



**ALLIED**  
MEDICAL

# Meditec Vista

## Intensive Care Ventilator



Intuitive  
user  
interface

Universal  
Ventilator

Wide display  
&  
Control Unit

Economical  
&  
Value Driven

Versatile &  
Adaptive  
Solution

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Allied Meditec Vista is a microprocessor controlled ventilator with an intelligent and universal effective solution for neonatal to adult patients. Intuitive and simple user interface with quick operational readiness with an automatic device check provides confidence in use and reduces training time. Wide range of ventilation mode makes it suitable for various clinical requirement in Intensive care units.

### Ease of Use

Simple user interface and effortless operation makes Meditec Vista to be intuitive and require minimum amount of training for the medical and nursing staff.



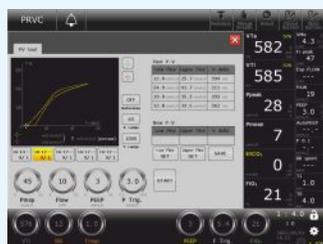
Quick Start Interface

**Standard Ventilation Modes**

PACV, VACV, PSIMV, VSIMV, SPONT,  
PRVC, AwPRV, Bi-level,  
Apnea Back-up ventilation

**Advanced Ventilation Modes**

Standard - AutoVent, O<sub>2</sub>Stream  
Optional - TCPL-AC, TCPL-SIMV, CPR,  
PRVC-SIMV, HFV (SHFV, DHFV) HFNC



Protective Ventilation tool (P-V)



Waveform Display



Monitoring Parameters Window



Big Numeric Display

### Invasive & Non-Invasive Ventilation

Compatible for intubated and non-intubated patient's ventilation.



Non-Invasive Ventilation



Invasive Ventilation

### Predicted Body Weight (PBW)

Predicted body weight function is the most simple way of starting and providing ventilation herein all the parameters of the patients are set automatically according to his/her body weight.

8ml/ kg is the default PBW function which is pre-set in the ventilator, this value is user configurable as per the requirement.

### Integrated Air Compressor Trolley (Optional)

Air outlet/inlet Fitting	Quick touch coupler
Operating Environment	Temp. Up to 32°C, Humidity ≤ 85%
Power Requirement	230v AC ± 10%, 50/60 Hz, 550W
Alarms	Low Pressure and High Temperature
Dryer	Electronic
Water Removal System	Automatic
Noise Level	<50dB
Dimensions (L×W×H)	460mm x 525mm x 810mm
Weight	45 Kgs



## CPR Ventilation (Cardiopulmonary Resuscitation)

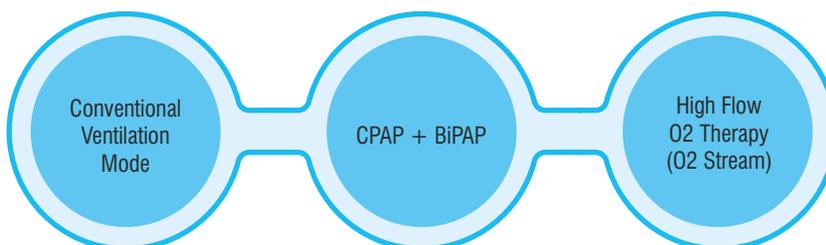
Meditec Vista has dedicated CPR mode that provides resuscitation and chest compression assistance (beep sound) to the patient under cardiac arrest.

## Closed Suction Support

During Suction the negative pressure can cause auto-triggering which is very harmful for the patient.

Meditec Vista is equipped with closed suction support system, on its activation the existing ventilation mode is suspended and the ventilator shifts on to CPAP mode with SET PEEP + 3 cmH<sub>2</sub>O of pressure support at the same time O<sub>2</sub> boost (100% O<sub>2</sub>) is given to the patient.

## Efficient Weaning



## Monitoring Parameter for Ventilator Weaning

P 0.1 Negative airway pressure generated during the first 100 ms of inspiration, it determines the neuromuscular activation of the respiratory system which predicts the weaning of the patient.

## Two Types of Nebulization

Meditec Vista offers Micro pump Nebulizer & Pneumatic Nebulizer.

**Standard** : Pneumatic nebulizer

**Optional** : Ultrasonic (Micro-pump) nebulizer

## O<sub>2</sub> Stream

High Flow Nasal Cannula Therapy

Meditec Vista provides non-invasive respiratory therapy to improve lung oxygenation by supplying high flow, heated and humidified oxygen to the patient through nose.

This facilitates in increase in the functional residual capacity by increase in PEEP, reduce the W.O.B., optimize the nasal and the mucosa of the upper respiratory track and reduce the residual exhalation gas of the anatomical dead space.

### Feature of Nasal High Flow Oxygen Therapy

- Efficient Oxygenation
- Washout of nasopharyngeal dead space (CO<sub>2</sub> Ventilation)
- Increase Functional Residual Capacity
- Reduce Work of Breathing
- Reduce Energy Cost of Gas Conditioning

## Central Monitoring System (Optional)

- Dual LCD screen : 32 bedsides patient monitoring system
- Single LCD screen : 16 bedsides monitoring display
- 10 days graphic trend for each patient monitor
- Display 12 waveforms of patient monitoring for each patient monitor
- Display 3 waveforms of a ventilator display
- Available wireless LAN or Cable wired network

## Easy to Manage Ventilator

- Easy to maintain
- Efficient management system which tells about the expected replacement time of each and every assembly
- Reminder alarm for calibration and Service of the equipment

# Technical Specifications

## Display Data

Display	15" TFT colored touch screen with navigation knob
Display Motion	Adjustable vertical tilt
Control Panel Lock	Yes
Parameters	Setting parameters, patient status parameters, Alarm status, I:E ratio
Graphic Waveform	Pressure-Time, Flow-Time, Volume-Time
Trend	Up to 72 hrs. - VE/min, Pmean, Ppeak, PEEP, Vte, RR, CL, RA. Optional - SpO <sub>2</sub> , PR, iCO <sub>2</sub> , EtCO <sub>2</sub>
Loops	Pressure-Volume, Flow-Volume, Pressure-Flow
Measuring Data	P0.1 measurement, Exp.Flow, RSBI, CL, RA, WOBV, WOBP
System Alarm	O <sub>2</sub> / Air supply pressure Fail, Obstructed tube, Circuit open, Ventilator in-operation, Low Battery, PEEP Low & PEEP High
EVENT	1,000 event log : Alarms & Settings
Optional Parameters	SpO <sub>2</sub> , PR / EtCO <sub>2</sub> , iCO <sub>2</sub>

## Setup Function

BTPS	OFF / Auto Humid / Auto Dry
Proximal Flow / Pressure Sensor	All OFF / RON, F.OFF / RON, F.ON
Neb Time	10 – 180 min
BWF	5 mL/kg – 15 mL/kg
Tube Compensation	ON / OFF
O <sub>2</sub> Sensor Disable	ON / OFF
Sound volume	10 – 100 %

## Alarm Settings

High Tidal Volume (Vte)	5 – 2500 mL / OFF
Low Tidal Volume (Vte)	0 – 2500 mL
High Min Volume (Vte, min)	0.1 – 50 LPM
Low Min Volume (Vte, min)	0.0 – 49.9 LPM
High Respiration Rate	3 – 180 BPM
Low Respiration Rate	2 – 179 BPM
High Peak Airway Pressure	1 – 120 cmH <sub>2</sub> O
Low Peak Airway Pressure	0 – 119 cmH <sub>2</sub> O
High O <sub>2</sub> %	19 – 100% / OFF
Low O <sub>2</sub> %	18 – 100%
Airway Leak	50 – 500 mL / OFF
Apnea	2 – 60 sec

## Lung Mechanics

PV Tool	P Limit 5 – 60 cmH <sub>2</sub> O, Time
Inspiration hold	Measures patient's lung compliance and resistance, Elasticity, Time constant
Expiration hold	Measures auto-PEEP

## Electrical

Power Source (AC)	100 – 240 VAC, 1 A, 50 / 60 Hz
Internal Battery	PB-Acid 12 V
Operating Time	180 min Max
Power Consumption	0.3kw

## Communication

RS232 (COM1)	115200 BPS for CMS
LAN	100 MHz for CMS or EMR (HL7 support) USB Port

## Ventilator Data

Body Weight Range	1 – 150 kg
Tidal Volume	2 – 2500 mL
Inspiratory Pressure	0 – 99 cmH <sub>2</sub> O
Pressure Support	0 – 99 cmH <sub>2</sub> O, above Peep Max 99 cmH <sub>2</sub> O
Respiratory Rate	0 – 150 BPM
Inspiratory Flow Rate	Up to 180 LPM
Ventilator Modes	PACV, PSIMV, VACV, VSIMV, Spont, Apnea Back-up Ventilation, O <sub>2</sub> Stream, PRVC, Bi-Level, AwPRV, Auto Vent
I:E Ratio	4:1 – 1:20
Inspiratory Time	0.1 – 9.9 sec
Pause Time	0 – 2.0 sec
PEEP / CPAP	0 – 60 cmH <sub>2</sub> O
Enable Ins. Trigger (En-sens)	10 – 80% of Inhaled volume
Exh. Trigger Sensitivity (Ex-trig)	Off, 5–50
F-end (Flow end)	25 – 100% of peak flow
Trigger Sensitivity	Pressure : 0.1 – 20 cmH <sub>2</sub> O Flow : 0.1 – 20 LPM
FiO <sub>2</sub> %	21 – 100%
Sigh	OFF / Delivers one sigh breath every 30, 60, 90, 120 breaths Sigh volume = Set tidal volume x 1.5
Mask (Leak Compensation)	OFF / ON (up to 25 LPM)
Rising Time (Trise) {PS}	0.1 – 2.0 sec
Rising Time, PSV {PSV}	0.1 – 0.5 sec
Flow Limit {PSV}	10 – 60 LPM / OFF

## Optionals

Ventilation Mode	TCPL-AC, TCPL-SIMV, CPR, PRVC-SIMV, HFV (SHFV, DHFV)
Lung Mechanics	PV-TOOL, Paux (Esophageal & Tracheal Pressure)
Accessory	Proximal Sensor (Pressure/Flow), Nasal Cannula for O <sub>2</sub> Stream
Vital Sign Functions	SpO <sub>2</sub> , EtCO <sub>2</sub>
Cart	Mobile Cart for Vista
Humidifier	Humidifier with Adult chamber & accessories

## Environmental

Storage Temp	(-)20 – 70°C
Relative Humidity	0 – 95%, non-condensing
Operating Temp	10 – 40°C
Relative Humidity	10 – 90%, non-condensing

## Physical

Overall	W499.4 x D599.1 x H1423 mm
Main Unit	W326 x D414.2 X H388 mm
Display Monitor	W400 x D48 x H276 mm
Mobile Cart (optional)	W499.4 x D599.1 x H725 mm
Unit Net Weight	28kg (without compressor and mobile cart)
Compressor Weight	45kg
Mobile Cart Weight	15kg (approx.)



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