

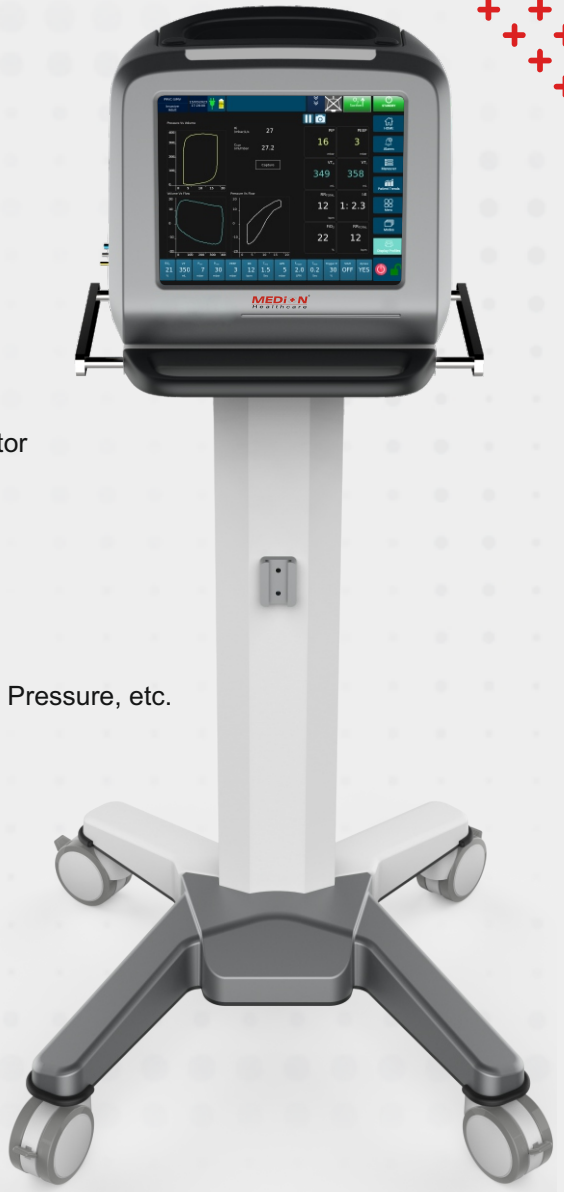


# VENTILATOR

## OPTIMA PLUS

### Features

- Turbine Driven, Compact, Light Weight, Powerful Intensive Care Ventilator
- Adult, Paediatric and Neonatal applications
- Large Screen of 12.1" for ease of viewing
- Tidal Volume from 2mL to 3000 mL
- Numerous Invasive and Non-Invasive modes of ventilation
- HFNC - High Flow Oxygen Therapy for the entire patient range
- Lung Mechanics package: RSBi, Compliance, Intrinsic PEEP, Occlusion Pressure, etc.



RADIOLOGY



MONITORING



ANAESTHESIA



VENTILATION



SURGERY



VETERINARY



MEDICAL  
GASES



MOBILE  
HEALTHCARE

## OPTIMA PLUS - TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION			
Equipment Classification	Class II, Type B			
Application	Adult, Paediatric and Neonatal			
Power Supply	External Source Internal Source			
Gas Supply	Medical Oxygen	280 to 600 kPa		
Ventilator Type	Electronically controlled and Electronically driven ventilator			
Display Screen	12.1 inch Touch Screen colour TFT display			
Ventilation Modes	Invasive Modes (Adult / Paediatric)	VCV (AC), V - SIMV, PCV (AC), P - SIMV, PRVC, PRVC - SIMV, CPAP + PSV, APRV, MMV, BIPHASIC		
	Non-Invasive Modes (Adult / Paediatric)	PCV (AC), P - SIMV, PRVC, PRVC - SIMV, CPAP + PSV, APRV, BIPHASIC, HFNC		
	Invasive Modes (Neonatal)	PCV (AC), P - SIMV, PRVC, PRVC - SIMV, CPAP + PSV, APRV, MMV, BIPHASIC		
	Non-Invasive Modes (Neonatal)	PCV (AC), P - SIMV, PRVC, PRVC - SIMV, nCPAP + PSV, APRV, nIPPV-BIPHASIC, HFNC		
Real Time Graphics	Waveforms	Pressure vs. Time, Flow vs. Time, Volume vs. Time. Plethysmograph (optional), CO2 (optional)		
	Loops	Pressure vs. Volume, Pressure vs. Flow, Volume vs. Flow.		
Ventilation Setting Parameter	Range	Monitoring and Trends		
Tidal Volume	2 - 100 mL (Neonatal) 20 - 1000 mL (Paediatric) 100 - 3000 mL (Adult)	PIP	Flow Peak Insp	
Respiratory Rate	6 - 240 breaths/min	P Plat	Flow Peak Exp	
Inspiratory Time	0.2 - 8 sec (0.2 - 30 sec in APRV)	P Mean	Flow Leak	
Inspiratory Pause	0 - 10 sec	PEEP	RC Insp (Inspiratory Time Constant)	
Expiratory Pause	0 - 30 sec	FIO2	RC Exp (Expiratory Time Constant)	
Pressure Control	1 - 90 cmH2O	Vte	RSBI	
Pressure Support	1 - 90 cmH2O	Vte Spon	C Stat (Static Compliance)	
Positive End Expiratory Pressure	0 - 50 cmH2O	Vti	C Dyn (Dynamic Compliance)	
Inspiration to Expiration Ratio	1:10 - 4:1	Vti Spon	RI (Insp Resistance)	
Oxygen Concentration	21 - 100 %	Comp. VT	P0.1 (Occlusion Pressure)	
Flow Trigger	0.5 - 15 L/min	RR Total	PEEP Int (Intrinsic PEEP)	
Pressure Trigger	'-1 to -20 cmH2O	RR Spon	SpO2 (Optional)	
Apnea	5 - 60 sec	T Insp	PR (Optional)	
Expiratory Cycle	10 - 80 %	T Exp	PI (Perf. Index)	
Nebulizer	1 - 60 min (Volume Compensated)	I:E Ratio	EtCO2 (Optional)	
Flow - HFNC	1 - 65 LPM	PTP (Press Time Prod)	FICO2 (Optional)	
O2 Flush	Off, 40-100%	Mve	aWRR	
O2 Flush Time	1-5 min	Mve Spon	Po2 Inlet	
Leakage Compensation	On/Off/Automatic	Mvi	Leak VT	
Apnea BackUp Ventilation	PC / VC - On / Off	Mvi Spon		
Sigh Breath Function	Breath Count: 25-300 Volume: 10-60% VT Pressure: 1-10 P			
Maneuvers	User Settable Alarms			
P-V Tool:	Slow Inflation	PIP High	Vti High	Apnea
Nebulisation	1-60 min / Off, Volume Compensated	PIP Low	Vti Low	Auto Set Alarm
Inspiratory Hold	0-10 seconds	PEEP High	RR High	
Expiratory Hold	0-30 seconds	PEEP Low	RR Low	
Occlusion Pressure (P0.1)		Mve High	FIO2 High	
Intrinsic PEEP (iPEEP)		Mve Low	FIO2 Low	
Ingress Protection	IP 2X	Standard Accessories		Optional Accessories
Weight and Dimensions	10.7 kg (approx)	AC Power Cord, High Pressure Oxygen Hose with DISS connector, Reusable Dual Limb Patient Circuit with Dual Water Trap for Adult, NIV Mask for Adult, Compliance Test Lung for Adult, Flow Sensor, Oxygen Sensor (inbuilt), Battery (inbuilt)		Mmetal Trolley with Four Castor Wheels and Metal Arm Holder, Servo Controlled Humidifier with Adult / Paediatric / Neonatal Chamber, Heated Wire, Temperature Probe, Reusable Dual Limb Patient Circuit with Water Traop for Paediatric / Neonatal, Disposable Dual Limb Patient Circuit for Adult / Paediatric / Neonatal, NIV Mask for Paediatric / Neonatal, Extra Flow Sensors, Extra Oxygen Sensors.
Dimensions	360 x 340 x 340 mm			
Data Communication Interface	USB, RJ 45, HDMI			
Power Supply	110-240 VAC, 50-60 Hz			
Power Consumption	60 VA Typical, 160 VA Max			
Battery Back Up Time	3 Hours			
Air Source	Internal Turbine			
Oxygen	3-6 Bar, 43-87 PSI			
Oxygen Input Purity	90-100%			
Trends and Logs	Trend Date: 96 Hours, Event: 1000			
Snapshot	100 Nos. - Exportable			

\*Specifications, design and / or accessories listed in the catalogue subject to change without prior notice

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