

**Advanced technology, Modular Design, Open Architecture, Ease of Use  
With an integrated design and excellent quality, each anesthesia is custom  
built to meet your requirements**

- Mechanical flow meter
- Twin selectatec mounting for agent specific temperature and pressure compensated vaporisers
- Pin indexed yokes for O<sub>2</sub> and NO<sub>2</sub>
- NIST inlets for piped medical gases for O<sub>2</sub> NO<sub>2</sub> & Air as standard
- Single Bi-stable system ON / Off switch for gases & power supply
- Pull out writing table
- Common gas outlet (CGO)
- Open/Close change over switch for convenient switch- over from open to closed system
- Suitable for open, semi- open & closed circuit system application
- Electrical outlets for running other medical equipment
- Auxiliary O<sub>2</sub> outlets with flowmeter as standard

**Vita "plus"  
A-20**



**Some The Major Hospital Using Our Machines**

## OPTIONAL FEATURES

- Aspirator suction (Gas Powered)
- AGSS system
- Up to 4 nos. Pin indexed cylinder yokes
- Side arm for patient monitor
- Neuro muscular monitoring module
- Basal Flow for oxygen
- Anaesthetic Gas Module and EtCO<sub>2</sub> Monitoring
- Virtual Flowmeter
- Neonatal mode (5ml,V)

**World Class Quality & Safety Assurance**

## INTEGRATED VENTILATOR

Integrated microprocessor based sophisticated pneumatically driven and electronically controlled ventilator incorporating simplicity with all the advantages of modern ventilators. It provides optimum patient care includes in-built battery backup in case of mains failure.

## FEATURES

- High- luminance and wide display
- 10.1" Touch screen
- Ventilation modes : VCV, PCV, SIMV-V, SIMV-P, PSV, SPONT & Manual
- Monitoring Parameters (Measured Values) VT, Frequency, FiO<sub>2</sub>, Ppeak, MV, PEEP, Cdyn
- Tidal Volume Range From 20ml to 1500ml suitable for Adult, Pediatric & Neonates
- Volume Compensation and electronic PEEP. Automatically compensates for fresh gas flow, system leak and the compliance change in the circuit
- Ascending bellows provides immediate visual information on the adequacy of fresh gas flow and gives an indication of any system leak
- Cardiac Bypass mode
- Integrated Pressure, Volume and Oxygen monitoring
- Self test, leak test and compliance test
- Adult to pediatric mode
- Waveforms: Flow- Time, Volume - Time
- Spirometry Loops: Flow - Volume, Volume - Pressure
- Setting Parameters  
VT (Tidal Volume), Frequency, I:E ratio, Tip (Inspiratory pause time), Pmax, PEEP, Vsens (Triggering flow sensitivity), SIGH, Tapn, P- Alarm Parameters  
Continuous Positive Airway Pressure, Airway Pressure (high & low), FiO<sub>2</sub> (high & low), MV (high & low), Frequency (high & low), Apnea, A/C failure, Battery low, Self-test O<sub>2</sub> failure alarm



**VAPORIZERS**

## PATIENT SAFETY FEATURES

- Anti Hypoxic Device ensures a minimum of 25% O<sub>2</sub> all times and cuts off NO<sub>2</sub> Supply if O<sub>2</sub> Fails
- Audio Visual Alarm for O<sub>2</sub> failure
- O<sub>2</sub> Flush 35 to 70 LPM O<sub>2</sub> Flow
- System pressure relief at 125 cm HO<sub>2</sub>

## VAPORIZERS

- Calibration range : 0 to 5% to 8% using a Laser refractometer
- Easy to turn dials for safety Lock to prevent accidental turn on.
- Agent specific vaporisers designed to provide constant outlet.
- Available screw fill, meditec Fill or Quik Fill
- Interlock mechanism to lock in series with other Vaporisers.
- Individually Calibrated for each specific anesthetic drug.
- Agent capacity : 250 ± 25ml.
- Available for Halothane, Isoflurane, Sevoflurane.

## CIRCLE SYSTEM ABSORBER

- Bypass switch allow canister change during ventilation
- Bag/ventilator switch - Easy changeover from ventilator to bag & vice versa
- Integrated airway pressure manometer
- Moisture drain valve
- Quick release (lever operated) soda lime canister system
- APL valve
- Built - in oxygen monitor sensor port
- Excellent ergonomics with swivel breathing bag arm
- Single / Dual canister system
- Autoclavable
- Heated Circuit (optional)

## Especialised Anesthesia Monitor with IBP plus ETCO<sub>2</sub>

### Patient Monitoring (Optional)

The AT STAR range offers a wide choice of monitoring systems with availability of optional extended parameters such as AG, BIS, ICG, CO, 4x IBP, EEG, Para - magnetic O<sub>2</sub>



- ECG
- EtCO<sub>2</sub>
- NIBP
- AG
- SpO<sub>2</sub>
- CO
- 2xTEMP
- IBP
- RESP
- BIS

## TECHNICAL SPECIFICATIONS

Storage Space	Two spacious drawers to hold essential anaesthesia kit and accessories
Castors	Large roller bearing anti-static castors with front brakes
Writing Surface	Pull out writing table on top of the drawers
Monitor Shelf	Wide monitor shelf at eye level with securing provision for extra monitor
Cylinder Yokes	Color coded gas specific (pin indexed) yokes with sliding stainless steel clamping bars for easy handling Holding O <sub>2</sub> and N <sub>2</sub> O, 5Ltr water capacity cylinders
Non-return / Pressure Relief Valve	Minimises risk of back flow of gases, blows off when pressure exceeds 125 cmHO
Regulators	Designed for higher efficiency, long service life and reliability for O <sub>2</sub> and NO <sub>2</sub>
Oxygen Flush	Emergency oxygen flush switch at table level to give 35-70 Ltrs/min for emergencies
O <sub>2</sub> Failure warning alarm	Self activated electro - pneumatic audio visual warning device to indicate drop in O <sub>2</sub> pressure below 2.5 Bar
Hypoxic Guard	Mixing device to proportion the NO <sub>2</sub> in such a way that minimum of 25% O <sub>2</sub> is always delivered in the gas mixture
Common Gas Outlet (CGO)	Conveniently located CGO with ISO tapers for 22 & 15mm connections Basal flow with On/off Switch 250 ± 50 ml basal flow of Oxygen as soon machine is switched on (optional)
Pipe Line Gag Inlets	Non-interchangeable screw threaded (NIST) pipeline intets one each for O <sub>2</sub> NO and Air. In case of drop in piped gas pressure the pin index cylinders take over automatically
Pressure Gauges	Large diameter, color coded gauges fitted at convenient angle for better visibility and clarity. One for each of the pin indexed yokes and each corresponding to piped gas inlet
Selectatec Brackets	Twin Selectatec Block
Breathing Circuits	Bains Circuit & Circle Absorber Y- Circuit Provided as standard
Certification	CE and ISO Certification

### PHYSICAL SPECIFICATION

Height	1430 mm
Width	760 mm
Depth	720 mm
Weight	120 kg
Top Shelf Size (mm)	560 mm x 370 mm
Work Surface Size	560 mm x 120 mm
Drawer Size Internal (mm)	2 Drawers - 460 mm x 430 mm
Temperature	Operation : 10 - 40 C° Storage : (-) 20 - 55 C°
Humidity	Operation : <80% Storage : <93%
Power	100-240 VAC, 50/60 Hz, 6.5A (Max.)
Battery Backup on Ventilator	120 minutes

### VENTILATOR TECHNICAL PARAMETERS

Tidal Volume	20 - 1500ml
Frequency	1 - 100bpm
I : E Ratio	4: 1-1:8
Pressure Limit	10 - 65 cm H <sub>2</sub> O
PEEP	OFF, 1.0 - 30 cmH O
Patient Flow Trigger (Fixed)	(-)2kpa - PEEP
Alarm Mute	120s
Compliance	<4ml/100pa
Drive Mode	Pneumatically Driven electronically controlled



**WE PROVIDE BEST QUALITY OF SODA LIME TO OUR CUSTOMERS**