

B.O.D. INCUBATOR (Eco-Friendly) Automatic

THE PLT - 141 SERIES

APPLICATIONS

- "TANCO" brings the ultra-high-tech Triple walled Microprocessor controlled, solid-state heating/cooling incubator (BOD Incubator) down to earth.
- Specially designed for incubation of Biochemical Oxygen demand on water and sewage; can be used as environmental study and growth chamber by incorporating lighting and humidification system.
- Used in various applications for microbiology, cell cultivation of animals, plants & food studies where experiments requiring low temperature conditions. Used for microorganism or activation, good storage and desalting process of enzyme extracts and for preservation of vaccines, insulin, level extracts, a* 15°C for serological and complement fixation tests for enzymatic digestion process.

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.
- 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.
- Inner chamber has ribs for placing the shelves at convenient levels. Supplied with 2 or 3 removable shelves.
- 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

Model No.	BOA - 2	BOA - 4	BOA - 6	BOA - 10	BOA 12	BOA - 15
Usable Space in MM	405 x 405 x 405	610 x 450 x 410	845 x 500 x 400	870 x 570 x 560	900 x 650 x 570	700 x 900 x 650
Capacity	2 cu. ft	4 cu. ft	6 cu. ft	10 cu. ft	12 cu. ft	15 cu. ft
Approx Volume (Ltr)	60 ltrs	113 ltrs	173 ltrs	282 ltrs	342 ltr	421 ltrs
No. of Shelves	2	2	2	2	2	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.					
Temp. Accuracy	±0.5°C					
Display:	LED Display for Set Value(SV) and Process Value (PV)					
Relay	Solid state electronic relay with protective heat sink.					
Auto Tuning System	System is compatible with auto tuning system					
Air Circulation	By forced convection system					
Insulation	By High density PUF insulation					
Operations	Nearly silent operation with ultra-low vibration					
Voltage Indicator	By Digital Volt Meter fitted on Panel					
High Voltage Protection	Through automatic voltage stabilizer (Optional)					
Electric Supply	220/230V AC, 50/60Hz					

OPTIONAL FEATURES

Controlling of Temperature	By Profile Digital Microcontroller having 4 Programmers each of 16 steps (total 64 steps of ramp / soak profile)
PLC Based Control Systems	With Touch Screen Display with Direct Thermal / Dot Matrix Printer.
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.
Lighting system	By interior illumination with 3 fluorescent tubes of 60 cm. (20 Watts) placed vertically along back wall Temp. 10°C to 60°C
Timer	With reverse 0 - 24 hours for regulating hours of light and darkness including fitting at the top of incubator.
CO ₂ air mixtures	For incubation in CO ₂ air mixtures provided with nozzle fitted at the side of Control panel for admitting CO ₂ or CO ₂ air mixture chamber
Carbon dioxide cylinder,	Capacity: 10 Ltr with CO ₂ regulator and pipe fittings.
Humidity Control arrangement.	55 % to 90% ± 5 % RH with Digital Humidity Controller/Indicator
Shaking Facility	By Slow Speed Shaking Platform
Regulated Voltage	By Voltage Stabilizer Automatic

