (at 21 ± 3 °C under the conditions)

## Mode

VCV, PCV(option) Standby Manual

Flowmeter	four-tube flowmeter, oxygen, nitrous oxide Adjustment range oxygen: 0.1 ~ 10 L / min (20 °C) nitrous oxide: 0.1 ~ 12 L / min (20 °C) Proportion of oxygen and nitrous oxide adjusted to ensure that the oxygen concentration more than 21%.
Auxiliary oxygen flowmeter (optional)	0.1~15 L / min
Safety Pressure	System pressure does not exceed 12.5 kPa.

## Parameters Setting

Parameter	Specification
Tidal volume	Range: 20/50 - 1500ml; Increment: 20/50 ~ 100 mL: 5mL; 100 ~ 1500 mL: 10mL;
Respiratory rate	Range: 1 ~ 100 bpm; increment: 1 bpm.
Inspiratory time	Range: 0.1 ~ 10.0 s; increments: 0.1 s.
Respiratory ratio	Range: 4:1 to 1:10; increments: 0.5.
Percentage of inspiratory pause	Range: 0 to 50%; Increment: 5%
PEEP	Range: OFF, 3 ~ 30 cmH <sub>2</sub> O; Increment: 1 cmH <sub>2</sub> O.
Pressure Support	Range: 0 ~ 70 cmH <sub>2</sub> O; Increment: 1 cmH <sub>2</sub> O.
Pressure Control	Range: 5 ~ 70 cmH <sub>2</sub> O; Increment: 1 cmH <sub>2</sub> O.
Flow trigger	Range: 0.5 ~ 20L/min; increments: 0.1L/min.
Pressure Trigger	Range: 0 ~ 20 cmH <sub>2</sub> O; increments: 0.1 cmH <sub>2</sub> O.

## Monitoring

Parameter	Description
Inspiratory tidal volume	Range: 0 ~ 2500 mL
Expiratory tidal volume	Range: 0 ~ 2500 mL
Minute volume	Range: 0 ~ 60 L / min
Spont minute volume	Range: 0 ~ 60 L / min
Respiratory rate	Range: 0 ~ 100 bpm
Spontaneous breathing frequency	Range: 0 ~ 100 bpm
Respiratory ratio	Range: 30:1 to 1:150
Peak airway pressure	Range: 0 ~ 100 cmH <sub>2</sub> O
Mean airway pressure	Range: 0 ~ 100 cmH <sub>2</sub> O
PEEP	Range: 0 ~ 100 cmH <sub>2</sub> O
Inspiratory plateau pressure	Range: 0 ~ 100 cmH <sub>2</sub> O
FiO <sub>2</sub> (optional)	Range: 15 to 100%
Compliance	Range: 0 ~ 300 mL/cmH <sub>2</sub> O
Airway resistance	Range: 0 ~ 600 cmH <sub>2</sub> O / (L / S)

## Alarm Specifications

Tidal volume	High 30 ~ 2000 mL, OFF Low 20 ~ 1500 mL
Minute ventilation	High 1 ~ 99 L Low 0 ~ 98 L
Respiratory rate	High 1 ~ 100bpm Low 0 ~ 99 bpm
FiO <sub>2</sub> (optional)	High 2.2 ~ 100%, OFF Low 20 ~ 99%
Airway pressure	High 10 ~ 99 cmH <sub>2</sub> O Low 1 ~ 9.8 cmH <sub>2</sub> O
Continuous Positive Airway Pressure	
Negative pressure alarm	Airway pressure is less than (-10) cmH <sub>2</sub> O.
O <sub>2</sub> supply failure alarm	Oxygen pressure is less than 0.28 MPa;
Alarm Mute	≤ 120 s
Inhaled oxygen concentration <18%	FiO <sub>2</sub> <18% Vol;



# X300 Anesthetic Workstation

**SIRIUSMED**

Care for today, Health for tomorrow



- ◆ ICU Ventilator
- ◆ Emergency Ventilator
- ◆ Anesthesia Ventilator
- ◆ Anesthesia Machine
- ◆ Air Compressor

