



# ANALYSIS INSTRUMENTS

WHERE SERVICE AND QUALITY IS OUR FIRST NATURE

## ORBITAL SHAKING INCUBATOR

Analysis Instruments 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.

**These chambers are available in standard & GMP versions.**

### 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 CFC free 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 (AIOSI-215L)
- ❖ Microprocessor controller with LCD display for display of shaking speed & temperature
- ❖ 9 programs memory
- ❖ High temperature safety cut off & alarms for high / low set temperature
- ❖ Electrical circuit breaker
- ❖ Time delay for compressor switch on (AIOSI-215L)
- ❖ Overload cut off relay for compressor (AIOSI-215L)
- ❖ Rounded inner chamber for easy cleaning
- ❖ Attractive door profile
- ❖ Weight carrying capacity of each tray : 15 Kg, Uniformly distributed
- ❖ Smart Handle with LED door closure indication
- ❖ Optional
  - Touch screen display ( TFT ) with additional features(Details overleaf)
  - Validation protocol with IQ, OQ, PQ Documentation
  - Port for calibration probes / safety back up

### 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
- ❖ Settable High / low alarm points
- ❖ Memory for storage of up-to 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





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| TECHNICAL DATA                                     |                                                                                         |                                                    |
|----------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------|
|                                                    | AIOSI-215L                                                                              | AIOSI-215L                                         |
| 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                                            | 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)                                                                     |                                                    |

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

\*Clamps to be ordered separately

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