

TECHNICAL SPECIFICATION

Ventilation mode

IPPV, A/C (V-A/C, P-A/C), SIMV (V-SIMV, P-SIMV) ,
PCV (PCV-PC, PCV-VG optional), PSV optional, MANUAL

Alarm and protection

pressure limit	High (low) tidal volume alarm
suffocation alarm	Alarm sound paused (mute)
Hypoxia alarm	Airway high (low) pressure alarm
Absorber missed alarm	High (low) respiratory rate alarm
Fan failure alarm	High (low) oxygen concentration alarm
Continuous pressure alarm	External power supply interruption alarm
High (low) ventilation alarm	Maximum safety pressure ≤12.5 kPa
Internal backup power supply voltage undervoltage alarm	
Ventilator outage (no tidal volume output) alarm	
The O ₂ and N ₂ O flow meters have linkage devices to ensure that the O ₂ concentration is ≥25%. When O ₂ is turned off, N ₂ O is turned off automatically at the same time	

Working condition

Supply voltage	100-240 V~
Power	frequency 50/60 Hz
Input power	8A
Gas source	O ₂ , N ₂ O, AIR (medical grade)
Air source pressure	280 kPa ~ 600 kPa
Ambient temperature range	+ 5 ℃ ~ +40 ℃
Relative humidity range	≤ 80%
Atmospheric pressure range	860 hPa ~ 1060 hPa

Monitoring parameter

Frequence (Freq)	0 /min ~ 120 /min
Tidal volume (Vt)	0 mL ~ 3000 mL
MV	0 L/min ~ 100 L/min
Oxygen concentration	15 Vol. % ~ 100 Vol. %

Ventilator parameter range

Flowmeter	O ₂ , N ₂ O, AIR (0 ~ 10 L/min)
Rapid oxygen supply	25 L/min ~ 75 L/min
Tidal volume(Vt)	20 mL ~ 1500 mL
	Adult: 300 mL ~ 1500 mL
	Children: 20 mL ~ 300 mL
I:E	4:1 ~ 1:8
PEEP	OFF, 3 cmH ₂ O ~ 30 cmH ₂ O
Pressure triggering sensitivity (PTr)	-20 cmH ₂ O ~ -1 cmH ₂ O
Flow trigger sensitivity (FTr)	OFF, 0.5 L/min ~ 30 L/min
Pressure control (PC)	5 cmH ₂ O ~ 70 cmH ₂ O
SIGH	OFF, 1/100 ~ 5/100
Suffocation time	OFF, 5 s ~ 60 s
Respiratory rate	1/min ~ 100/min SIMV: 1/min ~ 40/min
	Adult: 4/min ~ 40/min
	Children: 10/min ~ 100/min
Inspiratory time	SIMV: 0.2 s ~ 10.0 s Adult: 0.3s ~ 10.0 s
	Children: 0.2 s ~ 4.8 s
Support pressure	5cmH ₂ O ~ 70cmH ₂ O
Rapid oxygen supply flow	25L/min ~ 75L/min
Fresh gas outlet pressure	30 kPa ~ 45 kPa

Oscillogram

P-T (pressure-time)
F-T (flow-time)
V-T (volume-time)
ETCO ₂ -T (ETCO ₂ -time) optional
P-V loop (pressure-volume loop)
P-F loop (pressure-flow loop)
F-V loop (flow-volume loop)

Wooden case packing size

Wooden case packing size : L 925 * W 1060 * H 1620 mm
G.W. : 125 KG



Other models for your reference

The picture is for reference only. For more information, please contact Suma Medical sales representatives.



S12/S12(PRO)
S12A/S12A(PRO)

Anesthesia System
ADULT · PEDIATRIC

Application

Anesthesia systems are used in medical departments to perform general anesthesia on patients, perform controlled breathing or assisted breathing, and monitor and display the patient's ventilation parameters. Suitable for adults and children.



High precision flowmeter
Instantly know the fresh gas flow to your patient.



Electronic flowmeter



Pressure gauge
Real time pressure.



O₂ and air supply
Provide fresh oxygen or air to the patient for independent use.

S12 Series Anesthesia System

Performance characteristics

- Adopt electronic control and pneumatic control methods.
- Has a variety of alarm, prompt and protection functions.
- It has a power outage support function. When the mains power is cut off, it will automatically switch to the internal backup power supply.
- S12 and S12A use 12-inch high-definition color LCD to display ventilation parameters, alarm information, waveforms and ring diagrams.
- Controlled by touch and button.
- Display background switching function (day/night.)
- Suitable for both adults and children.
- With capacity control, pressure limit and other working methods.
- S12 metal circuits with heating function and bypass function.
- Besides , S12 PRO equips with electronic meter flow .
- Adopt temperature, flow and pressure compensation, Anesthetic evaporator with automatic altitude compensation function and zero-position self-locking.
- The four-tube/five-tube mechanical flow meter has an oxygen-laughter.
- Linkage device to ensure that the O₂ concentration is ≥25%.
- With O₂ driving pressure insufficient alarm and N₂O cut-off protection.
- Optional exhaust gas transmission and collection system.
- Optional anesthetic gas monitoring module.
- Optional carbon dioxide monitoring module.



12" TFT LCD screen
Displays the Ventilation parameters, Alarm information and Oscillogram.



Vaporizer

Accurately delivers a calibrated flow, Halothane, Enflurane, Isoflurane, Sevoflurane for choice. Suitable for low flow anesthesia, save cost.



Optional part 1

Vital sign monitor and anesthetic gas monitor.

Optional part 2

ETCO₂ module and Anesthesia Gas Analyzer (Domestic or Masimo Brand for option)

Scavenging System (AGSS)



Metal Breathing Circuit System

Sterilizable at 134° high temperature, Heating & By-pass function.



Bellow, APL valve

Integrated bellow 0mL-1500mL. Suitable for all range patients. Automatic decompression to ensure safety.



Air Compressor(Optional)

Continuously supply 0.4Mpa high pressure medical grade air



Oxygen Concentrator (Optional)

Continuously supply 0.4Mpa high pressure medical O₂

