AX-700 Anesthesia Machine



Technical Specification				
Dimensions of the Complete Machine				
Size	810mm*1400mm*680mm			
Weight	125kg (standard configuration) (without anaesthesia evaporator and ga cylinder)			
Top Plate				
Maximum supporting capacity	Maximum load-bearing of top plate is 20kg			
Operational dimensions	508mm*313mm			
Workbench				
Maximum supporting capacity	Maximum supporting capacity of workbench is 20kg			
Operational dimensions	472mm*248mm			
Handrail				
Length dimension	750mm			
Drawers				
Drawers	Upper: 462mm*287mm*141mm Lower: 437mm*287mm*245mm			
Gas-bag Sway Brace				
Size	Length: 400mm Height: 240mm			
Caster Wheels				
Caster wheel	4 wheels 5 inch, with two brake or central baking available			
Display Screen				
Туре	TFT LCD, allowing touch control			
Size	12.1 inch			
Resolution	800×600 pixels			
Features				
Anesthesia process	Open, semi closed, closed circuit.			
Patients	Designed for adult, pediatric and neonate			



	All intenference for anti-manuscript included DC 222 DL 45 intenference LICD				
Interface	All interfaces for setting measurement included, RS 232, RJ-45 interface, USB				
Mode	port Standby made evailable				
	Standby mode available				
Compliance	Compliance Correction				
Configuation	Possibility of configuration observation				
Monitoring	Include monitoring function according EN-740				
Ventilator Specification					
Ventilation Modes					
Volume-Controlled Ventila	tion(VCV/VC) with tidal volume compensation				
Pressure Control Ventilation	n (PCV/VPC)				
Synchronized Intermitt pressure),(SIMV-VC,SIMV	, , , , , , , , , , , , , , , , , , , ,				
Pressure Regulated Volume	e Control (PRVC)				
Pressure Support Ventilation(PSV)					
Manual and automatic vent	ilation				
Ventilation principle	Chronometric, volumetric and barometric				
Ventilation	Electronically controlled electrically or pneumatically driven				
Ventilator parameter rang	ges				
Monitoring parameter	Tidal volume, Inspiratory, expiratory flow, minute volume, frequency, pressure(Pmean, Pplat, Ppeak), Oxygen, CO2, N2O and halogenated expiratory concentration, Pressure, oxygen, CO2, N2O and Halogen numerical values, pressure, volume and flow curve, compliance and patient resistance				
Tidal volume range	15~1500 ml				
Incremental settings	20~100ml (increments of 5 ml)				
moremental settings					
	100~300 ml(increments of 10 ml)				
	300 ~1500 ml (increments of 25 ml)				
Pressure (inspired) range	5~70 cmH2O increments of 1 cmH2O				
	10~100 cmH2O				
Pressure (limit) range	increments of 1 cmH2O				
	3 to 60 cmH2O				
Pressure (support) range	increments of 1cmH2O				
Rate range	4~100 bpm				
	increments of 1 bpm (VCV, PCV)				
	4~60 bpm				
	increments of 1 bpm (SIMV, PSV)				
Inspiratory/Expiratory	4:1~1:10 adjustable				
ratio (I:E) range	increments of 0.5 (VCV, PCV)				
Trigger	0.5 to 15 1 / min				



Frequency	4 to 100 C / min minimum			
Positive End Expirator y F	Pressure (PEEP)			
Туре	Integrated, electronically controlled			
Range	OFF, 4 ~30 cmH2O			
Kange	increments of 1 cmH2O			
Ventilator Performance				
Pressure range at inlet	0.28~0.6 MPa			
Peak gas flow	100 L/min plus fresh gas			
Flow valve range	1 to 100 L/min			
Flow compensation rage	200 mL/min to 15 L/min			
Ventilator Monitoring				
MV(Per-minute ventilation amount)	0~100 L/Min			
TV(Inspiratory and expiratory tidal volume)	0~2500mL			
FiO2(Oxygen concentration)	18~100%			
Ppeak(Gas channel pressure Paw)	-20~120 cmH ₂ O			
Pmean(Mean pressure)	-20~120 cmH ₂ O			
Pplat(Mean pressure)	0~120 cmH ₂ O			
I:E(Inspiratory- expiratory ratio)	4:1~1:12			
Freq(Respiratory rate)	0~120 bpm			
Compl(Compliance)	0~250mL/cmH ₂ O			
Raw	0~500 cmH ₂ O/(s/L)			
Performance of Ventilator				
Driving pressure	280~600 kPa			
Inspiratory flow	Maximum inspiratory flow shall not be smaller than 120L/min when gas supply pressure is 280KPa.			
Range of flow valve	3~100 L/min			
Pressure limitation controlling means for ventilator	Controlled by the electronic relief valve fitted inside the ventilator; Controlled by the mechanical relief valve fitted inside the ventilator.			
Ventilator accuracy				
TV	<75 ml: ±10ml;			
	\geq 75mL, $<$ 1500 mL: \pm 20mL or \pm 10% of set value, whichever is the greater.			
PCV	Inspiratory pressure: $\pm 3.0 \text{ cmH}_2\text{O}$ or $\pm 8\%$ or set value, whichever the greater. Limiting pressure: $\pm 4.0 \text{cmH}_2\text{O} \pm 10\%$ of set value, whichever is the greater.			



#10% or set value, whichever is the greater. Freq #1 C.P.M. or ±5% of set value; whichever is the greater. EE 2: 1-1: 4: ±10% of set value; Other ranges: undefined. Tip:TT 20%-60%: ±15% of set value; Other ranges: undefined. Atarm Settings Tidal volume(expiratory)		End againstant positive procesure: OFE: undefined: 2, 20cmH O: ±2.0cmH O or		
Freq		End-expiratory positive pressure: OFF: undefined; 3~30cmH ₂ O: ±2.0cmH ₂ O,		
EE 2: 1~1: 4: ±10% of set value; Other ranges: undefined.		±10/6 of set value, whichever is the greater.		
Tip:Ti	Freq	±1 C.P.M. or ±5% of set value, whichever is the greater.		
Tip.Ti	I:E	2: 1~1: 4: ±10% of set value;Other ranges: undefined.		
Tidal volume(expiratory)	Tin:Ti	20%~60%: ±15% of set value;		
Tidal volume(expiratory) High: 5~1600 ml Low: 0 ~1595 ml High: 20~100% Low: 18 ~98% High pressure 2 ~100cmH2O Apnea alarm 30s Alarm access Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~10 L/min Air range 0 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gas connection O2,N2O Standby cylinder connection NIST Standby cylinder connection Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specificator Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specificator System Pressure Gauge Range Range Adjustable Pressu	11p:11	Other ranges: undefined.		
Low : 0 ~1595 ml	Alarm Settings			
Inspired oxygen High: 20-100% Low: 18 ~ 98% High pressure 2 ~ 100cmH2O Apnea alarm 30s Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm ceess Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~ 10 L/min Air range 0 ~ 15 L/min O2 range 0 ~ 15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses Pipeline gas connection NIST Standby cylinder connection PESS Switch easily to the other gas without interrupting the ventilation Breating Circuit Specification System Pressure Gauge Range Range Range Range Adjustable Pressure Limiting (APL)valve Range 1 ~ 75 cm H2O Tactile knob indication at > 30 cm H2O Accuracy: ± 1 0 cm H2O	Tidal volume(evniratory)	High: 5~1600 ml		
Inspired oxygen Low : 18 ~ 98% High pressure 2 ~ 100cmH2O Apnea alarm 30s Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~ 10 L/min Air range 0 ~ 15 L/min O2 range 0 ~ 15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses O2,N2O Pipeline gas connection NIST Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL) valve Range 1 ~ 75 cm H2O Tactile knob indication at >30 cm H2O Accuracy ±1 0 cm H2O East passes 1 ~ 10 cm H2O East passes Easy access by shortcut	Tidal volume(expiratory)	Low: 0~1595 ml		
High pressure 2 ~100cmH2O Apnea alarm 30s Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~10 L/min Air range 0 ~15 L/min O2 range 0 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses Pipeline gas connection NIST Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limitity (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy : ±1 0 cm H2O	Inspired avvgan	High: 20~100%		
Apnea alarm Apnea alarm Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~10 L/min Air range 0 ~15 L/min Oz range 0 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses Pipeline gas connection Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limitity (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy ±1 0 cm H2O	mspried oxygen	Low: 18 ~ 98%		
Sound and visual alarm with reminder message for disconnection, overpressure, Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~10 L/min Air range 0 ~15 L/min O2 range 0 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses Pipeline gas connection NIST Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O 4ccuracy ±1 0 cm H2O	High pressure	2~100cmH2O		
Alarm Flow sensor, current Volume, minute volume, FiO2, Frequency, Leakage, machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0 ~10 L/min Air range 0 ~15 L/min O2 range 10 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses Pipeline gas connection NIST Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O 4ccuracy ±1 0 cm H2O	Apnea alarm	30s		
machine fault, lack of gas, apnea, patient clogetc Alarm access Easy access by shortcut Flow meters Type Mechanical or electronic flow meter optional N2O range 0~10 L/min Air range 0~15 L/min O2 range 0~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses O2,N2O Pipeline gas connection NIST Standby cylinder connection PISS Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limititus (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O		Sound and visual alarm with reminder message for disconnection, overpressure,		
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O2 range 0 ~15 L/min Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses O2,N2O Pipeline gas connection NIST Standby cylinder connection PISS Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	N2O range	0 ~10 L/min		
Proportional device Equipped with a safety system to ensure an O2 concentration of at least 23% Gas Supply Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses NIST Standby cylinder connection PISS Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy ±1 0 cm H2O	Air range	0 ~15 L/min		
Pipeline gasses O2,N2O,AIR Standby gas-cylinder gasses O2,N2O Pipeline gas connection NIST Standby cylinder connection PISS Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	O2 range	0 ~15 L/min		
Pipeline gasses Standby gas-cylinder gasses Pipeline gas connection Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy \$\frac{1}{2}.5\% full scale} Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at Accuracy: \$\frac{1}{2}.0 cm H2O Temporary (APC) Tactile knob indication at Accuracy: \$\frac{1}{2}.0 cm H2O	Proportional device	Equipped with a safety system to ensure an O2 concentration of at least 23%		
Standby gas-cylinder gasses Pipeline gas connection Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Accuracy \$\frac{1}{2}.5\%\ \text{full scale}\$ Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at Accuracy: \$\frac{1}{2}.0 \text{ cm H2O}\$	Gas Supply			
gasses Pipeline gas connection NIST Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Pipeline gasses	O2,N2O,AIR		
Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O				
Standby cylinder connection Features Switch easily to the other gas without interrupting the ventilation Breathing Circuit Specification System Pressure Gauge Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Pipeline gas connection	NIST		
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Breathing Circuit Specification System Pressure Gauge Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy : ±1 0 cm H2O	connection	PISS		
Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy : ±1 0 cm H2O	Features	Switch easily to the other gas without interrupting the ventilation		
Range Range Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Breathing Circuit Specific	ation		
Accuracy ±2.5% full scale Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	System Pressure Gauge			
Adjustable Pressure Limiting (APL)valve Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Range	Range		
Range 1~75 cm H2O Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Accuracy			
Tactile knob indication at >30 cm H2O Accuracy: ±1 0 cm H2O	Adjustable Pressure Limit	ting (APL)valve		
Accuracy: ±1 0 cm H2O	Range			
	Accuracy:	±1 0 cm H2O		
ı I	start pressure	essure 1 cm H2O		
Breathing Circuit Parameters		ters		



	≦4mL/100Pa			
Compliance				
	Automatically compensates for compression loss with in the breathing circuit			
Volume of CO2 canister	in mechanical mode			
	about 1500			
Water Trap	7mL, easy to be disassembled			
Feature	Heated at 134 degree, removable, easy to dismantle and sterilize			
Gas Monitoring				
	Carbon Dioxide (CO2) Modules			
Туре	Mainstream ETCO2, Side stream ETCO2			
Method	Infrared absorption			
Module type	Phasin side -stream and mainstream			
Display	Numerics and curve displayed in screen			
Alarm delay	1~10s (step size: 1s)			
Sweep	6.25 mm/s,12.5 mm/s			
Anesthetic Agent (AG) Module				
Maximum sound pressure	79dB			
for low alarm	79db			
Measurement mode	Side stream			
Module type	Phasin ISA AG module			
Accuracy	±10ml/min or ±10%, whichever is greater			
Monitored parameters	CO2, N2O,AA, MAC,Paramagnatic O2 and BIS			
Active AGSS				
High flow, low vacuum				
Applies with ISO 8835-3:199	97			
Flow of suction: 50-80L/min				
Resistance: 0.75KPa ,75L/m	in			
Filter: Stainless steel reseau	with 140-150μm of diameter			
Power and Batter y Backup)			
Battery backup	120 mins			
Battery tye	Build-in Li-ion batter y, 11.1 VDC, 4400 mAh			
Charge time	Approximately 8 hours (in running status or standby mode)			
Power	4 electrical outlets minimum 220V			
Gas Supply				
Pipeline gasses	O2,N2O,AIR			
Standby gas-cylinder				
gasses	O2,N2O			
Pipeline gas connection	NIST			
Standby cylinder	PISS			
connection				
ACGO				
Connector	Taper coaxial fitting of 22mm (outside) and 15 (inside)			
Backpressure generated at	Not greater than 2kPa			
the rear end of anaesthesia				
	1			



		,				
vaporizer and the front-end						
of ACGO during quick						
oxygen charging						
Flush O2						
100% fast oxygen	100% fast oxygen					
Vaporizer	Vaporizer					
Brand		Drager and COMEN available				
Locking		Two vaporizer with interlocking system				
Automatic recongnition		Anethesia machine able to automatic recognize halogenated gases				
Power(No isolation transfe	ormer)					
External AC power supply	,					
Input voltage	100 to 240 V/100 to 120 V					
Input current	8.5 to 3.5 A/8.5 A					
Input frequency	50/60 Hz					
Leakage current	< 500μA	< 500μΑ				
Auxiliary output supply						
Output voltage	100 to 240 V/ 100 to 120 V					
Output frequency	50/60 Hz					
Power(With isolation trans	sformer)					
External AC power supply						
Input voltage	100 to 120 V/220 to 240 V					
Input current	8.5/ 3.5 A					
Input frequency	50/60 Hz	50/60 Hz				
Leakage current	< 500μA					
Auxiliary output supply						
Output voltage	100 to 120 V/ 220 to 240	100 to 120 V/ 220 to 240 V				
Output frequency	50/60 Hz					
Principal Machine						
WorkTemperature (ºC)	10~40					
Relative humidity	15%~95%	150/w050/				
(Non-condensation)	1370 9370					
Atmospheric pressure	70~106					
(kPa)	70 100					

Specifications subject to change without notice

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