



**veterinary technics** Int.  
BDO - MEDIPASS *medical division*

## Anesthesietoestel de Multiplus ME



# MULTIPLUS Anesthesia Machine

## SPECIFICATIONS

### 1.2-GASSED BASIC MACHINE

#### 1) GAS SUPPLY BOX

- Pipeline system : O<sub>2</sub>/N<sub>2</sub>O, diameter-indexed
- Pressure gauge : O<sub>2</sub>/N<sub>2</sub>O : 0-10kgf/cm<sup>2</sup>
- O<sub>2</sub>/N<sub>2</sub>O piping station block with pressure gauge and 5m hose

#### OPTION

- Yoke system : O<sub>2</sub>/N<sub>2</sub>O, Pin-indexed
- Pressure gauge : O<sub>2</sub>/N<sub>2</sub>O : 0-250kgf/cm<sup>2</sup>

#### 2) FLOWMETER

- Colour coded safety system :  
O<sub>2</sub> : Green  
N<sub>2</sub>O : Blue

Note : Even any other colour code in compliance with your country standard like EU, Canada, etc is available.

- Scale : O<sub>2</sub> : 0.1-10LPM  
N<sub>2</sub>O : 0.1-12LPM

#### OPTION

- Anti-hypoxia system : Minimum 25% O<sub>2</sub> at about 3kgf/cm<sup>2</sup>
- 3 Gassed flowmeters O<sub>2</sub>, N<sub>2</sub>O, Air

#### 3) VAPORIZER MOUNTING RAIL

- Designed to install up to maximum two cagemount vaporizers.

#### OPTION

- It is possible to use SELECTATEC vaporizers, if additionally installed with one or two stations manifold for SELECTATEC vaporizers.

#### 4) OXYGEN FLUSH VALVE

- Self-returning push button
- Flow: 25-75 LPM at 4 kgf/cm<sup>2</sup>

#### 5) N<sub>2</sub>O SAFETY CUT-OFF VALVE FOR OXYGEN SUPPLYING FAILURE

- When the pressure of the supplying oxygen drops below about 2.5kgf/cm<sup>2</sup>, nitrous oxide will be automatically shut off to protect a patient from the danger of hypo-oxygenation.

#### 6) ALARM WHISTLE FOR OXYGEN SUPPLYING FAILURE

- Whistle more than 7 seconds to warn a danger when the pressure of supplying oxygen drops below about 2.5kgf/cm<sup>2</sup>

#### 7) PRESSURE RELIEF VALVE

To protect the machine from over supplying gas pressure, open the valve at about 8kgf/cm<sup>2</sup>

#### 8) WEIGHT : About 15kg

#### 9) DIMENSION : H475mm × W350mm × D190mm

### 2. 'SHEI' TEMPERATURE COMPENSATED VAPORIZER

- Single-handed control dial
- Halothane, Enflurane, Isoflurane, Sevoflurane : 5 vol%

Note : Customized vaporizers by 4 vol% or 7 vol% are available on request.

- Concentration increments :

0-2 vol% in 0.2 intervals  
2-5 vol% in 0.5 intervals

- 3 vol% safety lock

- Agent capacity : 300 ± 10ml
- Non-contamination-baffle in the anesthetic agent reservoir can prevent chamber inside from contaminating due to accidental tilting or inverting.

- Mounting type : Cagemount or Selectatec

- Weight : 6.6kg

- Dimension : H216mm × W106mm × D126mm

### 3. 'SINGLE' CO<sub>2</sub> ABSORBER SYSTEM

- Inspiration valve

- Expiration valve

- Capacity : Approximately 1kg × 1canister

- Pop-off valve

- Patient gauge : - 20 -- + 100cmH<sub>2</sub>O

- Weight : 7kg

### 4. 'DUAL' CO<sub>2</sub> ABSORBER SYSTEM

- Inspiration valve

- Expiration valve

- Capacity : Approximately 1kg × 2 canisters

- Pop-off valve

- Patient gauge : - 20 -- + 100cmH<sub>2</sub>O

- Weight : 7kg

### 5. 'I' TYPE MOBILE STAND WITH BASKET

- Basic frame with aluminium profile support on base

- 5" × 4 anti-static casters with 2 break system

- Plate with 2 fixing screws for mounting of 'MULTIPLUS' main unit

- Holder for pipeline hoses

- Basket

- Dimension : H785mm × W470mm × D600mm

- Weight : 19kg

### 6. 'E' TYPE MOBILE STAND WITH TWO DRAWERS AND TOP SHELF

- Basic frame with long aluminium profiles support at left side

- 5" × 4 anti-static casters with 2 break system

- Plate with instruments tray and 2 fixing screws for mounting of 'MULTIPLUS' main unit

- Top shelf

- Two drawers

- Holder for pipeline hoses

- Dimension : H1420mm × W450mm × D600mm

- Weight : 46kg

### 7. VENT-V<sup>®</sup> ANESTHETIC VENTILATOR ADULT/INFANT COMPATIBLE

Adult and Infant are compatible.

General

- Operating power source : 85-264 Vac, 50/60Hz, 30 Watts

- Battery : 12 Vdc, 1.2 AH × 1ea

- Auto-zeroing : Automatic zeroing for pressure reference

- Back-up of working parameters for fast operation

- Service mode for calibration of the pressure sensor

- RS 232 C serial data output (Option)

Digital LED Display

- Volume monitor (Option)

- Breathing rate

- I:E ratio

- Low pressure alarm limit

- Peak pressure

- High pressure alarm limit

LED Indicator

- Apnea

- High and low pressure alarm

- Low battery

- Normal working indicator by internal battery under electric power failure

- Charging

Control

- Microprocessor controlled ventilator

- Volume and time controlled ventilator

- Power switch : On/Off(Stand-by), touch switch

- Ventilation rate : 5-80 bpm

- Tidal volume : Maximum 1500 ml  
0 to 300 ml for infant

Note : For using with infant you have to make an order the infant bellows chamber kit additionally.

- I:E ratio : 1:1.0 - 1:3.0

- Pressure alarm limit :

High / low, 5-80 cmH<sub>2</sub>O / 0-78 cmH<sub>2</sub>O

- Automatic and manual alarm setting for high and low pressure alarm limit

- Mute : 60 sec. alarm silence

Safety

- Relief at high pressure limit setting value

- Ultimate relief valve at 80 cmH<sub>2</sub>O

Audible and Visual Alarms

- Apnea

- High and low pressure alarm

- Low battery

### 8. OPTION

#### SPHYGMOMANOMETER

- Aneroid : 0 - 300mmHg

#### SCAVENGING INTERFACER

- Passive type or active type - active type is needed the vacuum source

- Negative valve : Open at 0.5cmH<sub>2</sub>O

- Positive valve : Open at 10 cmH<sub>2</sub>O

- Reservoir bag : 2 Liter

Specifications subject to change without notice. SELECTATEC is a BOC trade mark.

