

iVent ICU-3140

ICU Ventilator



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

iVent ICU 3140 is an ICU ventilator with optional compressor and various modes of ventilation suitable for Pediatric and adult patients. It can be used both invasively and Non-invasively for ventilating the patients in ICU.



►► Fully Meets and Exceeds Essential features prescribed for Covid-19

1	The machine should be turbine / compressor based because the installation sites might not have central Oxygen Lines.	Yes
2	The machine should have Invasive, Non- Invasive and CPAP features to make them versatile.	Yes
3	200–600 ml tidal volume, Lung Mechanics Display.	Yes
4	Monitoring of plateau Pressure, PEEP, PS, oxygen Concentration, Lung mechanics /inverse ratio(I:E)	Yes
5	Pressure & Volume control & PSV.	Yes
6	Continuous working capability for 4-5 days.	Yes
7	FiO2 manipulation between 21–100% is essential	Yes
8	PEEP upto 30 cmH2O	Yes
9	FiO2 delivery should be independent of the flow rate PEEP and the minute volume FiO2 delivery to the patient can't be made dependant on other factors. Every patient has a different lungs dynamics and can't be delivered gases at the same settings.	Yes

►► Features

- High-Luminance 7 inches TFT color display
- Pneumatically driven electronically controlled combines sophistication and ease of use
- Suitable for adult and pediatric patients
- Monitoring of parameters : Tidal volume, Peak pressure, Plateau pressure, Pressure support, FiO2 value, I:E ratio, PEEP
 - Lung mechanics: P-V, V-F, P-F loops and Pressure, Volume and Flow graphs & Dynamic compliance monitoring
 - Breathing frequency
 - Minute volume
- Settable Parameters are : Tidal Volume, Inspiratory pressure, PEEP, I:E ratio, Pressure support, Breathing Frequency, Plimit, SIGH, Inspiratory time
- Alarms settings are as : Peak Airway pressure (High & Low), Minute Volume (High & Low), FiO2 (High & Low), Low gas supply, Battery Low, Apnea, Power failure

►► Technical Specifications

- Modes: VCV, PCV, SIMV+PS, SPONT/CPAP+PS
- Apnea Backup Ventilation
- Tidal volume Range: 20 – 1600 ml
- Breathing Freq: 1–100bpm, SIMV : 1–40bpm
- Peak Pressure: 5–60cmH₂O
- I:E: 4:1 – 1:5
- FiO₂: 21 – 100%
- PEEP: Off – 30cmH₂O
- O₂ Supply: 4–7 bar

►► Electrical & Physical Specifications

- Power: Mains 220-240 VAC Supply
- Battery: 2 Hours of continuous operation
- Weight: Main Unit with Compressor – 65kg
- Dimensions (in mm)
 - Main Unit - 324B x 356H x 260D
 - Main Unit with Compressor - 1400H×490D×490L

►► Standard Accessories

- Single limb circuit with expiratory valve
- Face Mask
- Power cable
- High pressure Oxygen tubing
- User manual

►► Optionals

- Medical Air Compressor
- Regulator for O₂ cylinder
- Humidifier

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



Analytical
Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

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

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

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