Annexure -A

Technical Specification

Model number: **AV-AD-Covid**

PC-CMV, PC-SIMV, PSV, VC-SIMV, VC-CMV, PRVC, ACV, CPAP, BPAP
Battery 60 watt-hour Lithium-Ion Battery (4 hours backup) Power Consumption 15 watts (Nominal) 70 watts (Peak)
Peak Flow rate 240 Litres per minute
PEEP 0 cm H_2O to 30 cm H_2O (increments of 1 cm H_2O) Trigger Flow Sensitivity 1 Liter per minute to 20 Liter per minute Volume Accuracy 10% of the full scale between (10 L/min - 801/min) Peak Pressure 60 cm H_2O
Peak Respiratory rate 60 Breath per minute
Minimum inspiratory time 0.3 seconds
Tidal Volume 50 ml to 2000 ml (increments of 1 ml)
Leak Volume Compensation Yes
Trigger Compensation Yes
Inspiratory & Expiratory Hold Yes
FiO2 Capability Yes

*100% at input flow rate of 15 L/min of pure oxygen with MVi of less than 12 L and PEEP < 6
*Upto 80% at an input flow rate of 15 L/min of pure oxygen with MVi of more than 15 L and PEEP < 6

Inspiratory pause and expiratory pause would be available in the offered ventilator

Monitored Parameters

Parameters	Unit	Type	Range
Flow	L/min	Waveform	-50 - +80
Volume	ml	Waveform	0 - 2000
Airway Pressure	cmH_2O	Waveform	0-60
Peak Pressure	cmH_2O	Numeric	0-60
Respiratory Rate	Breaths per Minute	Numeric	0-99
Peep	cmH_2O	Numeric	0-30
Pmean	cmH_2O	Numeric	0-50
VTi	ml	Numeric	0 - 2000
VTe	ml	Numeric	0 - 2000
MVi	Liters	Numeric	0-50
MVe	Liters	Numeric	0-50
Leak Percentage	Percentage	Numeric	0-100

Leak Flow	L/min	Numeric	0–100
Plateau Pressure	cmH_2O	Numeric	0 – 60
Auto Peep	cmH_2O	Numeric	0 – 60
Dynamic Compliance	ml/cmH_2O	Numeric	0–500
Ti/Ttot	Percentage	Numeric	20 – 100
FiO2	Percentage	Numeric	21 – 100
I:E Ratio	Ratio	Numeric	Actual
Static Compliance	ml/cmH_2O	Numeric	0–100
Trigger		Alphabetic	-

In addition to this user set alarm are also available

Alarms:

Parameters	Conditions
Power Disconnected	Power Supply unplugged
Patient Disconnected	PIP <(Desired Pressure x 0.6)
High Inspiratory Pressure	PIP > Support Pressure + 3
High Peep	PEEP > Set PEEP + 2 or 6 Consecutive cycles
High Respiratory Rate	RR>70
Power Sensor Failure	Power sensor fails to
Read/Write Error	Settings saved in memory could not be read
Ventilator Temperature Error	The core temperature of ventilator CPU greater than $85^{O}C$
System Failure (Safe Mode)	Vital components
Low Tidal Volume	VTI < Set VT * 0.75 for 6 consecutive cycles

1 Year Warranty

Inclusions:

- All electronics parts like sensors, electronic circuit, power supplies etc.
- Air delivery mechanism.

Exclusions:

- Consumables such as Oxygen sensor, Battery, Turbine, Patient Circuit.
- Any damage due to manhandling like incorrect power source, forced insertion of foreign object, water damage and the like.
- Any physical damage.

Consumable Cost & Frequency:

- Oxygen Sensor: Replaced every 1 year.
- Turbine: Guaranteed for 8000 hours and replaced every 8000 hours or 2 years whichever is earlier.
- Battery: Replaced every 2 years cost.
- Expiratory Valve : Ideally changed for every patient or 14 days whichever is earlier.
- Proximal Flow sensor: Changed with every patient or 7 days whichever earlier.
- Inspiratory Valve: Ideally changed for every patient or 14 days whichever is earlier.
- All the Changes Would be at Additional Cost or CMC per Year after 1 Year for warranty is USD $2500

Packing List:

- 1 unit of AgVa Advance Covid Ventilator.
- 1 AgVa Stand.
- 1 Set of Tubing.
- 1 User Manual.
- 1 Warranty card.
- 220 volt power cable.
- 12 volt power cable.
- Stand Attachment.