



MTV1000

Portable ICU Ventilator

"Extreme flexibility without compromising places and quality of care with ease"

MTV1000

Fully Featured Ventilator - Multi Purpose, Compact, Portability

MTV1000 Offer innovated convenience Unique technology with high performance Affordable and Reliable Ventilators with Compliance to International Quality Standards



MTV1000 Highlights

- Multi Purpose Ventilator (Home-Care, Ambulance, ER, ICU)
- 7" Color TFT, Touch Screen & Knob
- Built in Ultra Quite Turbine Technology
- 3 Hours Battery Backup as Standard Feature
- Easy to Maintain with Lab Viewer Program
- High pressure Oxygen and Low Flow Oxygen
- Built in Electronic Blender
- NIV /Mask ON/OFF in All Modes

Modes : PACV, PSIMV,VACV, VSIMV, SPONT+PS/CPAP, Auto, PRVC ,Smart Apnea Back up

Optional* : SpO2 / ETCO2, Proximal Pressure Monitoring, Nebulizer
With Additional Battery : Over 6 hours Back up



SPECIFICATIONS*

	7" Color TFT, Touch Screen & Knob
	O2 Blender, Exhalation Drive Line Outlet
Mode	: PACV, PSIMV, VACV, VSIMV, Spont+/CPAP, PRVC, Auto Apnea Back-up ventilation
	Leak Compensation Upto 20lpm
(Optional)	: SpO2, EtCO2
	Proximal Pressure Monitoring.
	Pneumatic Nebulizer with high Pressure O2 Source

Ventilator Data

Predicted Body weight	: 10 to 150kg (Volume)
	1 to 150kg (Pressure)
Tidal Volume	: 50 to 2500 ml
Inspiratory pressure	: 5 to 80 cmH2O (Peep+Pins < 100cmH2O)
Pressure support	: 0 to 60 cmH2O (Peep+PSV < 100cmH2O)
PEEP/CPAP	: 0 to 45 cmH2O
Respiratory rate	: 2 to 60 bpm
Inspiratory time	: 0.3 to 4 sec
Rise Time (in PCV)	: Fast, Medium, Slow
Apnea Time	: 2 to 60 sec
Apnea BackUp Type	: PACV , VACV Mode
Enable inhalation trigger(En-sense)	: 10 to 80% of Inhaled volume
Exhalation trigger Sensitivity(Ex-trig)	: 10 to 80% of peak flow in exhalation.
Inspiratory Pressure limit	: 5 to 80 cmH2O in PRVC
Trigger Type	: Pressure and Flow
Trigger sensitivity : Pressure trigger	OFF, 0.5 to 20 cmH2O
Flow trigger	OFF, 0.5 to 20 lpm
FiO2%	: 21% to 100%
Nebulizer (time)	10min to 180min(3 Hours)
Sound Vol	: 10% to 100%
O2 Sensor	: ON(Enable) , OFF(Disable)
Limb Type	: Dual , Single limb with External Peep Valve System
Altitude Volume Compensated	: -100 to 5000 [m]
Room Air Temperature	: 0 ~ 50
BTPS	: OFF, MANUAL DRY, MANUAL HUMIDI
Mask	: ON / OFF, compensated flow 20lpm Max



Display Data

Parameters	: Setting parameters/Monitored parameters/Alarm status/I:E ratio
Graphic Waveform	: Pressure-Time, Flow-Time, Volume-Time
Loop	: Pressure-volume, Flow-volume, Pressure-flow
Alarm	: Airway pressure , Tidal volume , Minute volume, Respiratory rate Apnea, O2%, Airway leak, Circuit open, Battery indicator O2 supply pressure failure, Ventilator in-operative

Key Indicators

Nebulizer	: 10 to 180 minute
Inspiration hold	: Measures patient's lung compliance and resistance Elasticity, Time constant
Key lock	: Key & LCD Touch Screen Lock
Graph freeze	
Alarm silence	: Mutes audible alarms for 2 minutes
Alarm reset	: Clears visual indicators and messages

Electrical Requirements

Power	: AC : 100-240 VAC, 50/60 Hz (Free voltage) DC : 10.8V 8.8A, Internal battery Provides Max. 180 minutes back up in normal operation External DC Supply 12V ~ 16V
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Physical Characteristics

Weight	: 8 kg (main unit)
Dimensions	: 25 x 15.6 x 37.1 (Width x Depth x Height) cm

Environmental Requirements

Storage - Temperature	: -10 ~ 45 (15 ~ 110)
Relative humidity	: 10 to 85 %
Operation	: 10 to 40 (50 ~ 104)

Pneumatic Requirements

Oxygen inlet supply pressure	: 2.4 to 6.2 bar (35 to 90 psi)
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