HUMIDITY & TEMPERATURE CONTROL CABINET (REFRIGERATED)

THE PLT-261 SERIES

APPLICATIONS

- "TANCO" brings the ultra-high-tech Triple walled Microprocessor controlled Humidity & Temperature Control Cabinet (Refrigerated) forced convention type.
- Specially designed for carrying out different quality control test under controlled conditions of temperature and humidity for motors, various electrical fittings, electronic circuits and components, cloth and paper etc. & in various research labs.

SALIENT FEATURES AND CONTRUCTION

- 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.
- Inner chamber has SS angels for placing the shelves at convenient levels. Supplied with 2 or 3 removable shelves.
- 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 is done by indirect heating system by air heaters made of stainless steel placed in the path of moving air in the chamber.
- Temperature Range. Temperature ranges of our humidity cabinet models are 100C to 600C.
- Temperature controlled by microprocessor based temperature controller having LED display with an accuracy of +10C fitted with PT-100 sensor (Resolution 0.10C)
- Humidity System: Humidity is generated by steam injection system consist of boiler tank, placed below the chamber fitted with boiler heater.
- Humidity Range: 50% of 90% & controlled controlled by mean of an electronic humidity controller cum indicator with an accuracy of + 3 to 5%RH.
- 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 & humidity controller cum indicator 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 SPECIFICATIONS & ORDERING INFORMATION

Model No:	HCR 1	HCR 2	HCR 3
Usable Space in mm(W x H x D)	450 x 450 x 700	600 x 600 x 600	600 x 600 x 900
Capacity	5.2 Cuft	8 Cuft	12 Cuft
Approx Voulme	150 Ltr.	227 Ltr.	340 Ltr.
No. of Shelves	2	2	3
Temperature Range	10°C to 60°C (Resolution 0.1°C)		
Temp. Controller	By Microprocessor Based PID Digital Temperature Indicator cum Controller.		
Temp. Accuracy	±1 °C		
Humidity Range	50% to 90% at cool temperature		
Humidity Accuracy	+ 3 to 5%RH		
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		
Operation	Nearly silent operation with ultra-low vibration		
Voltage Indicator	By Volt Meter fitted on Panel		
High Voltage Protection	Through automatic voltage stabilizer (Optional)		
Electric Supply	220/230V AC, 50/60Hz		

OPTIONAL FEATURES

PLC Based Control System	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
Regulated Voltage	By Voltage Stabilizer Automatic