

ORBITAL SHAKING INCUBATOR (COOLING)

- These shakers are ideal for mixing and development of culture, chemical, solvent and various other application.
- The orbital shaker is assembled ion heavy duty mild steel angle and sheet section.
- The drive has Single Excentre and 3 Pin.
- Doubled wall inner S.S. outer mild steel temperature range 5 °C above ambient to 60 °C accuracy ± 0.5 °C controlled by preset dual display electronic digital temp. Controller indicator.
- Double walled chamber, inner made of polished stainless-steel sheets and outer made of cold rolled mild steel sheets with powder coat finish.
- The wall is insulated with special grade glass wool.
- The inner chamber accommodates one. easily removable Stainless-Steel tray at adjustable height and is also provided with a shaking platform with threaded holes for mounting stainless steel clamps for holding conical flasks from 50 ml to 1000 ml capacity.
- An outer double door with inner full view acrylic door permits inspection of specimens.
- Heating is by imported nichrome wires.
- Temperature is controlled by a Digital Indicator cum controller working in conjunction with PT 100 sensor.
- Powerful air circulator creates positive airflow through the incubator.
- Temperature range to 5°C to 60 °C ± 0.5 °C controlled by preset dual display electronic digital temp. Controller indicator.
- The shaker is driven by a variable DC Motor with variable speed control.
- The speed is indicated RPM Indicator for digital display of speed with preset facility.
- The control panel accommodating, digital controller, pilot indicating lamps, on/off switches, digital RPM Indicator, etc., will be provided at the top of the unit.
- RPM range: 50 to 200 Rpm orbital (25cm) variable speed controlled by digital display RPM controller cum indicator (permanent Magnet DC Motor) complete with stainless steel tray lotus shaped spring action clamps but without conical flask.

ORBITAL SHAKING INCUBATOR (COOLING)

CODE	Total SIZE	Capacity / flask
OSIC-9x250	2250 ml	9X250
OSIC-16x250	4000 ml	16x250ml
OSIC-9x500	4500 ml	9x500ml
OSIC-16x500	8000 ml	16x500ml

OPTIONAL ACCESSORIES

CODE	Total SIZE
OS-01	Digital Timer with audio visual alarm
OS-02	Chamber illumination with fluorescent tube 1 No.
OS-03	Chamber illumination by U.V. lamps 1 No.
OS-04	Cyclic timer for illumination Control
OS-05	Voltage stabilizer



ORBITAL SHAKING INCUBATOR (HEATING)

CODE	Total SIZE	Capacity / flask
OSICH-9x250	2250 ml	9X250ml
OSICH-16x250	4000 ml	16x250ml
OSICH-9x500	4500 ml	9x500ml
OSICH-16x500	8000 ml	16x500ml
OSIH-4x1L	4000 ml	4x1000ml
OSIH-4x2L	8000 ml	4x2000ml
OSIH-4x4L	16000 ml	4x4000ml



APPLICATIONS

- Dual Life brings the ultra-high-tech Triple walled Microprocessor controlled, solid-state Orbital Shaking Incubator down to earth
- Specially designed for Orbital Shaking under controlled incubations (Temperature required for Tissue Cultures Fermentation Studies, & Ageing Tests., Life science applications & growth studies

SALIENT FEATURES & CONSTRUCTION

- Robust construction outer chamber is made of Mild Steel duly pre treated & finished with powder coated paint for lasting finish.
- Inner chamber made of STAINLESS STEEL SHEET (304 Grade).
- Fitted with durable coaxial blower for forced air circulation at triple walled back to maintain temperature uniformity in the chamber
- Outer front double walled door is insulated and is fitted with magnetic tape for airtight closing for no temperature loss, provided with lock and key arrangement
- Fitted with Universal Platform to accommodate interchangeable clamps of assorted sizes for different capacity of flasks.
- Stationery shelves made of Stainless Steel (SS-304) for use of the unit as a standard B.O.D. Incubator can be supplied at extra cost.
- Door operated illumination lamp is fitted inside the chamber for easy visibility.
- A full view inner plexi glass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- High grade PUF insulation between outer and inner chamber for minimal thermal losses.
- Cooling is done by finned tube evaporator lie in the air circulation path by ISI marked Compressor/Condensing Units CFC free & R-134 A eco friendly refrigerant.
- Heating elements are placed in the path of moving air duly insulated from the body.
- Control panel having all controls and circuitry are housed at the top fitted with Temperature controller cum Indicator Microprocessor based with LED display for Set Value (SV) & Process Value (PV) to select any desired temperature provided with Volt meter on the panel to read the incoming voltage.
- Caster wheel mounted for easy portability,
- Supplied with cord and plug.
- Operating Voltage: 220 Volts AC (50 Hz).

Technical Spec.

- Usable Space in MM : 660 x 765 x 650
- No. of Shelves : 2
- Temperature Range : 5 to 60 C (Resolution 0.1C)
- Temp Controller : By Microprocessor Based PID Digital Temperature Indicator cum Controller.
- Shaking amplitude : 25 mm.
- RPM Display : Digital
- Shaking Speed : Variable speed from 20 RPM to 250 RPM
- Temp. Display: LED Display for Set Value(SV) and Process Value (PV)
- Relay : Solid state electronic relay with protective heat sink.
- Air Circulation : By forced convection system
- Insulation : By High density PUF insulation
- Operations : Nearly silent operation with ultra-low vibration
- High Voltage Protection : Through automatic voltage stabilizer (Optional)
- Electric Supply : 220/230V AC ; 50/60Hz



OPTIONAL FEATURES

- LCD Controller with Data Logger : (16 x 2) with optional RS-485 communication ports, cables window based software with inbuilt data recording.
- Communication Port : Communication port with interface and data cable to download data to your PC.
- Timer : With reverse 0 - 24 hours for regulating hours of light and darkness including, fitting at the top of incubator.
- Shaking Frequency Range : 50 to 300rpm.
- Shaking Motion : By Permanent Magnet DC Drive for continuous operations.
- Lotus Clamp Holders : Made of Stainless Steel (SS-304) (One set supplied as per user configuration)
- Flask Configurations Available (any one set supplied with the unit): 100ml x 49, 150ml x 49, 250ml x 33, 500ml x 24, 1000ml x 15, 2000 ml x 9
- Chamber Sterilization : By U.V. germicidal tube.
- Interior Illumination : By fluorescent tubes of for photosynthetic applications
- Regulated Voltage : By Voltage Stabilizer Automatic