

MAXPRAN

*Indigenously Designed & Engineered
Advanced Critical Care Ventilator*



Maxpran is a critical care ventilator designed for adult and pediatric respiratory support. It delivers precise parameter control, stable ventilation performance and adaptive support across ICU and acute care settings. The system supports advanced volume and pressure-based ventilation strategies, including synchronized and adaptive modes, together with high-flow oxygen therapy for comprehensive critical care support.



Advanced Ventilation Strategies

Supports volume- and pressure-based modes including SIMV, CPAP and BiPAP



Multi-patient category Support

Adult & Pediatric Patient Inclusion



Compressor-Based Technology

Piped air & o2 externally



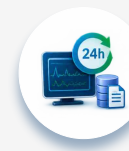
15.6" TFT Display

Large-format, intuitive graphical user-interface



Smart Alarm System

Color-coded priority alarms with event log storage



24-Hour Trends & Event Log

24 - Hour Trend Monitoring | 500 - Event Log Storage



High Flow Oxygen therapy

Enables effective oxygen delivery for acute respiratory support



Adaptive Lung Protection

Automatic compliance and leakage compensation



Modular & Service-Friendly

Modular Design for Easy Service and Scalability



Battery Backup Time

Upto 3 hours



Remote Monitoring

Real- time patient data , Ventilator status accessible anytime, anywhere



Clinical Dashboard

Simplified patient handover with comprehensive ventilation summaries & PDF report

Specification

Respiration Rate (RR)	1-100 BPM
Tidal Volume (VT)	50-2000 mL
O ₂ Concentration (FiO ₂)	21-100%
PEEP	0- 30 cmH ₂ O
Pc above PEEP	3- 80 cmH ₂ O
I:E Ratio	1 : 10 to 4 : 1 (including inverse ratio)
Inspiratory Time (Ti)	0.3 - 6 sec
Maximum Inspiratory Flow rate	180 L/min
Maximum Working Pressure (PIP+PEEP)	0-110 cmH ₂ O
Pressure Support	0 - 40 cmH ₂ O
Trigger sensitivity	Pressure : -10 to -1 cmH ₂ O Flow : 1-2 L/min No Trigger : 0 cmH ₂ O
Apnea Time	6 - 40 sec
SIGH	User - Configurable
Oxygen Therapy	Continuous flow up-to 60 L/min
Modes	Volume- Controlled Modes: VCV/ VC- Assist, VC-SIMV Pressure - Controlled Modes: PCV/ PC- Assist, PC-SIMV Spontaneous Modes: Inv CPAP, CDAP, BIPAP Combined mode : PRVC LPV mode: Lung protective ventilation mode
Monitoring parameters	Ppeak RR Total Pplat E VTi RR Spn PEF LP % Vte MV Spn Peakflow TCexp Mvi PEEP CDyn Rexp Mve Pmean CStat WOB O ₂ % I : E MV_L TV : BW PBW
Display	View: 6 - pre-configured selectable view Autoscalable, Control panel lock Screenshot, Screen Freeze, Screen saver Waveforms: Pressure, Flow & Volume waveforms Loops: Pressure - Volume, Volume- Flow
Storage	Logs & Trends storage upto 3000 logs
Ports	2- USB 1 - Ethernet
Maneuvers	Manual Breath Inspiratory Hold Expiratory Hold Oxygen Boost Oxygen suction
Inlet Gas Pressure (Air/O ₂)	2.8 - 6 bars / 40 - 87 psi
Power Supply	Power Input: 90-260 VAC (Universal Input), 50/60 Hz
Battery Backup Time	upto 3 hours (depending on operating conditions)
Safety & Fail safe Mechanism	Airway pressure safety limits Dual exhaust valves Hardware-enforced safety architecture Continuous technical alarm monitoring
Additional Features	Apnea support ventilation Lung Mechanics visualization High Flow oxygen therapy External Humidifier and Aerosol therapy device Automatic compliance & Leakage compensation circuit