

OSI-3240 Plus

ORBITAL SHAKING INCUBATOR



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

ATL Orbital Shaking Incubators are designed for precise temperature control and simultaneous shaking applications required in fermentations studies, enzyme reactions, life sciences, tissue culture and biotechnology, research labs.

►► **Salient Features :**

- Brushless induction Motor with variable frequency drive suitable for continuous operations
- Step less variable frequency drive ensures gentle shaking start and maintains set speed
- Counter balanced mechanism for high stability in uneven load of different sized flasks
- Universal Shaking Platform to accommodate different sized assorted flasks
- Maximum shaking capacity " 9 Flasks x 2000 ml
- Powerful fan motor for forced air circulation to maintain uniform conditions inside chamber
- Machine filled PUF insulation to eliminate void pockets
- Unique design of thermal barrier for better energy efficiency
- Heating by long SS tubular heaters
- Additional tray to store samples
- Chamber calibration port on side
- Hermetically sealed Compressor with CFC free refrigerant
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Optional
 - » Touch screen display (TFT) with additional features(Details overleaf)
 - » Validation protocol with IQ, OQ, PQ Documentation

►► **LCD Display Features :**

- 4 Inch attractive LCD display
- Intelligent Controller helps maintain temperature in case of sensor failure
- Battery Backup for Temperature Controller
- Auto tuning of controller
- Self-Diagnosis for errors
- Histogram format of 24 hours temperature recording
- Power failure and resumption recorded with date and time
- Settable High / low alarm points
- Memory for storage of upto 1000 records
- Centronic interface to record Temperature, Date, & Time by attaching Dot Matrix printer with adjustable print interval
- Alarm on equipment / output for remote alarm
- PC communication through RS-485 with data acquisition software
- ATL 'Datasoft' Data acquisition software complying to 21 CFR part 11 as per USFDA Guidelines (optional)

►► **Touch Screen Display Features :**

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 10,000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- PC communication through ATL Datasoft
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions

►► **ATL 'DATA SOFT'**

- 7 inch big colour touch screen
- PLC (Programable logic controller)
- Memory of 10,000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- PC communication through ATL Datasoft
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions

►► **OPTIONAL ACCESSORIES**

- Chamber illumination with the help of 2 Nos. fluorescent tubes
- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Data logger for 8 Point temperature & Humidity recording with sensors printer interface and software
- Seven days circular chart recorder (single channel)
- Software as per 21 CFR Part 11 requirements
- PLC Based Control System with HMI Touch Screen
- Biometrics Magnetic Door Access for Secured Door opening with software to maintain log
- Validation (mapping) consist of one cycle for temperature at any one set point for 24 hours on empty and loaded condition
- Standby Refrigeration System
- GSM alert through SIM card

►► Technical Data

Particulars	OSI-3240 Plus	OSI-3240R Plus
Temperature Range & Accuracy	5°C to 60°C, $\pm 0.5^{\circ}\text{C}$	5°C above ambient to 60°C, $\pm 0.5^{\circ}\text{C}$
Internal Volume (Liters)	215	
Platform Size	580mm x 600mm	
Maximum Shaking Capacity (Volume x No. of flasks)*	100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9	
Shaking Speed range (RPM)	20 to 250	
Shaking Amplitude	25 mm	
Internal Dimensions W x D x H (mm)	660 x 765 x 650	
External Dimensions W x D x H (mm)	800 x 1150 x 1300	
Temperature control	Microprocessor with PT-100 sensor	
Display	4" LCD Screen, Large size Display for ease of reading	
Power Failure Alarm	Audio Visual Alarm	
Door Open Alarm	Audio Alarm in case door open for over one minute	
Temperature Variation Alarm	Set Temperature $\pm 2^{\circ}\text{C}$, Audio Visual Alarm	
Illumination	8 Watts Fluorescent Tube	
Internal Body Material	Stainless Steel – 304 grade (Standard Models), Stainless Steel – 316 grade (GMP Models)	
External Body Material	Powder Coated CRCA Steel (Standard Models), Stainless Steel – 304 grade (GMP Models)	
Insulation (CFC free polyurethane foam)	70 mm minimum for Body & 80 mm for Door	
Noise Level	Less Than 65 db (A)	
Recommended Voltage Stabilizer	VS-02	X

Supply: 220-240 Volts, 50 Hz Single Phase.

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



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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
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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 @



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