



iVent ICU-3310

ICU Ventilator



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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iVent ICU 3310 Ventilator offers advanced, compact yet ICU Ventilator solution. carefully crafted with the combination of cutting edge research and advanced manufacturing technologies, iVent ICU 3310 is one of the most advanced ventilators available.

iVent ICU 3310 is a modular and power efficient invasive ventilator. The IOT enabled design allows multiple ventilators to be controlled remotely making iVent ICU 3310 a much safer and easy to manage option for the doctors in the current case of COVID-19 pandemic.



>> Technical Specification

Modes of Ventilation

 Invasive and Non-invasive:PC-CMV, PC-AC, PC-SIMV, VC-CMV, VC-AC, VC-SIMV, PRVC-CMV, PRVC-AC, PRVC-SIMV, PSCPAP(PSV), BPAP, ARPV

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- Biphasic Ventilation
- Standby Mode
- Auto Weaning Mode
- Apnea Backup Ventilation



Ventilation Settings

Peak Pressure	70 cm H ₂ O	
Peak Respiratory Rate	Upto 80 BPM	
Inspiratory Time	0.2 - 5s	
Tidal Volume	50 - 2000 ml	
Peak Flow Rate	280 L/min	
PEEP	0-40 cm H ₂ O(increment of 1 cm H ₂ O)	
Pressure Support	0-50 cm H ₂ O	
Inspiratory and Expiratory Pause	\checkmark	
I:E Ratio	1:4 to 4:1	
Trigger Flow Sensitivity	1 L/min to 20 L/min	
Volume Accuracy	2-3% of the full scale between 10L/min-120L/min	
Leak Detection and Compensation $$		
Quick Ventilation Mode for Emergency Use		
Programmable SIGH	\checkmark	
100% FiO ₂ Independent of PEEP and Mvi	\checkmark	

Parameters Monitored

- Respiratory Phase and Type
- Exhaled Tidal Volume and Minute volume
- Respiratory Rate
- Total Leak Percentage/Leak Volume
- Spontaneous Minute Volume
- I:E ratio
- Peak Inspiratory and End Expiratory Pressure
- Mean and Plateau Pressure
- Pressure Support
- FiO₂(21-100%)
- Auto/Intrinsic PEEP
- RSBI
- Static Compiance and Resistance
- Low Inflection Point and Upper Inflection Point
- Maximum Inspiratory Pressure
- Lung Recuitment Maneuver and Monitoring



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Graphic Mode with Display

- Flow vs Time
- Pressure vs Time
- Vol vs time
- Flow/Volume Loop
- Pressure/Volume Loop
- Pressure/Flow Loop

Alaems for Device and Patient Safety

- Power Disconnected
- Patient Disconnected
- High Inspiratory Pressure
- High PEEP
- High Respiratory Rate
- Power Sensor Failure
- Read/Write Error
- Ventilator Temperature Error
- System Failure (Safe Mode)
- Low Tidal Volume
- Alarm History of ≥100 ALarms

Physical Safety Provisons

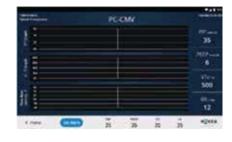
- Excess Pressure Release Volve
- HME Filter
- HEPA filter at the Air intake and Exhaust
- Battery Backup upto 4 hrs
- Active Inspiratory & Expiratory Valves

Unique Features

- UVC Decontamination Chamber
- Inbuit Programmable Nebulizer
- Electronically Controlled Oxygen Input Valve

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Nominal Power Consumption





Diagnostic Controls

- 10 inch Android tablet for control.
- The ventilator is controlled through a mobile application based on the Android Operating System.
- The IOT enabled mobile application allows the users, doctors and healthcare professionals to set and monitor all the information of the ventilator remotely.
- The user friendly UI ensures that it can be operated by anyone familiar with medical system.

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Regulatory compliances





Corporate Social Responsibility

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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