

ORBITAL SHAKING INCUBATOR (BOD Type Only Heating)

THE PLT - 145 SERIES

APPLICATIONS

- "TANCO" 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 air tight 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/Glass Wool INSULATION between outer and inner chamber for minimal thermal losses.
- 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).



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TECHNICAL SPECIFICATIONS & ORDERING INFORMATION

Usable Space in MM	600 X 600 X 600
Capacity	8 cu. Ft
Approx Volume (Ltr)	230
No. of Shelves	2
Temperature Range	5°C above ambient to 60°C (Resolution 0.1°C)
Temp. Controller	By Microprocessor Based PID Digital Temperature Indicator cum Controller
Shaking amplitude	25mm
RPM Display	Digital
Shaking Speed	Variable speed from 20 RPM to 250 RPM
Temp. Accuracy	±1°C
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 /Glass Wool
Operations	Nearly silent operation with ultra-low vibration
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)	36 Erlenmeyer Flasks of 100ml capacity each. 24 Erlenmeyer Flasks of 250ml capacity each. 16 Erlenmeyer Flasks of 500ml capacity each. 9 Erlenmeyer Flasks of 1000ml capacity each.
Chamber sterilization	By U.V. germicidal tube.
Interior Illumination	By fluorescent tubes of for photosynthetic applications

