







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

Analytical Technologies Limited

An ISO 9001 Certified Company

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 CO₂ incubators are highly recommended for scientific research to grow and maintain cell cultures in vitro. A CO₂ incubator operates on simple parameters depending on 3 parameters, carbon dioxide, Temperature & Relative Humidity.

Precision of the CO₂ incubator is of crucial & high importance as the smallest deviation in the CO₂ atmosphere, temperature or humidity parameters during cell cultivation or any scientific research or experiment can affect the cell development & may cause unexpected changes.

- Sleek, reliable & versatile
- Easy to use
- HEPA filters
- Less maintenance
- Energy efficient
- User friendly
- Microprocessor based Controller

Applications include :

- Tissue engineering
- Cell culture
- In vitro fertilization
- Neuroscience
- Cancer research
- Other mammalian cell research

>> Construction :

- Inner chamber is made up of high grade stainless steel
- Outer chamber is made up of GIPC duly powder coated.
- Tray is also supplied to make the shelves inside the chamber.
- Glass Wool Insulation: 75 mm insulation to reduce heat losses in cabinet for better sensitivity and economical operations with minimal impact on the environment.
- Forced air circulation in the chamber by a blower ensures uniform temperature and humidity inside the chamber.
- Door: is provided with magnetic door closer and its outer body is made of powder coated MS.
- Carbon Dioxide can be provided inside the chamber through an inlet nozzle provided on the cabinet through a CO₂ cylinder. The gas flow can be regulated by using flow control valve with CO₂ regulator. Air can be admitted through nozzle fixed on the cabinet.

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Temperature Range: 0.5°C above ambient to 50°C

Temperature uniformity: ±0.35°C at 37°C ±0.5°C

Temperature Sensor: PT 100

Temperature Control: Temperature inside the chamber is controlled by intelligent programmable temperature controller and indicator and the controller is based on the microcontroller nano watt technology.

Heating: is done with ISI marked strip type heaters placed around the inner chamber. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring very good temperature sensitivity

Air Circulation: Circulated by ISI mark silicon winded motors which are connected to balanced blowers.

CO₂ Control system: these Incubator use a microprocessor based, non-dispersive infrared CO₂ sensor. The amount of energy diffused to the detector is an exact logarithmic function of the CO₂ concentration in the gas between source and detector. The wavelengths used are absorbed by a filter in the CO₂ bandwidth making the measurements insensitive to other components, such as water vapor. Advanced design provides a very stable drift-free output requiring less frequent calibration. The sensor is within the chamber air plenum so very accurate CO₂ control is achieved.

CO₂ Concentration Range: 0.2 to 20%

CO₂ Control Accuracy: ±0.1%

>> Technical Matrix :

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Capacity		100 Liter
Construction		Triple walled
Inner		Stainless Steel 304
Outer		GIPC Epoxy Powder Coated
Inner Glass Door		To Observe Sample without disturb uniformity of chamber
No. of shelves (supplied)		4 Nos.
Type of Shelves		Wire Mesh
Material of Shelves		Stainless Steel 304
Temperature Range		5°C above ambient to 50°C
Temperature Controller		Microprocessor based PID
Temperature Uniformity		±0.35°C at 37°C ±0.5°C
Temperature sensor		PT-100
Display		Digital
Alarm		Audible & Visual
HEPA Filter		Inbuilt
Heating systemCO2		Direct heating system
		Water-Jacketed
CO2	Range	0.2 - 20%
	Accuracy	± 0.1%
	Sensor	infrared CO2 sensor
	Rate	≤ 5minutes
Humidity		Up to 95%
Humidity Pan		Stainless Steel 304
Water reservoir system		3 liters
Insulation		75 mm (Glass Wool)
Power supply		220 V, Single Phase 50/60Hz
CO2 Cylinder & Regulator		Optional (Purchase Locally Yourself)
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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 Maintenace 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, troubleshooting.

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

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



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, Manufaturing, 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



Optical Emission Spectrophotometer



Fully Automated

CLIA

Infra FTIR



Optima Gas

Chromatograph 3007



Semi Auto Bio Chemistry Analyzer



Chromatograph 2979 Plus



HEMA 2062 Hematology Analyzer



TOC

Analyzer



Flash

Atomic Absorption

Spectrophotometer

URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800





Water purification system

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Micro Plate Reader/Washer











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Size Analyzer

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Regulatory compliances



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



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 personallities 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 DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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