

ICU Ventilator-3110



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

▶▶ Application

The ventilator makes a good performance in operation room, ICU department and emergency treatment. It used to assist or replace the spontaneous breathing for adult pediatric and neonatal more than 2kg. 25 years experience in Market-oriented ventilator make us professional and reliable, satisfying all your needs in ventilation. Due to the flexible configuration, good quality and competitive price, 3110A has soon become the superstar of market.

▶▶ Features

15" TFT touch screen displays the ventilation parameters, alarm information, and oscillograms, make every operation more easily. Multiple ventilation modes, suitable for ICU, emergency department and operation room etc: (IPPV, A/C, PCV, SIMV, PSV, SPONT/CPAP, SIGH, MANUAL)

5 oscillograms for your choice, 3 of them can be displayed on the screen at the same time. ETCO₂ is standard configuration for this machine.

Humidifier can heat and wet breathing gas, makes it comfortable for patient to breathe.

Rapid oxygen supply, automatically offer high flow rate oxygen within two minutes

Nebulization make medicine into small liquid and particle, easier and quicker for patient to breathe in.

High temperature resistance breathing circuit is reusable and anti-pollution.

▶▶ Safety

14 types of sound and visual alarm information, easier for users to do some error checking and troubleshooting.

Built-in oxygen concentration sensor, ensure stable precision of oxygen concentration.

Easy to move with four casters, easy to stop with two brakes.

Separate design of electronic circuit and gas flow rate keep safe running of ventilator.

Compact long life internal battery can provide emergency power, avoid risk of patient.

Self-check before operation, eliminate system mistake.

14 types of alarm and protection function

3 of 5 oscillographs can be displayed on the screen at the same time

15" TFT LCD screen display
screen saver mode

2 minutes fast oxygen supply

Parameters setting

Parameters monitoring

Nebulization function

Oxygen concentration sensor

Humidifier
Heating and wetting, real-time temperature display

Display continuous working hours for the air compressor

►► Technical specification

Ventilation mode

- PRVC, APRV, DUOLEVEL, V-SIMV, P-SIMV, IPPV, A/C, PCV, PSV, SPONT/CPAP, SIGH, MANUAL

Ventilator parameter

- Tidal volume (Vt) : 0, 20 ~ 2000 mL
- Frequency (Freq) : 1 min ~ 100 min
- Oxygen concentration : 21 % ~ 100 %
- I:E : 4 : 1 ~ 1 : 8
- PEEP : 0cmH₂O ~ 40 cmH₂O
- Pressure triggering sensitivity (Ptr) : -20 cmH₂O ~ 20 cmH₂O (Based on PEEP)
- Flow trigger sensitivity (Ftr) : 0.5 L/min ~ 30 L/min
- Pressure control (PC) : 5 cmH₂O ~ 80 cmH₂O
- Pressure support (PS) : 0 cmH₂O ~ 80 cmH₂O
- SIGH : 0 (off) 1/100 ~ 5/100
- Apnea ventilation : OFF, 5 s ~ 60 s
- Pressure limit : 20 cmH₂O ~ 100 cmH₂O

Monitoring parameter

- Frequency (Freq) : 0 / min ~ 100 / min
- Tidal volume(Vt) : 0 / min ~ 100 / min
- MV : 0 L/min ~ 99 L/min
- Airway pressure : 0 cmH₂O ~ 100 cmH₂O
- Dynamic lung compliance testing : 1 mL/cmH₂O ~ 1000 mL /cmH₂O
- ETCO₂ concentration : 0 mm Hg ~ 152 mmHg (0 % ~ 20 %)
- Oxygen concentration : 0 mm Hg ~ 152 mmHg (0 % ~ 20 %)

Packing size

- Main engine : L 560 * W 560 * H 605 mm
- G.W. : 40 KG, N.W. : 22 KG
- Air compressor : L 683* W 687 * H 1140 mm
- G.W. : 100 KG, N.W. : 65 KG

Alarm and protection

- AC power failure alarm : Power failure or no connection
- Internal backup battery low voltage alarm : $\leq 11.3 \pm 0.3$ V
- No tidal volume : No tidal volume within 6 s
- High minute volume alarm : 5 L/min ~ 99 L/min
- Low minute volume alarm : 1 L/min ~ 30 L/min
- High airway pressure alarm : 20 cmH₂O ~ 100 cmH₂O
- Low airway pressure alarm : 0 cmH₂O ~ 20 cmH₂O
- High oxygen concentration alarm : 19 % ~ 100 %
- Low oxygen concentration alarm : 18 % ~ 99 %
- Continuous pressure alarm : (PEEP + 1.5 cmH₂O) over 16 s
- Suffocation warning : 5 ~ 60 s
- Fan error : Show on screen
- Oxygen deficit : Show on screen
- The maximum limited pressure : < 12.5 kPa

Working condition

- Gas source : O₂, Air
- Pressure : 280 kPa - 600 kPa
- Voltage : 220 V \pm 22 V
- Power frequency : 50 Hz \pm 1 Hz
- Input power : 900 VA (With air compressor)
250 VA (Without air compressor)

Oscillogram

- P-T(Pressure-Time)
- F-T(Flow-Time)
- V-T(Volume-Time)
- ETCO₂ -T (End-Tidal CO₂-Time)
- P-V Loop(Pressure-Volume Loop)
- F-V Loop(Flow-Volume Loop)
- P-F Loop(Pressure-Flow Loop)

▶▶ Other models for your reference:



3110B



3160



3110

HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



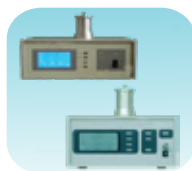
Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

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.

Reach us @



HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide