



AW - 3009 Anesthesia workstation



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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>> Technical Specifications



BASE UNIT

Dimensions (H x W x D)	
Trolley version (with breathing circuit)	1403×704×750 mm or 55.2×27.7×29.5 in
Weight and load	
Trolley (without vaporizer and backup cylinder)	100 kg or 220.5 lb
Top shelf load	25 kg or 55 lb
Power and battery backup	
Power input	AC 100~240 V, 50/60 Hz
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	≤80% (non-condensing)
Storage temperature	-20~60 °C (-4~131 °F)
Storage humidity	≤95% (non-condensing)

ANESTHESIA GAS SUPPLY MODULE

Gas supply	O₂, N₂O, AIR; 260∼600kPa
Cylinder yokes	Optional: O ₂ , N ₂ O, AIR
Fresh gas flow indicator	Electronically display and virtual fresh gas
	flow tubes
Range of fresh gas flow indicators	O2, N2O (0~10.0 L/min), AIR (0~12.0 L/min)
	(increments of 0.05)
O₂ flush	35~75 L/min
Auxiliary common gas outlet (ACGO)	Optional
Anesthetic Gas Scavenging System (AGSS)	Optional

Ventilator Display

Accuracy	+/-2 % Vol
Reaction time	<500 ms150 ml/min
O2 (paramagenetic) In &Et.	Display:0-100%
Accuracy	+/-0.1%
Reaction time	<500ms150ml/min

Vaporizer

Agent	Halothane, Isoflurane Display:0-8.5 Vol%
	Enflurane, Sevoflurane Display: 0-10 Vol%
	Desflurane Display: 0-22%
Installation mode	Selectatec [®] with interlock, optional standby vaporizer parking holder
Filling type	Pour-Fill, Key-Fill, Quik-Fil®

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Breathing system	
Volume of CO₂ absorber	1.5 L
APL Range	Spontaneous breathing (SP) -70 cmH₂O
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
Patient Types	Adult, Pediatric and Neonate
Ventilation modes	Volume control (IPPV), Pressure control
	(PCV)
	Pressure Controlled Ventilation Volume
	Guaranteed (PCV-VG)
	Synchronized Intermittent Mandatory
	Ventilation in Pressure (SIMV-PC)
	Synchronized Intermittent Mandatory
	Ventilation in Pressure (SIMV-PC)
	Pressure support (PS) with Apnea Backup
	Manual/Spontaneous

Control input ranges

Breathing frequency (Freq)	2~100 bpm
Positive end expiratory pressure (PEEP)	OFF, 3~50 cmH₂O
Inspiration/expiration ratio (I:E)	4:1~1:8
Tidal volume (Vt)	20~1500 ml in Volume Control
Inspiration pause	OFF, 5%~60%
Inspiratory time	0.2~ 10 s
Inspiratory pressure (P _{TARGET})	5~70 cmH₂O
Pressure support level (ΔP)	3~60 cmH₂O
Pressure limit (Pmax)	10~100 cmH₂O
Trigger	0.5~15 L/min





Inspiratory Slope Time (T _{SLOPE})	0~2s
Compensation	Compliance and Leak compensation,
	fresh gas compensation, altitude
	compensation

Ventilator monitoring & alarm

Monitoring	Continuous monitoring of O₂ concentration,
	breathing frequency, tidal volume,
	minute volume, peak airway pressure,
	PEEP, mean or plateau pressure,
	CO ₂ concentration (optional), anesthetic gas
	concentration (optional) paramagnetic oxyg-
	en sensors (optional)
Compliance	0~100 mL/cmH₂O
Control screen	12.1" TFT color touch screen
Graph Display	Waveform of P-t, F-t, V-t, CO2-t (option), P-V,
	V-F, P-F Loop
Alarm	MV high/low limit, FiO2 high/low limit, Paw
	high/low limit, Power failure
	TV high/low limit, High Freq
	Negative pressure
	Continuous airway pressure
	Apnea alarm. Alarm Silence (≤120 seconds)

• The comprehensive ventilation modes (including PCV-VG and SIMV-PC) provide more flexibility in ventilation strategy, suitable for various patients and operations

- Advanced ventilation management provides accurate delivery and broad settings, enabling effective care across a wide range of patient types
- Support both low-flow anesthesia and mini-flow anesthesia
- Compact breathing system, easy to remove and clean, fully autoclavable
- Electronic flow-meter, precise control and convenient operation
- 12.1" TFT LCD color touchscreen, highlighted display
- Optional comprehensive gas monitoring includes: oxygen (paramagnetic), carbon dioxide, AG, etc.

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Ventilation Interface

 12.1" TFT LCD with touchscreen, simple intuitive interface
 Displays main ventilation parameters, monitored data information, message alert on same page • Audible and Visual alarms

Graph Display

P-L, F-L, V-t waveforms
P-V, F-V, P-F loops Optional CO2-t waveform
Reference loops for real-time contrast
Detailed trend data easy for review

Electronic Flow-Meter



Dual display: LED and virtual fresh gas flow tubes Assisted with mechanical flow-meter monitoring total gas volume Simple and efficient operation

Spotlight and Auxiliary Table Spotlight with LED light source, shadowless effect
Folding table expands work area and provides more space



Breathing System

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Large capacity CO2 canister
 Sast response suitable for low flow anesthesia
 Easy to remove and clean, fully autoclavable
 One step bag/vent switch
 Adjustable APL valve provides fast release function
 Optional CO2 bypass





HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicin	g:HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most
	affordable cost.
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AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-
	shooting.
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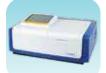




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HEMA 2062 Hematology Analyzer



Flash Chromatograph



Micro Plate Reader/Washer



Atomic Absorption



Liquid Partical Counter



Total Organic Carbon 3800



Water purification system



PCR/Gradient PCR/

RTPCR



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TOC Analyzer









URINOVA 2800

Urine Analyzer

Ion Chromatograph



Regulatory compliances



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

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