

Anesthesia Machine

AX400-V



Technical Specification

Physical Characteristics

Size	773.5mm×1380mm×598mm
Weight	90kg
Entire Machine	
Maximum Bearing	
Weight	160kg
Screen Size:	8.4" TFT touch screen
Resolution	800 × 600
Handrail Length	412mm
Caster wheel	4 wheels 5" brakes;

Operation Environment

Working Temp	10~40°C
Humidity	≤93%
Power Supply	100-240V~, 50/60Hz±1Hz
Battery Type	Rechargeable Lithium-ion battery
Battery Capacity	4400mAh, 11.1VDC
Battery Recharging	4 hours for charging
Time	
Battery backup	2 hours for continuous working
Trace	Waveforms: Pressure-time; Flow rate-time; Capacity-time Optional: Pressure-volume Loops; Flow-volume Loops; Pressure- flow Loops

Top Plate

Maximum supporting capacity	50kg
Operational dimensions	535mm×235mm
Dimensions with Additional Accessory	508mm×313mm×380mm

Workbench

Maximum supporting capacity	20kg
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Operational

dimensions	465mm×275mm
Dimensions with Additional Accessory	472mm×248mm×380mm

Interface:

USB port
RJ45
3 auxiliary power output
AC power interface
Equal-potential grounding terminal
DB9 interface

Features

Drawers:	Size: 416mm×395mm×170mm Bearing Weight: 1Kg
Gas-bag Sway Brace:	Length: 320mm; Height: 240mm
Anesthesia process	Open, semi closed, closed circuit
Pet types	Small, Large
Mode	Manual, Mechanical, Standby
Compliance	Compliance Correction
Configuration	Possibility of configuration observation
Optional	Bypass; Heating; Oxygen sensor; ACGO; AGSS;

Ventilator Specification

Ventilation Modes

VCV/VC	Volume-Controlled Ventilation with tidal volume compensation
Others	Manual and automatic ventilation
Optional	PCV/VPC, SIMV-VC, PSV/ CPAP, SIMV-PC, PRVC
Ventilation principle	Chronometric, volumetric and barometric

Ventilation	Electronically controlled& pneumatically driven
Driven gas	O2(air: optional)
Breathing circuit volume	1000 ml + bag

Ventilator Setting ranges

Monitoring parameter	Tidal volume, Inspiratory, expiratory flow, minute volume, frequency, pressure (Pmean, Pplat, Ppeak, PEEP), Oxygen, concentration, Pressure, oxygen numerical values, compliance and pets' resistance
Tidal volume range	15 ~1500 mL (VCV) 5~1500 ml (PCV)
MV (Per-minute ventilation amount)	0~100 L/min
Pressure range (limit)	10~100 cmH2O
Pressure range (support)	3~60cmH2O
Respiratory rate	4~100bpm
Inspiratory /Expiratory ratio (I: E) range	4:1~1:10
Apnea I: E	4:1~1:8
Apnea time	10~30s
Apnea pressure	3~60cmH2O
Freq. Min. (Min. frequency for apnea- ventilation)	2-60 bpm
Inspiratory pause	OFF, 5~60% of inspiratory time
Inspiratory time	0.2~5s
Inspiratory pressure	5~70cmH2O
PEEP	OFF, 3~30cmH2O
Trigger pressure	-20~-1cmH2O
Trigger window	5~90%
Trigger flow	0.2~15 L/ min
Flush oxygen	25~75 L/ min
Inspiratory stop level	5~80%
Pressure slope	0~2.0s

Ventilator Monitoring Ranges

TV (Inspiratory tidal volume)	0~3000 mL
TV (Expiratory tidal volume)	0~3000 mL

MV (Per-minute ventilation amount)	0~100 L/min
FiO2 (Oxygen concentration)	18~100%
Airway pressure	-20~120cmH2O
PEEP	0~70cmH2O
Ppeak (Airway pressure)	-20~120 cmH2O
Pmean (Mean pressure)	-20~120cmH2O
Pplat (Platform pressure)	0~120cmH2O
I: E (Inspiratory- expiratory ratio)	4:1~1:12
Freq (Respiratory rate)	0~120 bpm
Compl (Compliance)	0~300 mL/cmH2O
Resistance	0~600 cmH2O/(s/L)

Ventilator Performance

Pressure range at inlet	0.28~0.6 MPa
Peak gas flow	>100 L/min
Flow valve range	1~100 L/min
Flow compensation range	200 mL/min to 18 L/min
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	Controlled by the electronic relief valve fitted inside the ventilator;
Controlling means for ventilator	Controlled by the mechanical relief valve fitted inside the ventilator.

Ventilator accuracy

Control accuracy

TV	15~60 ml: ±10ml; 60~210 ml: ±15ml; 210~1500 ml: ±7% of set value.
PCV	Inspiratory pressure: ±2.5cmH2O or ±7% of set value, whichever the greater. Limiting pressure: ±2.5cmH2O or ±7% of set value, whichever the greater.

[illegible]

Inspired oxygen	Low: 0 ~98L/min High: 20~105%
Ppeak	Low: 18 ~ 103% High: 2 ~100cmH2O
Apnea alarm	Low: 0 ~98cmH2O Two (2) triggering conditions are satisfied simultaneously: 1. Airway pressure is continuously lower than (PEEP +3) cmH2O for more than 30 seconds. 2. Expiratory tidal volume is continuously lower than 10ml for more than 30 seconds. Increase the set values of tidal volume and respiratory frequency, or set it to Manual/spontaneous mode.
Alarm	Audible and visual alarm;
Alarm access	Easy access by shortcut
Flow meters	
Type	Mechanical flow meter
Gas Supply	
Pipeline gasses	O2
Optional	O2, Air; O2, N2O; O2, N2O, Air
Backup	
gas-cylinder gasses	O2, N2O, Air
Pipeline gas connection	NIST
Backup cylinder connection	YOKE-CGA
Pressure range at inlet	280~600 kPa
Filter	60-80um
Features	Switch easily to the other gas without interrupting the ventilation
Auxiliary gas supply	O2(optional)

Breathing Circuit Specification

System Pressure Gauge

Range	-20~100 cmH2O
Accuracy	± (4% of full scales reading + 4% of reading)

Adjustable Pressure Limiting (APL)valve

Range	1~75 cmH2O
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Tactile knob indication at	>30 cmH2O
Accuracy:	±1.0 cmH2O
Minimum opening pressure	0.3 cmH2O (dry), 0.5 cmH2O (humid)

Breathing Circuit Parameters

Compliance	≤4mL/100Pa Automatically compensates for compression loss with in the breathing circuit in mechanical mode
Volume of CO2 canister	2000ml
Water Trap	7mL, easy to be disassembled
Feature	Heated at 134 degree, removable, easy to dismantle and sterilize

Active AGSS

Feature	High flow, low vacuum
Size	535mm×120mm×155mm
Weight	2.2kg
Applies	ISO 80601-2-13 and YY 0635-2
Pressure relief device	Atmospheric pressure compensation port
Connector	ISO9170-2 or BS6834 standard connector
Flow of suction	50-80L/min
Resistance	0.75KPa ,75L/min
Filter	Stainless steel mesh, with pore size of 60~100μm

ACGO

Connector	Taper coaxial fitting of 22mm (outside) and 15 (inside)
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Back pressure generated at the rear end of anesthesia vaporizer and the front-end of ACGO during quick oxygen charging	≤2kPa
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Flush O2

100% fast oxygen

Vaporizer

Brand	Drager and Penlon available
Locking	Vaporizer with interlocking system (Optional: Two vaporizers)



Automatic recognition Anesthesia machine able to automatic recognize halogenated gases

Power (No isolation transformer)

External AC power supply

Input voltage 100~240 V~/ 100~120V~
 Input current 3.5~8.5 A/8.5 A

Input frequency 50/60 Hz
 Leakage current < 500μA

Auxiliary output supply

Output voltage 100~240 V~/ 100~120V~
 Output frequency 50/60 Hz

Shipment (Freight)

Package size 1230*930*1610 mm
 Gross Weight 181.5 kg

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