

# Veta 3

## Anesthesia Machine

### Redefining animal anesthesia machines

The Mindray Veta 3 Anesthesia machine consists of a main unit, anesthetic gas delivery system, anesthetic vaporizer, anesthetic breathing system (including the airway pressure gauge, CO2 absorbent canister, inspiratory and expiratory check valves, and APL valve), Anesthetic Gas Scavenging System (AGSS), and accessories.

#### VENTILATION MODES

- > Manual Ventilation
- > Non-rebreathing Ventilation



#### SPECIFICATIONS



##### Weight:

≤ 20 kg (excluding the trolley, anesthesia gas filter canister, oxygen generator; including accessories)

≤ 34 kg (excluding the anesthesia gas filter canister, oxygen generator; including the trolley and accessories)

**Top Shelf Weight Limit:**  
10 kg

**Oxygenerator Weight Limit:**  
30 kg



**Dimensions (H x W x D):**  
620 x 515 x 330 mm  
(excluding the trolley, anesthesia gas filter canister, oxygen generator; including accessories)

1215 x 620 x 690 mm  
(excluding the anesthesia gas filter canister, oxygen generator; including the trolley and accessories)

**Top Shelf:**  
342 x 256 mm

**Oxygenerator Size:**  
< 530 x 310 x 650 mm



**Number of Casters:**  
4, all with brakes

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## Pneumatic System Specifications

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### Pipeline Supply

Gas Type: Air, oxygen  
Gas Supply Pressure Range:  
280 kPa~600 kPa  
(40 PSI~87 PSI)  
Input Connector: NIST or DISS  
Connector Number: One (O2) or  
two (O2/Air)  
Pressure Gauge Range:  
0 kPa ~ 1000 kPa  
(0 PSI ~ 140 PSI)

### Oxygen Flush

Flow Range: 10 L/min~15 L/min  
(the gas supply pressure  
280kPa)

### Flowmeter

Number: One (O2) or two  
(O2/Air)  
Range: 0 L/min ~ 4 L/min  
Accuracy:  $\pm 0.1$  L/min or  $\pm 10\%$   
of the indicated value,  
whichever is greater

### Auxiliary Common Gas Outlet

Type: Mechanical Switch

## Anesthetic Gas Scavenging System Specifications

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### Active AGSS

Size: 430 x 132 x 120 mm  
Pump Rate:  
25 L/min ~ 50 L/min (low-flow)  
75 L/min ~ 105 L/min (high-flow)

### Passive AGSS

Connector: 30 mm OD conical

### Anesthesia Gas Filter Canister

#### Tray

Canister Size:  $\leq 130$  mm  
(diameter)  
Weight Limit: 2 kg

## Environment Specifications

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### Operation

Temperature (°C): 10 to 40  
Relative Humidity  
(noncondensing): 15% to 95%  
R.H.  
Barometric Pressure (kPa): 70  
to 106.7

### Storage

Temperature (°C): -20 to 60  
Relative Humidity  
(noncondensing): 10% to 95%  
R.H.  
Barometric Pressure (kPa): 50  
to 106.7

## Anesthetic Breathing System Specifications

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### Breathing System Leakage

System Leakage:  $\leq 75$  mL/min  
(under 3 kPa)

### Connector

Manual Bag Port: 22 mm OD /  
15 mm ID conical  
Inhalation: 22 mm OD /  
15 mm ID conical  
Exhalation: 22 mm OD /  
15 mm ID conical  
Scavenging Port: 30 mm OD  
conical

### CO2 Absorbent

Volume: 1500 mL

### APL Valve

Range: 0 cmH2O ~ 70 cmH2O  
Accuracy:  $\pm 10$  cmH2O or  $\pm 15\%$   
of the set value, whichever is  
greater  
Blocking Pressure: Original APL  
valve value + 30 cmH2O

### Airway Pressure Gauge

Type: Mechanical  
Range: -20cmH2O ~ 100cmH2O  
Accuracy:  $\pm (2.5\%$  of the full  
scale reading + 4% of the actual  
reading)

## Anesthetic Vaporizer Specifications

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### Vaporizer

Filling Methods  
Isoflurane: Pour Fill, Key Filler  
Sevoflurane: Pour Fill, Key Filler,  
Quik-Fil  
Weight: 6.0 kg (empty),  
6.5 kg (full)  
Filling Volume: 360 ml (dry  
wick), 300 ml (moist wick), 260  
ml (between the minimum and  
maximum marks)

### Concentration Range

Isoflurane: 0 vol. % ~ 6 vol %  
Sevoflurane: 0 vol % ~ 8 vol %  
Concentration Accuracy Range:  
 $\pm 0.25$  vol % or  $\pm 20\%$  of set  
value, whichever is greater