

Specifications for Anaesthesia Work Station.

Major Parameters.

Operating modes Standard:

Manual/Spontaneous.

Volume Controlled Ventilation should have: Option: Pressure Controlled Ventilation

Option: Pressure Support

Option: Synchronized Volume Controlled

Ventilation w/PS (SIMV/PS).

Breathing frequency 4 to 60 bpm.

Max. minute volume (MV) 99 L/min

Positive end-expiratory pressure (PEEP) 0 - 20 cmH₂O.

Inspiration/expiration ratio (Ti:Te) 4 : 1 to 1 : 4.

Pressure limiting (Pmax) 15 - 70 cmH₂O.

Tidal Volume (Vt) 20 - 1400 mL in Volume Control 20 - 1100 mL in SIMV/PS

Inspiratory pause (Tip:Ti) 0 - 50 %.

SIMV inspiratory time (T_{insp}) 0.3 - 4.0 sec.

Inspiratory pressure (P_{insp}) PEEP + 5 to 65 cmH₂O.

Inspiratory flow (InspFlow) 10 - 75 L/min in Volume and Pressure Control.

10 - 85 L/min in Pressure Support.

Pressure Support Level (PPS) PEEP + 3 to 20 cmH₂O.

Min. frequency for 3 - 20 bpm and "OFF" apnea-ventilation (Freq. Min.).

Trigger 2 - 15 L/min.

Integrated safety functions Sensitive Oxygen Ratio Controller (S-ORC) delivers a minimum O₂ concentration of 21% in an O₂/N₂O mixture.

N₂O cut-off if O₂ fresh gas valve is closed or if O₂ flow is less than 0.2 L/min.

Audible and visual (flashing red LED) indication in case O₂ pressure drops below 20 psi (1.38 bar) ±4 psi (0.27 bar).

In case of electricity and battery failure, manual ventilation, gas delivery and agent delivery should be possible.

Positive pressure relief valve opens at 75 ± 5 cmH₂O.

Negative pressure relief valve opens at -7.5 to -9 cmH₂O.

Range of fresh gas flow tubes 0.00 to 12.0 L/min

O₂ flush at 55 psi (3.8 bar): max. 75 L/min;

at 50 psi (3.4 bar): min. 35 L/min

Optional off-line vaporizer parking position.

Monitoring Continuous monitoring of inspiratory O₂ concentration, breathing frequency, tidal volume, minute volume, peak airway pressure and PEEP, as well as selection of mean or plateau pressure.

Communication interface 1x RS 232 (standard) Protocols.

Data available for export All ventilation and O₂ data

Volume of CO₂ absorber 1.5 Liter (standard) [option: Prefilled CLIC absorber with 1.2 Liter]

Volume of entire compact breathing system 2.8 Liter + bag.

Gas supply O₂, N₂O & Air.

Minor parameters.

Trolley Mount (cart) approx. 111 kg (245 lbs.)

Dimensions:-Trolley Mount (cart) approx. 76.5cm x 132 cm x 72 cm

Power supply 100 - 240 VAC, 50/60 Hz., 2.3 A max.

Operation time with fully charged batteries up to 120 minutes, minimum 45 minutes

Ventilator E-vent Electronically controlled, electrically driven.

Additional accessories Patient suction, auxiliary oxygen flow tube.

Should provide a previous customers list with satisfactory performance report.

Firm may submit its past supply performance/credentials e.g. ISO certificate etc.

User/Technical/Maintenance manuals to be supplied in English.

Firm must confirm for entering into AMC/CAMC with consignee after expiry of warranty period.