

Cvent-1000T

ICU Ventilation and Respiratory Monitoring

Excellent weaning performance

One intelligent ventilator for Adult-Paediatric



Technology makes ventilation intelligent - safe to use

Cvent-1000T advance intensive care ventilator integrated with state of art SWISS MADE CMOSens flow sensor technology for fastest sensing & accurate flow delivery to Adult - Paediatric (Tidal volume from 10ml to 2000ml)



10.4" Color TFT Screen

Simultaneously display of Three Waveforms & Two Loops.

Three Level color coded audio-visual alarms.

Easy user interface and Multi level mechanism for patient safety with intelligent high alert alarming system, hence increase safety of operation.

Easy Access to the utilities

Mute, Waveform Freeze, 100% O2 flushing, Nebulizer, Manual Breath, Inspiratory Hold
Key pad/Touch Screen Lock facility for protection.

Exhalation Valve technology

Anti condensation heated exhalation system with auto sterilization can (Make ICU infection free)
Auto-Cleavable at 134 degree can use safely and prevent cross infection. Low maintenance cost, Easily removable, trouble free Active Exhalation Valve technology. Maintenance free, auto self testing & need no routine flow sensor calibration.

Medical air compressor (Model AF-12)*

Ensures a constant, compressed air supply in case main central line fail. Unique anti vibration design assures low noise & quiet operation with sound level <56db. Multi level air filtering (5µm), cooling & water removal with auto drain system, gives clean, dry & oil free medical air supply.

Casters Wheels

Four caster wheels with front locking brakes.

Cvent-1000T ventilator system, customize the treatment for patient with advance modes & decision supporting tools and monitoring make professional's comfortable

Less is more

Automatic system check



Pre-Test

- Auto check up of the machine
- Checks various parts automatically to ensure proper functioning



Synchronization

- Time Trigger (no spontaneous breathing)
- Pressure Trigger (spontaneous breathing)
- Flow Trigger



Easy use Interface

- Simple to operate
- No manual intervention required during system check
- Graphic display of error correction



Adult-Pediatric Ventilation

Tidal volume from 10ml to 2000ml (Pediatric-Adult) Pressure control mode with tidal volume security/guarantee provide the advantage of volume control ventilation both invasive & non invasive ventilation



Modes

VCV, SIMV-VC, PCV, SIMV-PC, PSV, CPAP+Apnea Backup, APRV, PRVC, SIMV-PRVC Non-Invasive: BiPAP, BiPAP-S, BiPAP-ST, HFNC/O2 Therapy



Waveforms

Simultaneously display for three waveforms.



Respiratory Loops

Choice of up to 2 loops display.



PRVC (Pressure Regulated Volume Control)

- Advanced Dual Modes Make Cvent More Comfortable to patient Wean Case to Case
- Deliver Preset Tidal Volume at Same Rate with the Lowest Possible Pressure



BIPAP S/T (Non-Invasive with Synchrony Feature)

More Unique Benefits , High Performance Non Invasive Ventilation. Also Set Trigger, Rate with Additional Parameters



Utilities

- Inspiratory Hold
- 100% O2 flushing
- Manual Breath
- SIGH Breath (Configurable)
- Waveform freeze



Powerful monitoring functions

- Lung mechanics parameters
- Up to 1500 Alarm Events review
- 72-hours Numerical & Graphical trend review



Nebulizer

Nebulizer- Nebulization with tidal volume compensation (1-30 min)



O2 Therapy

High flow Oxygen rate in combination with an actively humidified system, to effectively improve the oxygenation of patients through the nasopharyngeal space

Technical Specifications

Patient Type	Adult	Pediatric
Modes	VCV, SIMV-VC, PCV, SIMV-PC, PSV, CPAP+Apnea Backup, APRV, PRVC, SIMV-PRVC Non-Invasive: BiPAP, BiPAP-S, BiPAP-ST, HFNC/O2 Therapy	VCV, SIMV-VC, PCV, SIMV-PC, PSV, CPAP+Apnea Backup, APRV, PRVC, SIMV-PRVC Non-Invasive: BiPAP, BiPAP-S, BiPAP-ST, HFNC/O2 Therapy
Tidal Volume	100-2000 ml	10-500 ml
Frequency	1-100 bpm	4-150 bpm
Apnea Back Up Frequency	1-100 bpm	4-150 bpm
Apnea Time	3-45 Seconds	3-45 Seconds
O2 Therapy Flow	1-50 L/min	1-50 L/min
Inspiration time	0.1- 12 S (increment:0.1S)	0.1- 12 S (increment:0.1S)
T_Pause/T_Rise	0-50% /Auto	
FiO2	21%-100% , 100% O2 (1-5 minutes)	
Trigger	Flow Trigger :0 to 20 L/min, Pressure Trigger : – 20 to 0 cm H2O,ETS: % 5 to 80%	
Flow range/Pattern	0-120 L/min, Square, Decelerating	
Pressure Control	5-120 cmH2O	
Pressure Support	0-120 cmH2O	
Electronic PEEP	0-50 cm H2O (increment:1 cm H2O)	
I:E Ratio	1:9.9 – 9.9:1	
Nebulizer	1-30 minutes (Particle Size_<3 micron)	
Waveforms & Loops	Waveforms : P-T, F-T, V-T , Etco2* , Spo2* & Loops : P-V, F-V	
Recall / Review	1500 alarm events , 72 Hours Numerical & Graphical Trends,	
Monitoring Parameters	Ppeak, Pmean, Pplat, PEEP, VTi, VTe, MV, MV_cont., MV_spont, F_Peak_insp, F_Peak_Exp, MVLeak%, Freq, F_cont., F_spont, % F spont, I:E, Ti,Te,Ti/T total, FiO2, (Spo2,Etco2-optional)* Cstat, Cdyn, Rinsp, Rexp, RSBI, WOB, RC, C/C20	
Alarms	Three Level Audio-visual color coded alarms includes,VTe high/low, MV high/low, Tidal volume not reached, High leak,Peak Pressure high/low, Pressure limitation, O2 supply pressure high/low/fail, Air supply pressure,High/low/fail, Apnea, Apnea Backup, Freq high/low, FiO2 high/low, Circle Block, Circle disconnection, Expiatory block,Power: AC Power Fail, Battery Low & Disconnect	

General Specifications

Dimensions/Weight	440x405x322 mm (HxWxD) / 12Kg
Communication Interface	VGA, USB, RS232* (optional), CO2,SPO2.
Display	10.4" color TFT Touch Screen (Rotatable)
Air/Oxygen Gas supply	230 kPa to 600 kPa
Power Supply	100-265V AC, 50/60Hz, 1A, 100 VA ,
Battery	9.6V,12Ah (LiFePO4) Backup > 180min

Safety Standard

Basic Construction	In accordance with IEC 60601-1, IEC 60601-1-2 & EMC 60601-2
Unit Type	Class 1, Type B, IP21
Working Environment	Temperature : 10 To 40°C
Relative Humidity	10 to 90% Non Condensing
Atmospheric Pressure	50 to 106 kPa

Variant **⊗ CVTCV10-AB Cvent-1000T/Adult-Basic**

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