Cardiolabs
technology matters...

Cvent-1200T

Excellent weaning performance

One intelligent ventilator for Adult-Paediatric-Neonatal

Anesthesia & critical care equipment - Made in India

All-round Safety.

Technology makes ventilation intelligent - safe to use

Cvent-1200T 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 2ml to 2000ml)

12.1" Color TFT Screen

Simultaneously display of Three Waveforms & Three 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 & Expiratory 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.

(*) features are optional upgradable.

Cvent-1200T ventilator system, customize the treatment of every 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

Neonatal Ventilation

Continuous Flow based(VIVE) Proven Technology for neonatal patients helps flushing dead space in Y piece and maintaining PEEP. Cvent provides tidal volume as low as 2 ml

DuoVent/ APRV Mode

- Provide lung protective ventilation, Use an "open lung" approach including alveolar recruitment, improved oxygenation in ARDS
- Pressure support setting in both lunge for spontaneous breathing to patients.

SmartVent (Adaptive Ventilation Mode)

- Intelligent mode easy to use & lung protective
- Ensure the guaranteed minute ventilation breath by breath at lowest inspiration pressure & helps patient for spontaneously activity from start ventilation
- Automatically set Parameters according to Body Weight
- Auto Synchronous the flow on patient demand,improve outcome & avoid ventilator fighting on spontaneous

Pressure Regulated Volume Control

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

Additional Monitoring*

EtCO2,SpO2,Proximal digital Flow Sensor

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

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

O2 Therapy

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

Utilities

- Inspiratory Hold & Expiratory Hold
- 100% O2 flushing
- Manual Breath
- SIGH Breath (Configurable)
- Waveform freeze
- Nebulizer with tidal volume compensation

Powerful monitoring functions

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

PV Tools (measure LIP & UIP)*
MIP/NIF (Maximum Inspiratory Pressure)*
PO.1 (Occlusion Pressure)*

(*) features are optional upgradable.

Cvent-1200T
ICU Ventilator

Technical Specifications

Patient Type	Adult	Pediatric	Neonatal(Optional)
Tidal Volume	100-2000 ml	10-500 ml	2-50 ml
Frequency	1-100 bpm	4-150 bpm	4-200 bpm
Apnea Back Up Frequency	1-100 bpm	4-150 bpm	2-200 bpm
Apnea Time	3-45 Seconds	3-45 Seconds	3-45 Seconds
O2 Therapy Flow	1-60 L/min	1-50 L/min	1-40 L/min
Inspiration time	0.1- 12 S (increment:0.1S)	0.1- 12 S (increment:0.1S)	0.1- 3 S (increment:0.1S)
Modes	VCV, SIMV-VC, PCV,SIMV-PC, PSV,CPAP+Apnea Backup, APRV, PRVC, SIMV-PRVC,Duovent,SmartVent(Optional) Non-Invasive: BiPAP, BiPAP-S, BiPAP-ST, HFNC/O2 Therapy		IPPV, SIPPV, SIMV, PSV,CPAP, Non-Invasive: nCPAP, nBPAP HFNC / O2 Therapy
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,P-F		
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	12.1" 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	⊙ **CVTCV12-AB** Cvent-1200T/Adult-Basic ⊙ **CVTCV12-NB** Cvent-1200T/Neo-Basic ⊙ **CVTCV12-UB** Cvent-1200T/Universal-Basic

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