

# SEED GERMINATOR (SINGLE CHAMBER)

THE PLT - 147 SERIES

## APPLICATIONS

- "TANCO" brings the ultra-high-tech Triple walled Microprocessor controlled, solid-state Seed Germinator used for normal germination applications and for various other tests involving micro-organisms, plants, tissues, electronic components etc.
- Used for plant growth, biological studies, forestry research works propagation of seeds, and incubation that requires a controlled environment (hot/cold cycles and light dark operations).

## 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).
- Chamber has stainless steel water reservoir at bottom is heated through immersion type heaters generates the steam thus creating humid condition inside the chamber. Humidity from 90 to 95% plus minus 3 % (not adjustable. Bottom reservoir location and interior drain replenishes water supply, reducing the need for technician to monitor water level.
- 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.
- A full view inner plexi-glass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- Door operated illumination lamp is fitted inside the chamber for easy visibility.
- Fitted with durable coaxial blower for forced air circulation at triple walled back to maintain temperature uniformity in the chamber.
- Inner chamber has ribs for placing the shelves at convenient levels.
- Heating elements are placed in the path of moving air duly insulated from the body.
- 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. (Optional).
- High grade Glass Wool / Puf Insulation between outer and inner chamber for minimal thermal losses.
- Fitted with Control Panel with advanced micro-processor based technology 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.
- Safety Thermostate to prevent over heating.
- 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.	SGSC- 1
Workable Chamber Size	900 x 500 x 600 mm
Approx Volume (Ltr)	310 ltrs
No. of Trays	14 Aluminium Perforated Trays
Temperature Range	5°C above ambient to 60°C
Temperature Range	5°C to 60°C in Cooling Models (Optional)
Temp. Controller	By Microprocessor Based PID Digital Temperature Indicator cum Controller.
Temp. Accuracy	±1°C
Display	LED Display for Set Value(SV) and Process Value (PV)
Humidity (Not Adjustable)	Created in a S.S. water reservoir fitted at the bottom to provide 90% to 95% ±3 % RH
Relay	Solid state electronic relay with protective heat sink.
Air Circulation	By forced convection system
Insulation	By Glass Wool / PUF Insulation (High density)
Operations	Nearly silent operation with ultra-low vibration
Voltage Indicator	By Volt Meter fitted on Panel
Electric Supply	220/230V AC, 50/60Hz

## OPTIONAL FEATURES

Freezer Compressor	Hermetically sealed air cooling compressor system (For Cooling Models)
Controlling of Temperature	By Profile Digital Micro controller 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.
Humidity Control arrangement.	55 % to 90% ± 5 % RH with Digital Humidity Controller/Indicator
Regulated Voltage	By Voltage Stabilizer Automatic

