

anesthesia MACHINE

AM-6000



GENERAL DESCRIPTION

Advanced has developed a simple to use, full featured anesthesia system, for use on a wide range of patients.

The AM-6000 Anesthesia System with its efficient and traditional design makes it a perfect fit for even the busiest operating rooms.

The AM-6000 is brimming with standard features which typically are options on most anesthesia delivery systems.

PERFORMANCE SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Dimensions

Height	1380 mm (54 in)
Width	650 mm (26 in)
Depth	690 mm (27 in)
Weight (without vaporizers or gas cylinders)	148 kg (326 lbs)

Top Shelf

Weight limit	25 kg (55 lbs)
Width	650 mm (25.6 in)
Depth	352 mm (14 in)

Work Surface

Width	568 mm (22.4 in)
Depth	262 mm (10.3 in)
Height	850 mm (33.5 in)

Drawers (3)

Height	127 mm (5 in)
Width	482 mm (19 in)
Depth	305 mm (12 in)

Casters

2 front non-locking dual wheel	12.5 cm (5 in)
2 rear locking dual wheel	12.5 cm (5 in)

Mounting Rails

Both sides of machine, top and bottom

PNEUMATIC SPECIFICATIONS

Central Gas Supply Requirements

O ₂	280 – 600 kPa (41 PSI – 87 PSI)
N ₂ O	280 – 600 kPa (41 PSI – 87 PSI)
Air	280 – 600 kPa (41 PSI – 87 PSI)

Central Gas Supply Connectors

Diameter indexed (DISS) threaded body as per CGA V-5

Cylinder Gas Supply Requirements

Three (3) E-Cylinder, O₂, N₂O, Air

Cylinder Gas Supply Connectors

PIN indexed (PISS) per CGA V-5

Fresh Gas Flowmeters

O ₂ high range	1 – 10 l/min
O ₂ low range	0.05 l/min – 1 l/min
N ₂ O high range	1 – 12 l/min
N ₂ O low range	0.05 l/min – 1 l/min
Air high range	1 – 15 l/min
Air low range	0.05 l/min – 1 l/min

Hypoxic Guard System and O₂ Controls

Provides a minimum of 21% concentration of oxygen in fresh gas in any O₂/N₂O mixture

Automatic N₂O cutoff, O₂ supply failure whistle and electronic alarm sounds when O₂ pressure falls below approximately 200 kPa.

O ₂ flush flow rate range	35 – 50 l/min
Waste gas scavenger port	30 mm OD

FRESH GAS DELIVERY SYSTEM

Vaporizer Attachment

Connection style	Selectatec
Number (max)	2

Aux O₂/Air Manifold

Flow rate (max)	20 L/min at 60% O ₂
O ₂ concentration range	21% – 100%

Breathing System

Temperature	Controlled to 35°C (95°F)
CO ₂ Absorbent	2 Loose fill or 2 prepacks
APL valve	300° rotation, 0 – 70 cm H ₂ O

VENTILATOR SPECIFICATIONS

Ventilator Operating Modes

Spontaneous and manual assist
Adult and pediatric CMV, PCV, PS, SIMV

Automatic Compensation

Fresh gas compensation	Automatic after confirmation
Breathing circuit compliance	Automatic after confirmation

Ventilator Display

Screen type	Color LCD
Screen size	Diagonal 264 mm (10.4 in)
Sweep speed	15 seconds Real-time
Graphic waveforms	Airway Pressure and Flow
Numeric data	Tidal Volume, Minute Volume, Peak airway pressure, PEEP, Mean or Plateau pressure, Breath Rate, FiO ₂
	Pressure vs Volume, Flow vs Volume

Spirometry loops

Tidal Volume

Deliverable range	40 – 1400 ml
Display range	0 – 2900 ml
Accuracy (adult)	+/- 15%
Accuracy (pediatric)	+/- 17% or 20 ml
Incremental setting	10 ml
Measurable range	0-2900 ml
Resolution	1 ml

Pressure Range

Manual mode	5 – 70 cm H ₂ O
Pressure control ventilation	5 – 70 cm H ₂ O
Accuracy (PCV)	+/- 4 cm H ₂ O (5 – 29 cm H ₂ O)
PS and SIMV	3-80 cm H ₂ O
Accuracy (PS, SIMV)	+/- 3 cm H ₂ O (3 – 35 cm H ₂ O)

Minute Volume Display Range

0.1 – 28 liters

Breath Rate Range (per minute)

Deliverable range	4 – 60
Display range	0 – 99

I:E Ratio

4:1 – 1:5

End Inspiratory Plateau Range

OFF, 5 – 60% (of inspiratory time)

Positive End Expiratory Pressure (PEEP)

Type	Electronically controlled
Range	3 – 30 cm H ₂ O
Accuracy (3 – 12 cm H ₂ O)	+/- 2 cm H ₂ O

FiO₂

Type	Galvanic
Display range	0 – 100%
Resolution	1 vol/vol%

Alarms

Minute volume	
Low limit range	0 – 20 L/min
High limit range	1 – 25 L/min
Airway pressure:	
Low limit range	0 – 70 cm H ₂ O
High limit range	10 – 80 cm H ₂ O

FiO₂

Low limit range	18 – 99 vol/vol%
High limit range	21 – 100 vol/vol%
Breath rate high limit range	8 – 60 pbm
Apnea - Manual mode	> 60 seconds
Apnea - SIMV or PS - breath rate below 6 bpm	> 35 seconds
Apnea - CMV and PCV - breath rate above 6 bpm	> 30 seconds
Alarm silence	2 minutes
Sub-atmospheric pressure	-2 cm H ₂ O
Sustained pressure alarm	15 Seconds

ELECTRICAL SPECIFICATIONS

Power and battery back-up

Mains power supply	120 VAC 60 Hz
Current Input	10A Total (5A for AS3000)
Power consumption	Approx. 200 VA
Power cord	Captive line cord
Battery	2 x 12 v / 5 Ah, rechargeable sealed lead acid
Battery run time	Approx. 45 minutes
Battery charge time	8 hours max, when machine is ON
Auxiliary Outlets	
Number and type of outlets	Four fused (2A each) hospital grade

ENVIRONMENTAL SPECIFICATIONS

System operation

Operating temperature	+10 – +40°C (50 – 104°F)
Storage temperature	-10 – +60°C (14 – 140°F)
Storage humidity	15 – 90% RH, non-condensing (operating and storage)

Materials

All materials in contact with patient gas are free of natural latex rubber

Specifications

Conditions defined at Ambient Temperature Pressure Dry