

# Cvent-1000T

# **ICU Ventilation and Respiratory Monitoring**

Excellent weaning performance

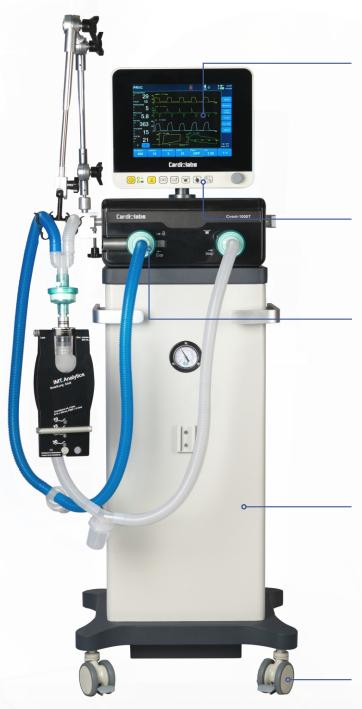
One intelligent ventilator for Adult-Paediatric



## **ICU Ventilator**

## 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 (5 $\mu$ m), 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.



#### **PRV**

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

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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

Varient 0 CVTCV10-AB Cvent-1000T/Adult-Basic



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