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 - 2000 Events storage, alarms and settings
- 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
- Waveform freeze: Freezes the waveform with scrolling facility

- Built-in Pneumatic Nebulizer
- Alarm silence: Mutes audible alarms for 2 mins.
- Alarm reset: Clears visual indicators and messages
- Key lock: Key & LCD Radiogram Touch Screen Lock
- 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
- 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%

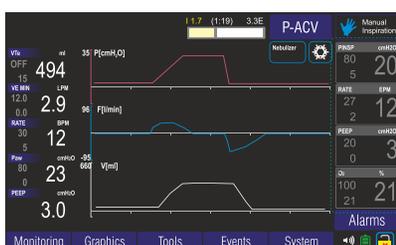| Optional Parameters		
PR	$EtCO_2$	Resp
SpO_2	iCO_2	

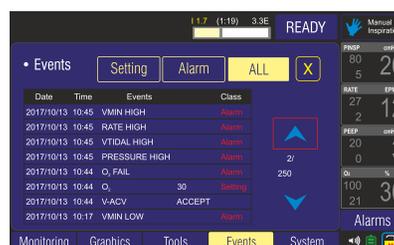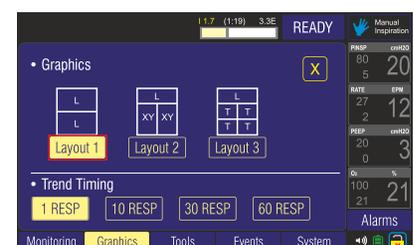| Waveform		
P-T	F-T	V-T

Modes Screen
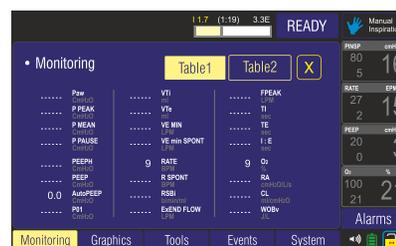
Monitoring Parameters

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 5000 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$_2$O
- 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/CPAP	0–50 cmH_2O
Respiratory Rate	2–120 bpm
SIGH	With Interval 30, 60, 90, 120 /breath
Inspiratory Pressure	5–80 cmH_2O
Inspiratory Pressure Limit	5–80 cmH_2O
Inspiratory Flow	(-)6–240 L/min
Inspiratory Time	0.1–9.9 sec
I:E Ratio	4.7:1–1:149
Nebulizer Setting Time Range	10–180 min.
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	EtCO$_2$ Monitoring
Ultrasonic Nebulizer	Extended Battery
Humidifier	Carry Bag
ABIPAP+/ APRV Mode	Ambulance Mount
SpO$_2$ Monitoring	Stand