ALLIED MEDICAL

Meditec Vista

Intensive Care Ventilator

- Quick Start
- Neonate to Adult
- Large Screen
- Optimal Synchroni-zation
- Easy Operation

CE 0297

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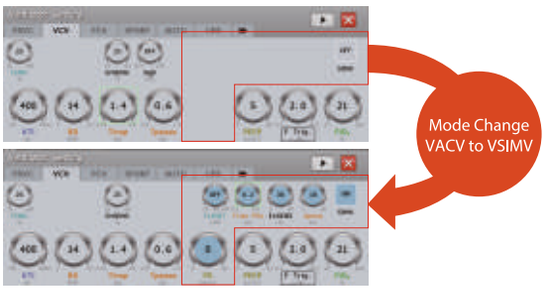
Allied Meditec Vista is a microprocessor controlled ventilator with an intelligent and universal effective solution for neonatal to adult patients. Intuitive and simple user interface with quick operational readiness with an automatic device check provides confidence in use and reduces training time. 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.



Standard Ventilation Modes

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

Advanced Ventilation Modes

Standard - AutoVent, O_2Stream
Optional - TCPL-AC, TCPL-SIMV, CPR,
PRVC-SIMV, HFV (SHFV, DHFV) HFNC

Reduce Ventilator Induced Lung Injury

Lung Protection Tool

High Frequency Ventilation for Rescue use

Esophageal Pressure

Tracheal Pressure

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
Dimensions (L×W×H)	460mm x 525mm x 810mm
Weight	45 Kgs
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

CPR Ventilation (Cardiopulmonary Resuscitation)

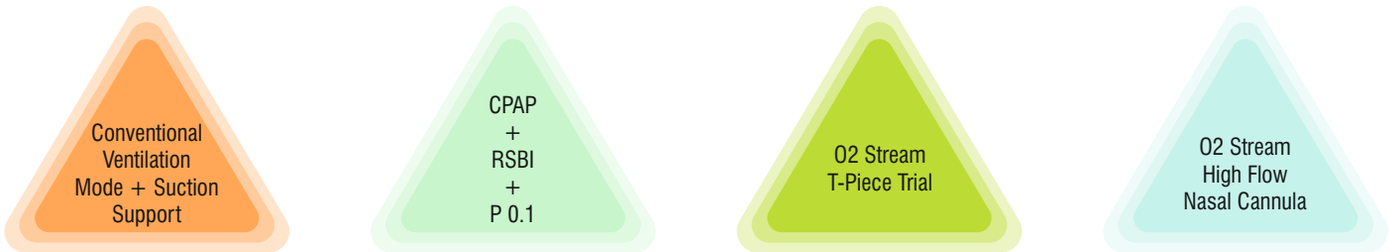
Meditec Vista has dedicated CPR mode that provides resuscitation and chest compression assistance (beep sound) to the patient under cardiac arrest.

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_2O of pressure support at the same time O_2 boost (100% O_2) is given to the patient.

Successful Weaning With the presence of following modes



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_2 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_2 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_2, PR, iCO_2, $EtCO_2$
Loops	Pressure-Volume, Flow-Volume, Pressure-Flow
Measuring Data	P0.1 measurement, Exp.Flow, RSBI, CL, RA, WOBV, WOBP
System Alarm	O_2 / 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_2, PR / $EtCO_2$, iCO_2

Setup Function

BTPS	OFF / Auto Humid / Auto Dry
Proximal Flow / Pressure	All OFF / P.ON, F.OFF / P.ON, F.ON
Sensor	10 – 180 min
Neb Time	5 mL/kg – 15 mL/kg
BWF	ON / OFF
Tube Compensation	ON / OFF
O_2 Sensor Disable	10 – 100 %
Sound volume	

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_2O
Low Peak Airway Pressure	0 – 119 cmH_2O
High O_2 %	19 – 100% / OFF
Low O_2 %	18 – 100%
Airway Leak	50 – 500 mL / OFF
Apnea	2 – 60 sec

Lung Mechanics

PV Tool	P Limit 5 – 60 cmH_2O, 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_2O
Pressure Support	0 – 99 cmH_2O, above Peep Max 99 cmH_2O
Respiratory Rate	0 – 150 BPM
Inspiratory Flow Rate	Up to 180 LPM
Ventilator Modes	PACV, PSIMV, VACV, VSIMV, Spont, Apnea Back-up Ventilation, O_2 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_2O
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_2O
	Flow : 0.1 – 20 LPM
FiO_2 %	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_2Stream
Vital Sign Functions	SpO_2, $EtCO_2$
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	50kg (without compressor and mobile cart)
Compressor Weight	45kg
Mobile Cart Weight	25kg (approx.)

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