Veta 5

Anesthesia Machine

Redefining animal anesthesia machines

The Mindray Veta 5 Anesthesia machine consists of a main unit, anesthetic ventilator, anesthetic gas delivery system, anesthetic vaporizer, anesthetic breathing system (including the airway pressure gauge, bellow, CO2 absorbent canister, inspiratory and expiratory check valves, APL valve and Auto/Manual switch), Anesthetic Gas Scavenging System (AGSS), CO2 gas monitoring module and accessories.

VENTILATION MODES

- Volume Support Ventilation (VS)
- Volume Control Ventilation (VCV)
- Pressure Control Ventilation (PCV)
- Synchronized Intermittent Mandatory Ventilation (SIMV)
- Manual Ventilation
- Non-rebreathing Ventilation

SPECIFICATIONS

Weight:
≤ 30 kg (excluding the trolley, anesthesia gas filter canister, oxygen generator; including accessories)

≤ 43 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):
790 x 515 x 435 mm (excluding the trolley, anesthesia gas filter canister, oxygen generator; including accessories)

1375 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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Physical Specifications

Display
Size: 8”
Resolution: 1024 x 768
Brightness: Adjustable (1-10 level)
Touch Screen: Capacitive

LED Indicator
AC Power LED: One (Green. Lit when an AC power supply is connected)
Battery LED: One (Green. Lit when an AC power supply is connected; and extinguished when the battery is full of the machine is powered off.)

Audio Indicator
Speaker: Produces alarm tones and key tones; and supports multi-level volumes

Electrical Specifications

AC Power Input
Voltage: 100 - 240 V~
Frequency: 50 HZ/60 Hz

Internal Batteries
Number of Batteries: 1
Type: Lithium
Rated Voltage: 10.95 V
Capacity: 5,000 mAh
Min. Run Time: 120 minutes

Multi-functional Communication Port
Number: One
Type: DB9 male
Function: Supports the communication between the anesthesia machine and external devices to calibrate the pressure; and supports the connection with the scale to transfer the overweight signals and to calibrate or zero the scale.

Wired Network Port
Number: One RJ45
Type: 8 PIN RJ45
Function: Supports connection to a PC for software upgrading

SB Port
Number: One
Type: A type
Function: Supports exporting the configuration information and history data from a SB port; and supports upgrading the software.

Pneumatic System Specifications

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: ±0.1 L/min or ±10% of the indicated value, whichever is greater

Auxiliary Common Gas Outlet
Type: Mechanical Switch

Anesthetic Gas Scavenging System Specifications

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

Weighing Scale
Canister Size: ≤130 mm (diameter)
Weight Limit: 2 kg
Range: 0-2000 g
Accuracy: ± 20 g

Anesthetic Breathing System Specifications

Breathing System Leakage
Test Methods: Manual/Auto
System Leakage: ≤ 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: ±10 cmH2O or ±15% of the set value, whichever is greater
Blocking Pressure: Original APL valve value + 30 cmH2O

Airway Pressure Gauge
Type: Mechanical
Range: -20cmH2O ~ 100cmH20
Accuracy: ± (2.5% of the full scale reading + 4% of the actual reading)

Anesthetic Vaporizer Specifications

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: ±0.25 vol % or ±20% of set value, whichever is greater

Anesthetic Ventilator Specifications

Drive: Turbine
Working Mode: Standby/Manual/ACGO, Volume Support (VS), Volume Control Ventilation (VCV), Pressure Control Ventilation (PCV), Synchronized Intermittent Mandatory Ventilation (SIMV)

Setting Parameter
Vt: 5 mL ~ 1500 mL
Pinsp: 5 cmH2O ~ 50 cmH2O
△Psupp: 3 cmH2O ~ 50 cmH2O
PEEP: OFF, 3~30 cmH2O
RR: 2 bpm ~ 60 bpm
Min RR: 2 bpm ~ 60 bpm
I:E: 4:1 ~ 1:8
Tinsp: 0.2s ~ 10.0s
P-Trig: -20 cmH2O
F-Trig: 0.2 L/min ~ 15 L/min

Ventilator Monitoring Parameter
Vt: 0 mL ~ 3000 mL
MV: 0 L/min ~ 100 L/min
PEAK: -20 cmH2O~120 cmH2O
PEEP: 0 cmH2O ~ 70 cmH2O
RR: 0 bpm ~ 120 bpm

Ventilator Monitoring Accuracy
Vt: < 75 mL: ±15 mL
≥75 mL: ±20 mL or ±10% of the reading, whichever is greater
MV: ±1 L/min or ±15% of the reading, whichever is greater
PEAK: ±3 cmH2O or ±8% of the reading, whichever is greater
PEEP: ±3cmH2O or ±10%of the reading, whichever is greater
RR: ±1 bpm or ±5% of the reading, whichever is greater

Gas Monitoring Specifications

CO2 Gas Monitoring
Range: 0.0% (0 mmHg) ~ 20% (152 mmHG)
Resolution: 0.1%/1 mmHg
CO2 Accuracy: 0.0% (0 mmHg)~5.0% (40 mmHg): ±0.2 vol.% (±2 mmHg)
5.0% (41 mmHg)~10% (76 mmHg) (excludes 5%): ±5% of actual reading
10% (77 mmHg)~20% (152 mmHg) (excludes 10%): ±10% of actual reading

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