

# Avante MVP

## Portable Ventilator

### VENTILATOR

- › Pneumatically driven
- › Time-cycled
- › Pre-set flow rate
- › Time controlled
- › Volumes derived from Time and Flow
- › Internal diaphragm allows for patient spontaneous breathing

### USAGE

- › For emergency ventilation of patients with allowance for spontaneous breathing
- › For use during anesthesia in conjunction with an Anesthesia Trolley/Workstation for ventilation

### TECHNICAL SPECIFICATIONS

#### General Conditions

##### Supply Pressure

- › Specified connection 4 bar medical air or Oxygen
- › Working Range 3.5 to 8 BarG specified range which is the typical pressure delivered by 4 bar and 7 bar pipelines
- › 2.8 to 10 BarG shall cause no safety hazard in single faulty condition

##### Supply Quality

- › Clean Dry medical grade Air/Oxygen

##### Gas Supply Temperature

- › 10°C to 40°C

##### Filtration Required within Ventilator

- › 40 Micron or better

##### Environmental Temperature storage and transport

- › -5°C to 50°C

##### Transport Temperature

- › -18 °C to 60°C

##### Environmental Temperature operating

- › 10°C to 40°C

#### Flow Control

##### Flow Range

- › 0.1 to 1 Litre per second
- › +/-10% of set value

##### Adjustment Range

- › Rotary Control 300° +/- 5°
- › Graduation 0.25, 0.25, 0.75, 1.0 control will be non-linear

#### Input Fittings

Input fitting to Ventilator will be a BSP threaded port.

#### System On/Off Control

##### Type of Operator

- › ¼ Twist bi-stable control knob with on/off indicator symbols

#### System Pressure Regulator

This is supplied pre-set and shall NOT be user adjustable without removing the cover of the unit using tools.

This is a safety feature to prevent excessive pressure in a single failure mode.

#### On Timer

##### Timing Range

- › 0.25 to 2.5 seconds
- › +/- 10% of set value

##### Adjustment Range

- › Rotary control 300° +/- 5°
- › Graduation 0.25, 0.5, 1.0, 1.5, 2.0, 2.5 control will be non-linear



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## TECHNICAL SPECIFICATIONS (CONT.)

### Airway Manometer

Respiratory manometer with a range of -20 to 100 cmH<sub>2</sub>O

- › Major graduations at increments of 10 cmH<sub>2</sub>O stating the value
- › Minor graduations at increments of 2 cmH<sub>2</sub>O without numbers

### Patient Valve

Connection to breathing circuit connections 22mm with 15mm internal female taper.

Integral pre-set pressure limiting safety valve 60 cmH<sub>2</sub>O ± 2.5 cmH<sub>2</sub>O.

### Usability

The four rotary controls will include:

- › On/Off
- › Inspiratory Flow
- › Inspiratory Time
- › Expiratory Time

The controls will enable a constant flow during the inspiratory phase and infinite variability of I:E settings within the range of the controls.

### Materials

All materials will be compatible with air and oxygen.

No animal tissues or derivatives thereof are to be used in the device or its manufacturing process.

