

# Avante Respiratory Support System (RSS)

A simple, effective solution for all of your ventilation needs

Avante's Respiratory Support System (RSS) combines multiple proven Avante products into one functional mobile system for your complete invasive and non-invasive ventilation needs. This system will allow intubated or masked patients to receive ventilation care in either an ICU or transitional care setting. The RSS connects to your air or oxygen source and is compatible with most existing hospital medical gas infrastructures. This system is new and features a one year warranty.

## Avante MVP Ventilator

Provides ventilation with the benefit of allowing spontaneous breathing

- Pneumatically driven
- Provides invasive and non-invasive ventilation
- Pre-set flow rate
- Volumes derived from Time & Flow
- Includes reusable PEEP valve, patient circuit and hose

## Avante Waveline ECO Patient Monitor

This user-friendly monitor offers superb performance, measuring up to six parameters on a high-tech, low-power screen

- ECG, NIBP, SPO2, Temp & Respiration
- Also available with optional EtCO2
- Choose from multiple language options
- Long-life battery backup
- Includes standard accessory packet

## Avante PH300 Humidifier

Delivers warm and humidified air and oxygen to patients.

- Designed for use with all ventilators
- Adjustable temperature control
- Please specify 110 or 220 volt

## Avante High-Low Flow Oxygen Blender

Mixes medical grade compressed air and oxygen to provide a pressurized gas source ranging from 21 to 100 percent oxygen.



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# SPECIFICATIONS

## Avante MVP Ventilator

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### 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

### 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.

### 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

### 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

### 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

### 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.

### Material

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.

## Avante Waveline ECO Patient Monitor

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### Display

12.1 inch display

800 x 600 resolution

### Electrical

3.5 hour battery duration

### Storage

2000 NIBP measurements

200 alarm events

48 hours waveform data

1000 hours trend diagram review

1000 hours trend table review

120 minutes dynamic trend

### Interface Options

All leads display interface

Trend coexistence interface

Large font Interface

NIBP review interface

Respiratory oxygenation map interface

## SPECIFICATIONS (cont.)

### Avante PH300

#### Humidifier

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##### General

Classification

Class IIb, Type B, IPX1

Supply Voltage/Frequency

220/110V, 50/60Hz

##### Heater

Heater Plate

150W

Heater Wire (Max.)

22V-, 2.73A, 60W, 50/60Hz

Plate Over-temperature Cut Off

95±5°C

Temperature Monitoring

0-75°C

### Avante High-Low Flow

#### Oxygen Blender

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##### General

Size

3.5" H x 2.25" W x 4.5" D  
(9 cm x 5.6 cm x 11.5 cm)

Weight

2.75 lbs (1.4 kg)

##### Pressure

Gas Supply Pressure

30-75 PSIG (207 kPa - 517 kPa)

Knob Adjustment Range

21% - 100%

##### Flow

Primary Outlet Flow Range

15 to 120 LPM (no bleed)

Maximum Flow @ 60% Knob Setting

120 LPM

Flow @ 21% of 100% Knob Setting

90 LPM

Auxiliary Outlet Flow Range

2 to 100 LPM (bleed 10-12 LPM)

Accuracy

±3% of full scale over the stated  
flow ranges

##### Alarm

Alarm/Bypass Activation

When inlet gas pressures differ by 20  
PSI ±2 (138kPa ±13.8) or more

Alarm Sound Generator

Vibrating reed

Alarm/Bypass Reset

When inlet pressure differential is  
6 PSIG (41.4 kPa) or less