# Veta 5

## Veterinary Anesthesia Machine

### Physical Specifications

**Dimensions and Weight**

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

| | |
|---|---|
| Weight | ≤ 30 kg |
| Height | 790mm |
| Width | 515mm |
| Depth | 435mm |

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

| | |
|---|---|
| Weight | ≤ 43kg |
| Height | 1375mm |
| Width | 620mm |
| Depth | 690mm |

**Top Shelf**

| | |
|---|---|
| Length | 342mm |
| Width | 256mm |
| Weight limit | 10kg |

**Oxygenerator Frame**

| | |
|---|---|
| Oxygenerator size | <530×310×650mm |
| Weight limit | 30kg |

**Castor** 4，all with brakes

**Display**

| | |
|---|---|
| Size | 8" |
| Resolution | 1024*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 or 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 to 240 V~ |
| Frequency | 50 Hz/60 Hz |

**Internal Batteries**

| | |
|---|---|
| Number of batteries | One |
| Battery type | Lithium battery |
| Rated battery voltage | 10.95 V |
| Battery capacity | 5,000 mAh |
| Minimum battery 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 weigher to transfer the overweight signals and to calibrate or zero the weigher. |

**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(40PSI~87PSI) |
| Input connector | NIST or DISS |

Connector number

One($O_2$) or two($O_2$/Air)

Gas supply pressure gauge range

0kPa ~ 1000 kPa(0PSI~140PSI)

**Oxygen Flush**

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

**Flowmeter**

Number One(O2) or two(O2/Air)

Range 0L/min ~ 4 L/min

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

**Auxiliary Common Gas Outlet (ACGO)**

Type Mechanical switch

## Anesthetic Breathing System Specifications

**Breathing System Leakage**

Test Methods Manual / Auto

System leakage ≤75mL/min (under 3kPa)

**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

**$CO_2$ Absorbent**

Volume 1500mL

**APL Valve**

Range 0cmH2O~70cmH2O

Accuracy ±10cm$H_2O$ or ±15% of the set value, whichever is greater

Blocking pressure

Original APL valve value+30cmH2O

**Airway Pressure Gauge**

Type Mechanical

Range -20cmH2O~100cmH2O

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 6.0kg (empty)

6.5kg (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

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

## Anesthetic Gas Scavenging System Specifications

**Active AGSS**

Size 430mm×132mm×120mm

Pump rate 25L/min~50L/min (Low-flow)

75L/min~105L/min (High-flow)

**Passive AGSS**

Connector 30 mm OD conical

**Weighing scale**

Canister size ≤130mm (diameter)

Weight limit 2kg

Range 0-2000g

Accuracy ±10g

## 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 5mL~1500mL

Pinsp 5cmH2O~50cmH2O

△Psupp 3cmH2O~50 cmH2O

PEEP OFF,3~30 cmH2O

RR 2bpm~60bpm

Min RR 2bpm~60bpm

I:E 4:1~1:8

Tinsp 0.2s~10.0s

P-Trig -20cmH2O~-0.2cmH2O

F-Trig 0.2L/min ~ 15L/min

**Ventilator Monitoring Parameter**

Vt 0mL~3000mL

MV 0L/min~100L/min

PEAK -20cmH2O~120cmH2O

PEEP 0cmH2O~70cmH2O

RR 0bpm~120bpm

**Ventilator Monitoring Accuracy**

Vt <75mL：±15mL

≥75mL：±20mL or ±10% of the reading, whichever is greater

| | |
|---|---|
| MV | ±1L/min or ±15% of the reading, whichever is greater |
| PEAK | ±3.0cmH2O or ±8% of the reading, whichever is greater |
| PEEP | ±3.0cmH2O or ±10% of the reading, whichever is greater |
| RR | ±1bpm or ±5% of the reading, whichever is greater |

## Gas Monitoring Specifications

### CO2 Gas Monitoring

| | |
|---|---|
| Range | 0.0%(0mmHg) ~ 20% (152mmHg) |
| Resolution | 0.1%/1mmHg |
| CO2 accuracy | 0.0% (0 mmHg) ~ 5.0% (40 mmHg): ±0.2 vol.% (±2 mmHg)<br>5.0% (41 mmHg)~ 10% (76 mmHg) (excludes 5%): ±5% of actual reading<br>10% (77 mmHg)~20% (152 mmHg) (excludes 10%): ±10% of actual reading |

## Environment Specifications

### Operation

Temperature (℃)

10 to 40

Relative humidity (noncondensing)

15% to 95% R.H.

Barometric pressure (kPa)

70 to 106.7

### Storage

Temperature (℃)

-20 to 60

Relative humidity (noncondensing)

10% to 95% R.H.

Barometric pressure (kPa)

50 to 106.7

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