

BOD-3009 INCUBATOR



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

FEATURES:

- Stainless steel inner chamber
- Four square semicircle transition, convenient to clean ;
- Micro-computer control system; LCD display with functions of time setting, parameter memorizing and power reset recovering. (Optional)
- CFC-free refrigeration and gentle breeze circulation.
- Double door seal, tempered glass, silicon rubber seal,
- Inner & Outer door with magnetic rubber seal.
- Inner chamber with light for convenient observation.

PRODUCT DETAILS:

Most versatile for Biochemical Oxygen Demand determinations. Castor wheel mounted cabinet is double walled with inner chamber S.S. and outer wall of M.S. Sheet duly powder coated. The gap between the outer and the inner wall is fitted with special grade glass wool to prevent thermal losses. Temp. range 5°C to 60°C with an accuracy of $\pm 1^\circ\text{C}$. Unit is fitted with air circulation fans for maintaining temperature uniformity throughout the chamber. Fully view inner glass/Acrylic door permits inspection of specimens, without disturbing the same. Lock and key arrangement is provided in the double walled outer door. Unit is fitted with fluorescent illumination lamp inside the chamber (as per customer requirement). Refrigeration unit is formed by compressor. The front panel is provided with separate indicator lamps-cum-switches for Main, Heating and Cooling. Works on 220 / 230 Volt A.C. supply.

CONSTRUCTION:

BOD Incubators are double walled convection heated units. Outer body of our incubators are constructed out of thick PCRC sheet duly pre-treated with primers and rust proofing and painted with long lasting stove enamel or elegantly powder coated.. The inner chamber is made of heavy gauge stainless steel sheet of S.S-304 grade. The gap between the walls is filled high grade mineral glass wool, which ensures maximum thermal efficiency in our BOD incubators. The unit is provided with two doors , the inner door is made of thick plexi glass/float glass, to view the specimens without disturbing the temperature of the chamber. This door is provided with magnetic door closer. The outer door is made of mild steel sheet lined with stainless steel from inside.. This door is provided with lock and key arrangement. The unit is mounted on a sturdy steel frame and provided with castor wheels for easy movement inside the laboratory. The unit is provided with three stainless steel shelves. The triple walled back of our BOD incubators are provided with two air circulation fans for uniform maintenance of the temperature throughout the chamber.

HEATING/COOLING:

Indirect heating system is provided in our units, comprising of air heaters made of high grade Kanthal A-1 wires of suitable wattage. The warm air is evenly distributed throughout the chamber through efficient motor fans ensuring a very good temperature sensitivity. An energy efficient cooling unit is installed in our B.O.D incubators to enable bio chemical demand studies at lower room temperatures. We use ISI marked high end CFC free compressors.

TEMPERATURE RANGE / TEMPERATURE SENSITIVITY:

Temperature range of our standard B.O.D incubator models are 5°C to 60°C. However we have the capacity to modify the same to suit the individual specialized requirements of our customers. Temperature inside our BOD incubators are controlled with a sensitivity of + 0.5°C or better.

ILLUMINATION :

Our units are provided with door operated illumination system comprising of fluorescent lights.(OPTIONAL) Front panel of our units comprises of on/off switches heating, cooling and mains indicator lamps, temperature controllers and voltmeters.

TECHNICAL MATRIX FOR B.O.D INCUBATOR:

Temperature Control		
Temperature Sensitivity	± 0C	0.5 or Better
Spatial Deviation in Temperature Readability 0C 0.1	± 0C	0.5 or Better
Temperature Range	0C	5°C to 60°C (Standard)
Temperature Sensor	-	PT -100
Temperature Controller		Solid State Digital Controller / PID Optional
Display		LED/LCD
Adjustable alarm limits		Optional With PID Controller Only
Safety Thermostats		
Temperature Variation Adjustment	-	3 (With PID Controllers Only)
Temperature Sensors	-	PT-100
Automatic Temperature Setting	-	Yes (With PID Controllers Only)
Adjustable limits	-	Yes (With PID Controllers Only)
Shelf		
Standard	-	3
Internal Dimensions	mm	Model Specific
Maximum Permitted load per Shelves	kg	25 kg (As per chamber size)
Maximum permitted total load	kg	75 kg
Power Consumption		
Nominal Power	W	1050
Nominal Voltage	V	220-230 Volts, 50 Hz Single Phase
Frequency	Hz	50

OPTIONAL UPGRADES FOR B.O.D INCUBATORS:

Universal Digital Data Recorder with Computer

This is unique module which can be incorporated with our BOD incubators to log in temperature and environment related data with a help of a data logger unit which has a pc connectivity by means of RS 232 C interface. This data is then analyzed and formatted with the help of our unique user friendly analysis software to enable the user to get a formatted and analyzed reports of various inputs during the full operation cycle of the equipment. This is an ideal module for pharmaceutical laboratories, process control applications and high research projects where maintaining a viable record of the performance of the equipment is very essential.

SPECIFICATIONS:

	Inner chamber size in mm (W×D×H)	Capacity (in cu .ft)	Capacity (in ltrs.)
A	455×410×610	4 cu .ft.	112 ltrs
B	505×415×830	6.1 cu .ft	171 ltrs
C	565×565×865	10 cu .ft	280 ltrs
D	650 x 580×900	12 cu .ft	336 ltrs
E	700×650×900	15 cu .ft	420 ltrs

OPTIONAL:

- i) Timer 0-24 hours.
- ii) CO2 air mixer nozzle.
- iii) Internal illumination with 3 fluorescent tubes.
- iv) Digital temp. indicator-cum-controller
- v) Microprocessor PID digital temp. Indicator-cum-controller
- vi) Automatic Voltage Stabilizer 3-5 KVA (Recommended Must)

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 PLC principles, operations, troubleshooting.
- Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA 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 globe. 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 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	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.

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