Aeon8800A

Anesthesia Workstation

CE 0123

AEONMED
Reliable Quality Thoughtful Service

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The Aeon8800A Anesthesia Workstation is a high-level device from AEONMED, engineered based on clinical input and feedback.

The workstation has a user-friendly design, incorporates innovative technology, and provides the clinician with safe and effective treatment options for patients.

Modern Breathing Circuit

Safe, stable and efficient anesthesia management.

The characteristic breathing circuit is made of alloy, resistant to corrosion and can withstand repeated high temperature and high pressure sterilization.

Adjustable angle, easy to install, many user-friendly designs make maintenance easier.

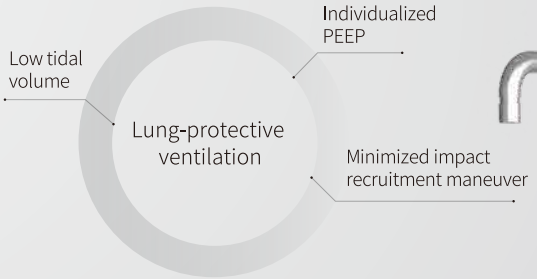
The integrated heating system with a better thermal conductivity of alloy help prevent condensation and make patients feel more comfortable.

APL with fast release pressure, the upper pressure limit is accurately adjustable, avoiding repeated operations and improving anesthesia efficiency.

The Breathing Ciucuit has CO_2 bypass function.

Lung-Protective Ventilation

Lung-protective ventilation is the current standard of care for mechanical ventilation. The risk of Postoperative Pulmonary Complications (PPCs) can be effectively reduced through Lung-protective ventilation strategy



Low tidal volume

The 8800A has a minimum tidal volume of 10ml in volume control mode, in addition to possessing the PCV-VG and BIVENT ventilation mode, helping to achieve the precise low tidal volume required during lung protective ventilation.

Individualized PEEP titration tool

Stress index (SI) monitoring helps with Individualized PEEP titration. Through the guidance of the Static PV loop tool, the appropriate setting of PEEP value and tidal volume are realized.

Minimized impact recruitment maneuver

Two types recruitment maneuvers: stepwise PEEP or sustained inflation. Automate repetitive tasks used during lung ventilation procedures.

Enhanced monitoring and clinical tools

In addition to traditional monitoring parameters, special monitoring parameters, such as Driving Pressure(DP), are provided to guide clinicians in adjusting ventilation parameters.

Spirometry loops can be stored for future reference, allowing clinicians the ability to better understand changes in the patient' s response to therapy.

Provide multiple of cardiopulmonary bypass modes (CBP) to assist in the implementation of cardiopulmonary bypass surgery.

Continuous trend information together with time discrete events are stored and shown in the table or chart.

Provides medical gas consumption calculations: including O_2, N_2O and Agent. And provide calculations of CO_2 production.

International standard data protocol support to connect to internet center of hospitals.

Ventilator-level ventilation modes

Aeon8800A is always your professional guard for lives, offering comprehensive and accurate respiratory care for all the patient types from infant to adult, helping clinicians to have more solutions for different clinical situations.

PPV | PCV | PCV-VG
SIMV-VC | SIMV-PC | SIMV-VG
PS / CPAP | BIVENT | APRV

PCV-VG
Combines the advantages of VCV and PCV, providing better oxygenation with lower peak inspiratory pressure.

SIMV-VG
Guarantees patients can breathe spontaneously between mandatory breaths with pressure support as a backup. It offers flexible respiratory solutions when anesthesia steps into different phases.

BIVENT / APRV
Pressure controlled breaths are provided by switching between a high and low airway pressure in an adjustable time sequence. Spontaneous breaths can be pressure supported at the high and low pressure levels.

Intelligent operations bring cost-efficient management

Digital Flowmeter with ECO-Optimizer

• Digital Flowmeter makes fresh gas flow setting easier and more precise.

• The ECO-Optimizer indicates the recommended fresh gas flow setting according to the setting value and the minimum O_2 needed of the patient. It enables a safe Low Flow, and reduces the waste of anesthetic agents and medical gases.

Necessity of Low Flow

Economical
Agents and Medical Gases in FGF

Pollution
Operating room, environment

Patient
Temperature and humidity

Driven Gas Auto-Switch

• By first using compressed air as the drive gas, Driven Gas Auto-Switch to reduce oxygen consumption, also ensure the patient is ventilated uninterruptedly.

• When the compressed air supply is disrupted, the Aeon8800A will automatically switch to O_2 driving gas.

Technical Specifications

BASE UNIT	
Dimensions (H x W x D)	
Trolley version (with breathing circuit)	1420×770×760 mm
Weight and load	
Trolley (without vaporizer and backup cylinder)	135 kg
Top shelf load	25 kg
Caster locking	
Braking Types	Central brake system
Power and battery backup	
Power input	AC 100~240 V, 50/60 Hz
Power outlets	4 sockets on back, 1.5A individual
Batteries and Operation time with fully charged	DC 24V, 4.0AH, Minimum 120 minutes
Environmental requirements	
Operation temperature	10~40 °C (50~104 °F)
Operation humidity	≤95% (non-condensing)
Storage temperature	-20~60 °C (-4~131 °F)
Storage humidity	≤95% (non-condensing)
ANESTHESIA GAS SUPPLY MODULE	
Gas supply	O_2, N_2O, AIR; 280～600kPa
Cylinder yokes	Optional: O_2, N_2O, AIR
Fresh gas flow indicator	Electronically controlled mixer
Range of fresh gas flow indicators	0~18L/min or set each gas independently: O_2, N_2O: 0~10L/min; AIR: 0~12L/min
O_2 flush	25~75 L/min
Auxiliary common gas outlet (ACGO)	Optional
Anesthetic Gas Scavenging System (AGSS)	Optional
Vaporizer	
Agent	Sevoflurane, Halothane, Enflurane, Isoflurane
Installation mode	Selectatec® with interlock, optional standby vaporizer parking holder
Filling type	Pour-Fill, Key-Fill, Quik-Fil®
Breathing system	
Volume of CO_2 absorber	1.5 L for single canister
APL Range	Spontaneous breathing (SP) -70 cmH_2O
Material	Autoclavable (except O_2 cell and airway pressure gauge)
Heating system	32-40 °C
CO_2 bypass	Optional
VENTILATOR OPERATING SPECIFICATIONS	
Ventilator	Pneumatically driven, Electronically controlled
Ventilation modes – standard	Manual/Spontaneous
	Volume control (IPPV)
	Pressure control (PCV)
Ventilation modes - options	Pressure Controlled Ventilation Volume Guaranteed (PCV-VG)
	Synchronized Intermittent Mandatory Ventilation in Volume (SIMV-VC)
	Synchronized Intermittent Mandatory Ventilation in Pressure (SIMV-PC)
	Synchronized Intermittent Mandatory Ventilation in PCV-VG (SIMV-VG)
	Pressure Support (PS) / Continuos Positive Airway Pressure (CPAP)
	Bilevel Positive Airway Pressure Ventilation (BIVENT)
	Airway Pressure Release Ventilation (APRV)
Control input ranges	
Breathing frequency (Freq)	2~100 bpm
Positive end expiratory pressure (PEEP)	OFF, 3~50 cmH_2O
Inspiration/expiration ratio (I:E)	4:1~1:8
Tidal volume (Vt)	10~1500 ml
Inspiration pause	OFF, 5%~60%
Inspiratory time	0.2~5.0 s
Inspiratory pressure (P_{TARGET})	5~70 cmH_2O
Pressure support level (ΔP)	3~60 cmH_2O
Pressure limit (Pmax)	10~100 cmH_2O
Trigger	0.5~15 L/min / -20~-1cmH_2O
Inspiratory Slope Time (T_{SLOPE})	0~2s
Compensation	Compliance and Leak compensation, fresh gas compensation, altitude compensation
Ventilator monitoring & alarm	
Monitoring	Continuous monitoring of inspiratory O_2 concentration, breathing frequency, tidal
	volume, minute volume, peak airway pressure, PEEP, mean or plateau pressure, I:E ratio,
	resistance, compliance. Option: driving preasure, stress index,CO_2 concentration,
	paramagnetic oxygen analyzer, anesthetic gas concentration with MAC
Trend storage	Maximum 720 hours of trend data table, 72 hours of trend chart
Medical gas calculations	Consumption of O_2, N_2O and Agent. Calculations of CO_2 production. require relevant gas monitoring
Control screen	15" TFT color touch screen
Graph Display	Waveforms of P-t, F-t, V-t, CO_2-t (option), P-V Loop, V-F Loop, P-F Loop
Alarm	MV high/low limit, F_iO_2 high/low limit, Paw high/low limit, Pow er failure
	High Freq, Negative pressure, Continuous airway pressure, Apnea alarm, etc.
	Alarm (Silence ≤120 seconds)
Alarm logging	500 items

Remark: Above configurations include standard and option. Please check price with your Aeonmed sales representative.

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HQ: Building 9, No.26 Outer Ring West Road, Fengtai District, Beijing 100070, China
Science Park: No. 10, Chaobai Street, Yanjiao Development Zone, Sanhe City, Hebei Province 065201, China
TEL: +86-10-5841 1198 FAX: +86-10-8368 1616-8130
Http: //www.aeonmed.com/en E-mail: marketing@aeonmed.com

AAM8800A-2022.03