ALLIED MEDICAL

Jupiter Plus

Anaesthesia Workstation

Delivering safe anaesthesia solutions since 1982

Allied Medical Limited has developed the Jupiter Plus Anaesthesia Workstation keeping in mind doctor's need of compact and user friendly design of Anaesthesia delivery system that helps to deliver attentive care to the patient rather than on the equipment. Jupiter Plus supports low-flow and minimal and extensive ventilation capabilities all packed in slim and ergonomic design.

Features

- Medical grade ABS plastic framework
- Deep spacious drawer units
- Three gas machine with provision for O_2, N_2O and Air
- Wide monitoring shelf at eye level
- Convenient common gas outlet
- Hook for breathing circuit
- Open-Close circuit switch control
- Convenient mounting of circle absorber
- Twin Selectatec mountings for 2 Agent Specific Vaporisers
- Pin Indexed yokes Two for O_2 and Two for N_2O
- Anaesthetic gas scavenging port
- Large, roller bearing, anti-static castors with front wheel brakes
- Electrical outlets for connecting monitors
- Central pipeline connections with gas specific NIST connectors
- Auxiliary oxygen therapy flowmeter
- Work surface lighting
- Automatic changeover from pipeline to cylinder

Twin Selectatec
Manifold with Vaporiser
Surface Light

Spacious and
Deep Drawers

Patient Safety Features

- Integrated Hypoxic Guard
- Emergency O_2 flush
- Alarm to provide audible indication of O_2 supply pressure failure
- N_2O shut off in the event of O_2 failure
- Colour coded internal pipework
- Pressure relief valve

Meditec Pisces

Vaporiser

- Calibration range : 0 to 5%, 0 to 6% and 0 to 8% set by using a Laser Refractometer
- Easy to turn dials with safety lock to prevent accidental turn-on
- Agent specific vaporisers designed to provide constant output set by user
- Interlock mechanism to lock in series with other vaporisers
- Individually calibrated for specific anesthetic drug
- Agent Capacity: 250 ± 25ml
- Available in Screw fill, Quik Fil™ and Meditec Fill™
- Available for Halothane, Sevoflurane and Isoflurane

*Quik Fil™ is a registered trademark of Abbott Laboratories.

Integrated Ventilator

Allied Jupiter Plus has an in-built ventilator incorporating simplicity with all the advantages of a modern ventilator. It is microprocessor based sophisticated Anaesthesia Ventilator that provides optimum patient care in a quick to learn conventional design offering easy handling, comprehensive patient care with enhanced performance, efficiency and safety. With option of upgrading to pressure control mode it is suitable for ventilation of neonatal patients.

Anaesthesia Ventilator is an electronic time cycled compact ventilator with integrated patient alarms for safety.


Integrated Ventilator

- High-Luminance 7 inches TFT colour display
- Pneumatically driven electronically controlled combines sophistication and ease of use
- Adult to pediatric mode
- Ventilation Modes : VCV, PCV, SIMV, Manual
- Electronic PEEP - Settable, 3–30 cmH_2O
- Integrated Pressure, Volume and Oxygen monitoring
- Adjustable Inspiratory time, Expiratory time
- Can be used in closed circuit anaesthesia and also to drive a bains circuit
- Easy to clean detachable ascending bellows unit
- Self test, leak test and compliance test
- Fresh gas flow compensation
- Waveforms : F-T, V-T, P-T & Spirometry Loops: F-V, V-P, P-F (Displays 2 waveforms & 2 loops, simultaneously)
- Alarms
  - Low supply gas pressure
  - Power failure
  - Battery low/ discharged
  - VT, MV High & Low
  - Disconnection
  - Airway Pressure High & Low
  - Apnea
  - Sustained pressure- Apnea
  - Sustained pressure

Integrated Circle System Absorber

- Bypass switch - Allows canister change during ventilation
- Bag ventilator switch - Easy changeover from ventilator to bag
- Automatic ventilator switching from absorber switch
- Moisture drain valve, Quick release sodalime canister system
- APL valve range 0–70 cmH_2O
- Ergonomically designed swivel breathing bag arm
- Double canister system with two canister of approx. 1kg each
- Autoclavable parts
- Airway pressure manometer


Double Canister
Circle Absorber System

Recommended for use
with Meditec ME-SORB™
CO_2 absorbent.

Patient Monitoring (Optional)

The Jupiter Plus range offers a wide choice of Monitoring Systems with availability of optional extended parameters such as AGM, BIS, ICG, CO, 4 x IBP, EEG, Para-magnetic O_2, NMT

ECG | NIBP | SpO_2 | 2xTEMP | RESP | $EtCO_2$ | AGM | CO | IBP | BIS | NMT | ICG | EEG

TECHNICAL SPECIFICATIONS	
Storage Space	Two spacious drawers for keeping essential anaesthesia kit/ accessories
Castors & Foot Rest	Large roller bearing anti-static castors with front brakes & foot rest
Writing Surface	Wide table top for writing
Monitor Shelf	Wide Monitor shelf at eye level
Cylinder Yokes	Color coded gas specific (pin indexed) yokes with sliding stainless steel clamping bars for easy handling. Holding Two O_2 and Two N_2O 5 Ltr. water capacity cylinders
Non-return/ Pressure Relief Valve	Minimizes risk of back flow of gases, blows off when pressure exceeds 125 CmH_2O
Regulators	Designed for higher efficiency, long service life and reliability for O_2 and N_2O
O_2 Flush	Emergency oxygen flush switch at table level to give 30-75 Ltrs/min for emergencies
O_2 Failure Warning Alarm	Self activated electro-pneumatic audio visual warning device to indicate drop in O_2 pressure below 2.5 Bar
Nitro Lock	It enables N_2O to cut off if Oxygen fails
Hypoxic Guard	Mixing device to proportion the N_2O in such a way that minimum of 25% O_2 is always present in the breathing gas mixture
Common Gas Outlet (CGO)	Conveniently located CGO with ISO tapers for 22 & 15mm connections
Pipeline Gas Inlets	Non-interchangeable screw threaded (NIST) pipeline inlets. In case of drop in piped gas pressure the pin index cylinders take over automatically
Pressure Gauges	Larges diameter, color coded gauges fitted at convenient angle for better visibility and clarity. One for each of the pin indexed yokes and one each corresponding to piped gas inlet
Selectatec Brackets	Twin Selectatec Block
Breathing Circuits	Bains and Closed circuit provided as standard

CASCADE FLOWMETER	
Oxygen Low Flow	0.05–1.0 lpm
Oxygen High Flow	1–10 lpm
N_2O Low Flow	0.05–1.0 lpm
N_2O High Flow	1–12 lpm
Air	0.2–15 lpm

PHYSICAL SPECIFICATION	
Dimensions (mm)	1465 (H) x 720 (W) x 660 (D)
Work Surface (mm)	815 (H) X 540 (W) x 250 (D)
Top Shelf (mm)	625 x 320
Drawer (mm)	490 x 320
Weight	120 kg
Power Consumption	110W

VENTILATOR TECHNICAL SPECIFICATIONS			
Modes	VCV, PCV, SIMV, Manual	Inspiratory Pause	0–50% of Ti
Electronic PEEP	Settable, 3–30cmH_2O	Adjustable Pressure Relief	0–70 cmH_2O
Waveforms	Pressure, Flow and Volume	Supply Gas Low	Supply gas (driving gas) has pressure 300 kPa or below
Loops	Pressure vs Volume, Flow vs Volume	Respiratory Manometer Pressure Gauge	(-)20–(+)100 cmH_2O
Compensation	Fresh Gas and Compliance	Internal Battery Backup	120 mins
Tidal Volume	20ml–1500ml	Power Supply	100–250 Volts
Frequency	1–100 bpm	Pressure High	10–70 cmH_2O
I:E Ratio	1:8–4:1	Pressure Low	10–30 cm H_2O
Driving Gas	Oxygen (Standard)/ Air (Optional)	Mains Fail	Indicates main power failure
Supply Pressure	45–100 PSI (310–700 kPa)	Low Battery	Less than 15 minutes backup
Minute Volume	0–20 lpm		

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Meditec 1700

Ventilator

Ideal for use in an ICU, Intra-Hospital transport, Air and Ground transport. Simplicity, In-built air supply, versatility and affordable cost

The Meditec 1700 is designed to work in a highly versatile environment, whether you need Invasive or Non-Invasive ventilation, it delivers both. Meditec 1700 is micro-processor controlled design with wide range of Ventilation modes to suit individual preferences.

Features

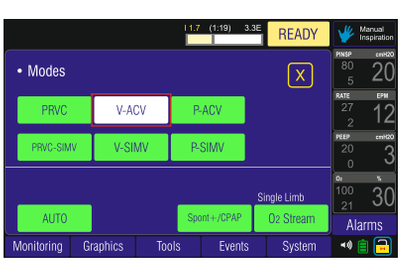
- Suitable for adult and paediatric patients
- Built-in turbine technology
- Pressure & Flow waveforms with Trends Facility
- FiO_2 Measurement
- Suitable with both dual as well as single limb breathing circuits
- Patient History storage capability
- Automatic Parameters adjustment of patient according to Height & Weight
- Provision for 100% oxygen for a period of 2 mins. before disconnecting for suctioning
- Inspiration hold: Measures patient's lung compliance and resistance, Elasticity, Time constant
- Key lock: Key & LCD Radiogram Touch Screen Lock
- Waveform freeze: Freezes the waveform with scrolling facility
- Alarm silence: Mutes audible alarms for 2 mins.
- Alarm reset: Clears visual indicators and messages
- Easily detachable from trolley and moves with patients
- Mobile stand with quick-release
- APNEA backup with option PACV, VACV with pressure limit
- Shock Resistant (Drop Test certified)
- Touch screen as well as knob operated
- Altitude compensation
- 2000 Events storage, alarms and settings
- High pressure O_2 supply inlet - To connect to wall outlet, O_2 cylinder
- Low flow O_2 supply inlet - To connect to O_2 concentrator
- BTPS reduces Tidal Volume error

12.1" TFT Extended Graphical Display Unit (Optional)

Monitoring Parameters	
V_E Tidal	P_{peak}
V_E Min	P_{mean}
Resp	V_i Tidal
P_{Pause}	F_{peak}
PEEP	O_2%

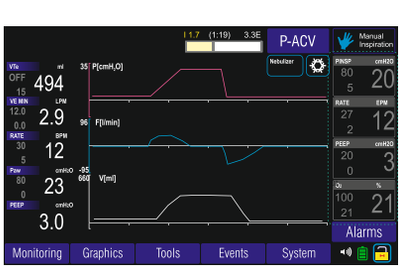
Optional Parameters		
PR	$EtCO_2$	Resp
SpO_2	iCO_2	

Waveform		
P-T	F-T	V-T

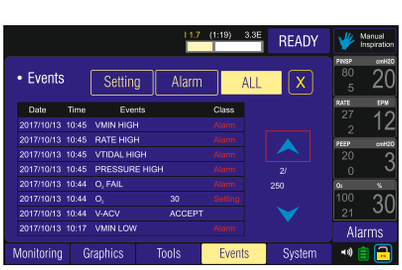


Modes Screen

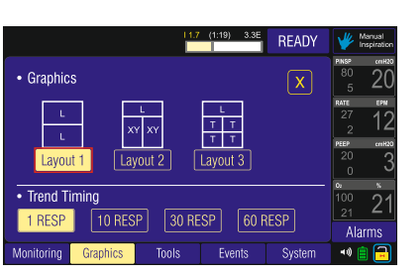
Monitoring Parameters



Waveforms



Event Log



Graphics - Wavegraph, Trend & Loop

Military tough, drop test certified.

Compliance with wide variety of aviation standards (RTCA DO160F, EN 60601-1-1-2 & EN 13718-1) to ensure a smooth air worthiness approval process for medical air transport requirements.

250+ Indian Defence establishments are using more than 1000 Meditec 1700 ventilators

In the Fight Against COVID-19

Allied Medical successfully installed more than 2000 ventilators across India in fight against Covid-19 including supplies made under PMCARES.

Non-Invasive Ventilation

Invasive Ventilation

Meditec 1700 comes in a full range of clinical requirements with invasive ventilation, automated ventilation and non-invasive mask ventilation.

Performance Data

- Valve response time ≤5 ms
- Control principle Time cycled, volume constant, pressure-controlled
- Safety relief valve 100 mbar/cmH_2O
- Automatic Leakage compensation
- Breathing hose & Dynamic compliance compensation

Operating Data

- Power consumption Approx. 105W
- O_2 supply pressure range : 2.4 - 6.9 bar / 35-90 psig

Weaning

- O_2 Streaming assisted therapy for weaning patients (HFNC)
- Ex-sens & En-sens, W.O.B. of patient

Technical Specifications

Display Screen	8” Screen with Touch Control & Rotary Knob
Parameters	Set Parameters / Measured Parameters / Alarm Status / I:E Ratio
Waveforms	Pressure-Time, Flow-Time, Volume-Time
Loops	Pressure-Volume, Flow-Volume, Pressure-Flow
Modes	PACV, PSIMV, VACV, VSIMV, AUTO (Emergency Quick Start), Spont+CPAP, PRVC, ACPAP+, PRVC+SIMV, O_2 Stream
Tidal Volume	50–2500 ml, PCV Mode TV range : 10–2500ml
Pressure Support	0–60 cmH_2O (PEEP+PSV < 100cmH_2O)
PEEP/CPAP	0–45 cmH_2O
Respiratory Rate	2–120 bpm
SIGH	With Interval 30, 60, 90, 120 /breath
Inspiratory Pressure	5–80 cmH_2O (PEEP+Pins <100cmH_2O)
Inspiratory Pressure Limit	5–80 cmH_2O
Inspiratory Flow	(-)6–240 L/min (Adult), (-)6–30 L/min (Paediatric and Neonatal)
Inspiratory Time	0.1–9.9 sec
I:E Ratio	4.7:1–1:149
Rise Time (in PCV)	Fast, Medium, Slow (0–2 sec)
Apnea Time	2–60 sec
Apnea Backup Type	PACV, VACV Mode, backup with insp. pressure, Tv
Trend	72 hrs
Inhalation Enable Sensitivity (En-sens)	10–80%
Exhalation Enable Sensitivity (Ex-sens)	10–80%
Trigger Sensitivity	Pressure Trigger : OFF, (-)0.5 to (-)20 cmH_2O Flow Trigger : OFF, 0.5 to 20 lpm
FiO_2%	21%–100%
Suitable Body Weight	Volume Mode: 10–150 kg (Paed., Adults), Pressure Mode: 1–150 kg (Neo., Paed., Adults)
Altitude Volume Compensated	(-)328 ft.–21522 ft. {(-)100 mtr.–6560 mtr.}
Alarms	Airway Pressure / Tidal Volume / Minute Volume / Respiratory Rate / Apnea / O_2% / Airway Leak / Circuit Open / Battery Indicator / O_2 Supply Pressure Failure / Ventilator In-operative/ Air Obstruction
Power	AC: 100–240V 50–60 Hz, DC : 10.8V, 8.8A, Power Consumption : 105W
Power Backup	6 Hrs. internal battery backup

Physical Specifications

Dimensions (W x D x H)	250mm x 156mm x 371mm
Weight	7.5 kgs. (main unit with battery)

Environmental Requirements

Storage Temperature	(-)20°C–50°C
Relative Humidity	10–90%
Operation Temperature	0°C–50°C

Optionals

12.1" TFT Extended Graphical Display Unit	SpO_2 Monitoring
Nebulizer	$EtCO_2$ Monitoring
Ultrasonic Nebulizer	Extended Battery
Humidifier	Carry Bag
Humidifier with heating	Ambulance Mount
ABIPAP+/ APRV Mode	Stand

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ALLIED MEDICAL

Meditec Vista

Intensive Care Ventilator

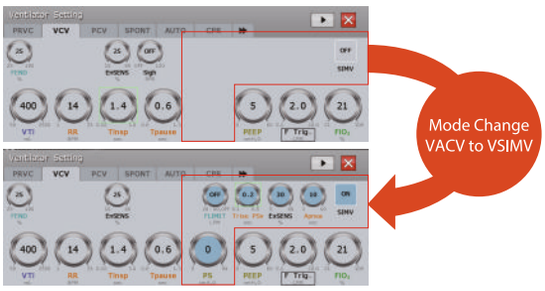
- Quick Start
- Neonate to Adult
- Large Screen
- Optimal Synchroni-zation
- Easy Operation

ALLIED MEDICAL | MEDITEC ENGLAND™

Meditec Vista ventilator is 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

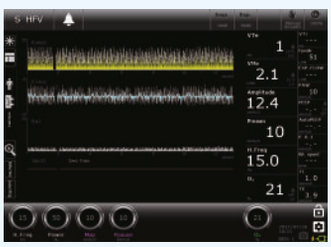
PACV, VACV, PSIMV, VSIMV, SPONT,
PRVC, AwPRV, Bi-level,
Apnea Back-up ventilation

Advanced Ventilation Modes

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

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

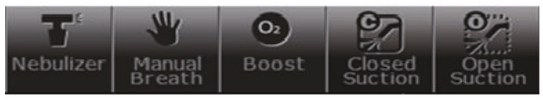
CPR Ventilation (Cardiopulmonary Resuscitation)

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

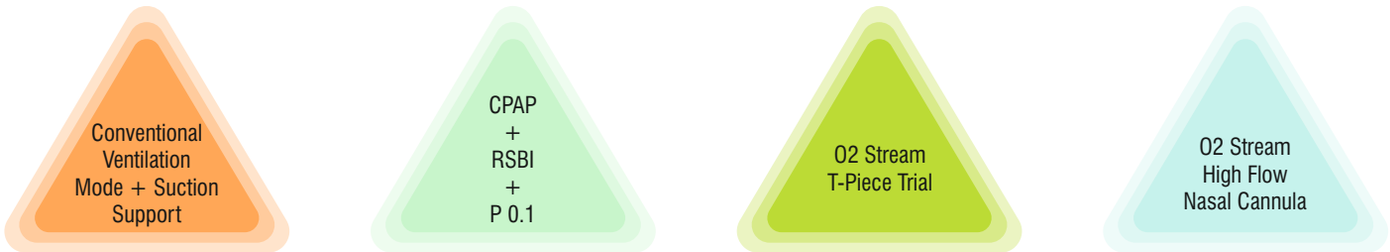
Closed Suction Support

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

Option : 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
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
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 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_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)

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

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	90kg
Mobile Cart Weight	25kg (approx.)

Manufactured in India by

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