

# 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 <sub>2</sub>	280 – 600 kPa (41 PSI – 87 PSI)
N <sub>2</sub> 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, O<sub>2</sub>, N<sub>2</sub>O, Air

##### Cylinder Gas Supply Connectors

PIN indexed (PISS) per CGA V-5

##### Fresh Gas Flowmeters

O <sub>2</sub> high range	1 – 10 l/min
O <sub>2</sub> low range	0.05 l/min – 1 l/min
N <sub>2</sub> O high range	1 – 12 l/min
N <sub>2</sub> 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 O<sub>2</sub> Controls

Provides a minimum of 21% concentration of oxygen in fresh gas in any O<sub>2</sub>/N<sub>2</sub>O mixture

Automatic N<sub>2</sub>O cutoff, O<sub>2</sub> supply failure whistle and electronic alarm sounds when O<sub>2</sub> pressure falls below approximately 200 kPa.

O <sub>2</sub> 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 O<sub>2</sub>/Air Manifold

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

##### Breathing System

Temperature	Controlled to 35°C (95°F)
CO <sub>2</sub> Absorbent	2 Loose fill or 2 prepacks
APL valve	300° rotation, 0 – 70 cm H <sub>2</sub> 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 <sub>2</sub>
	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 <sub>2</sub> O
Pressure control ventilation	5 – 70 cm H <sub>2</sub> O
Accuracy (PCV)	+/- 4 cm H <sub>2</sub> O (5 – 29 cm H <sub>2</sub> O)
PS and SIMV	3-80 cm H <sub>2</sub> O
Accuracy (PS, SIMV)	+/- 3 cm H <sub>2</sub> O (3 – 35 cm H <sub>2</sub> 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 <sub>2</sub> O
Accuracy (3 – 12 cm H <sub>2</sub> O)	+/- 2 cm H <sub>2</sub> O

##### FiO<sub>2</sub>

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 <sub>2</sub> O
High limit range	10 – 80 cm H <sub>2</sub> O

##### FiO<sub>2</sub>

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 <sub>2</sub> 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