



Ventilator



ATL 2410 SERIES

A. Description of Function

ICU ventilators provide artificial respiratory support to the critical patients in the Intensive Care Units.

B. Operational Requirements

1. Microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for Preterm, New born to adult ventilation.
2. Demonstration of the equipment is a must.
3. Technical Specifications
4. Standard hinged arm holder for holding the circuit
5. Colored Touch LCD/TFT screen, 12 Inch or more
6. Facility to measure and display
7. End tidal CO₂ with capnography integrated in ventilator with display of values and EtCO₂ waveform on the screen.



Corporate & Reg. Office: Analytical House, E67 & 68, Ravi Park, Opp. Sainath Park, Vasna Road, Baroda, Gujarat-390 015, INDIA. Tel.: 0091- 265-2253620, 2252839 Telefax: 0091-265-2254395
Email: info@ais-india.com, info@hplctechnologies.com, info@analyticalgroup.net
Web: www.ais-india.com / www.analyticalgroup.net / www.hplctechnologies.com

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- 8.** 3 waves- Pressure and Time, Volume and Time and Flow and Time.
- 9.** 3 loops- P-V, F-V, P-F with facility of saving of 3 Loops for reference.
- 10.** Graphic display to have automatic scaling facility for waves
- 11.** Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock
- 12.** Trending facility for 24 hours with minimum 10 minutes resolution.
- 13.** Automatic compliance & Leakage compensation for circuit and ET tube
- 14.** Following settings for all age groups.
 - i. Tidal Volume: Lowest 5 ml or less
 - ii. Pressure (insp)
 - iii. Pressure Ramp
 - iv. Respiratory Rate
 - v. SIMV Respiratory Rate
 - vi. CPAP/PEEP
 - vii. Pressure support
 - viii. FIO₂
 - ix. Pause Time
 - x. Pressure and/or Flow Trigger.
- 15.** Monitoring of the following parameters
 - i. Airway Pressure
 - ii. Tidal volume
 - iii. Minute volume
 - iv. Spontaneous Minute Volume
 - v. Total Frequency
 - vi. FIO₂ dynamic
 - vii. Intrinsic PEEP and/or PEEPi Volume
 - viii. Plateau Pressure
 - ix. Resistance (Inspiratory and expiratory) & Compliance (Static and dynamic)
- 16.** Use selector Alarms for all measured & monitored parameters
- 17.** Shallow breathing index and stress index
- 18.** Modes of ventilation
 - i. Volume controlled





- ii. Pressure Controlled
- iii. Pressure Support
- iv. SIMV (Pressure Control and volume control) with pressure support
- v. CPAP/PEEP
- vi. Inverse Ratio Ventilation
- vii. Advanced mode like pressure controlled volume guaranteed/dual modes /PRVC/Auto flow/ ASV/Smartcare/NAVA/ PAV.
- viii. Non Invasive ventilation
- ix. APRV
- x. Apnea / backup ventilation

19. Two autoclavable expiratory blocks including flow sensors will be provided with each ventilator and no routine calibration be required.

20. it have the ability to calculate / Procedure

21. Intrinsic PEEP and/or PEEPi Volume

22. Occlusion Pressure

23. Spontaneous Breathing trial

24. Facility to calculate lower and upper inflection point (OPTIONAL)

25. In built/ Online nebuliser with capability to deliver particle size of < 3 micron.

26. Automatic Patient Detection facilities preferable

27. Technical Specifications for reusable face mask & nasal mask.

i. Reusable face & nasal mask with textured dual flap silicone cushion flap for easy fit.

ii. Removable forehead support and pad to match the angle of patient's forehead.

iii. Stability Selector for easy fit and angle. Ball & Socket headgear attachments.

iv. autoclavable.

28. Battery backup for minimum 1 hour

C. System Configuration Accessories, spares and consumables

1. ICU Ventilator - 01





2. Adult, Neonatal and Paediatric autoclavable silicone breathing circuits – 02 each
3. Reusable Masks (Small, Medium, Large) with each machine. -02 sets each
4. All Accessories for non-invasive ventilation – 2 sets
5. Medical Air Compressor and ventilator be from same principle manufacturer.
6. Trolley, Hinged Arm and other parts Manufacturer/same OEM
7. Permanent flow sensors – 2 nos
8. Proximal flow sensors for neonates- 02 nos.