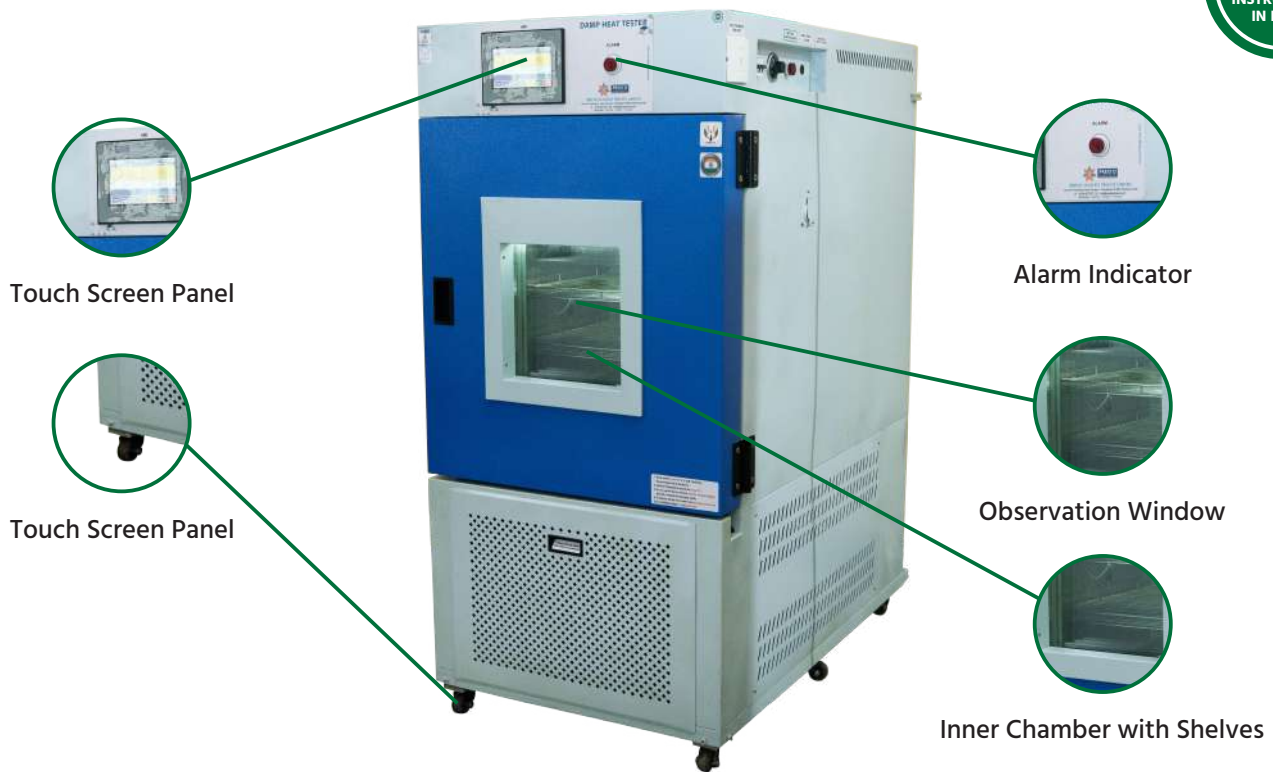


Damp Heat Tester

MOST
ADVANCED
& STABLE
INSTRUMENTS
IN INDIA



Damp Heat Tester is a specialized environmental testing device used to evaluate the durability and reliability of products, especially solar PV modules, under conditions of combined high temperature and high humidity for extended periods.

It simulates harsh, real-world tropical environments to determine if a product can withstand long-term penetration of moisture and temperature changes, thereby ensuring its longevity and quality. The test, often conducted according to standards like IEC 61215, subjects a product to elevated temperatures and relative humidity, such as 85°C and 85% RH, to identify potential degradation or failure points.

This Instrument enables testing as per **IEC 60068, ISO, JIS, and BIS standards**, ensuring global compliance. With user-friendly programmable controls, highly stable humidity regulation, and robust construction, the Damp Heat Tester delivers **repeatable and accurate results** for both cyclic and steady-state damp heat tests.

Technical Specification

Temperature	Temperature Control range	0°C to 1 00°C
	Temperature fluctuation	±0.5°C
	Cooling Rate	1 00.0°C 25.0°C Cooling rate 2.0 3.0 °C/min. 25.0°C 0.0°C Cooling rate 1.0~2.0°C/min.
	Heating Rate	-0°C 180°C Within 60 minutes 3.0 5.0°C/min
	Temperature uniformity	±1.5°C ±2.0°C
Humidity	Humidity Control range	20.0%RH 98.0%RH
	Humidity fluctuation	±1.0%RH
	Humidity uniformity	±2.0%RH
Material	Internal Material	1.2mm thickness stainless steel (SUS304)
	External Material	1.2mm thickness Cold rolled steel sheet/ powder spraying
	Heat insulating material	100mm thickness polyurethane plate + 10mm thickness mineral wool
	Fan	Centrifugal blower
	Compressor	Semi - closed Germany bock Germany Bitzer
	Condenser	Air Cooling, water cooling
	Refrigerant	R404A, R23, R509
	Evaporator	Fin -and -Tube heat Exchanger
	Heater	Nickel chromium alloy heating wire
	Humidifier	Steam humidifier
Optional feature	Standard configuration	2 Nos. 100MM pressure relief port, 4 Nos. explosion-proof chains
	C02 fire extinguisher	fire extinguishing and automatic shutdown of the machine to protect the equipment from in case of break down
	C0, H2 gas detector	When battery will produce gas, it will detect gas solubility and discharge to outdoor when it exceeds the standard
	Exhaust valve	when the test sample produces harmful gas ventilate and exhaust internally
Operating ambient temperature		RT+5-35°C