

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	O ₂ , N ₂ O, 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	O ₂ , N ₂ O (0~10.0 L/min), AIR (0~12.0 L/min) (increments of 0.05)
O ₂ 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
O ₂ (paramagnetic) 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 [®]

Breathing system	
Volume of CO ₂ absorber	1.5 L
APL Range	Spontaneous breathing (SP) -70 cmH ₂ O
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	<p>Volume control (IPPV), Pressure control (PCV)</p> <p>Pressure Controlled Ventilation Volume Guaranteed (PCV-VG)</p> <p>Synchronized Intermittent Mandatory Ventilation in Pressure (SIMV-PC)</p> <p>Synchronized Intermittent Mandatory Ventilation in Pressure (SIMV-PC)</p> <p>Pressure support (PS) with Apnea Backup Manual/Spontaneous</p>

Control input ranges

Breathing frequency (Freq)	2~100 bpm
Positive end expiratory pressure (PEEP)	OFF, 3~50 cmH ₂ O
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 cmH ₂ O
Pressure support level (ΔP)	3~60 cmH ₂ O
Pressure limit (Pmax)	10~100 cmH ₂ O
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 O ₂ concentration, breathing frequency, tidal volume, minute volume, peak airway pressure, PEEP, mean or plateau pressure, CO ₂ concentration (optional), anesthetic gas concentration (optional) paramagnetic oxygen sensors (optional)
Compliance	0~100 mL/cmH ₂ O
Control screen	12.1" TFT color touch screen
Graph Display	Waveform of P-t, F-t, V-t, CO ₂ -t (option), P-V, V-F, P-F Loop
Alarm	MV high/low limit, FiO ₂ 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.

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-t, F-t, 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

- Large capacity CO₂ canister
- Fast 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



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