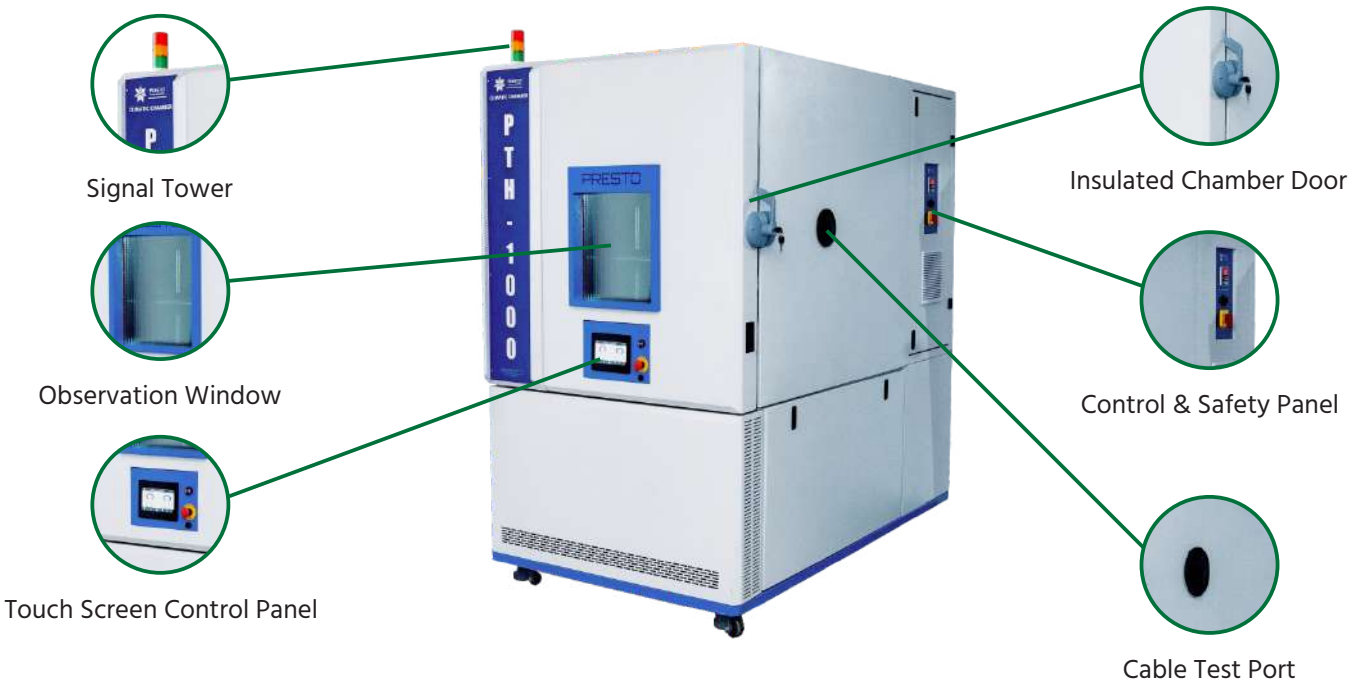
Presto Enviro
ENVIROMENTAL SIMULATION CHAMBERS | A PRESTO GROUP COMPANY

SERVING SINCE 43 YEARS
www.prestoenviro.com

Climate Test Chamber



Model :PTH Series

A climatic test chamber is a laboratory instrument to maintain speci c temperature and humidity levels to test products in real-world conditions. The system creates stable or cyclic temperature-humidity pro les, enabling engineers to observe how materials, components, and nished products respond over extended periods.
Climatic testing chambers are widely used in the automotive, electronics, aerospace, pharmaceutical, and consumer goods industries. In these industries, performance, reliability, and material stability under varying climatic conditions are critical.

By Ending possible problems like heat stress, moisture damage, material breakdown, or electronic issues early in the design process, climatic test chambers greatly lower the chances of product failures, warranty claims, and expensive recalls.

These chambers help improve overall product quality through repeated and accelerated testing, ensuring long-term durability across wide ranges of temperature and humidity.
Presto Enviro is a trusted climatic chamber manufacturer in india which compliance with global testing standards such as IEC, JIS, ASTM, ISO, and DIN, which are often mandatory for product certi cation and global market acceptance.
With these climatic chambers, years of natural weathering can be sped up to just days or weeks, saving a lot of time and money. Additionally, they provide consistent and accurate results which are crucial for research, product development, quality assurance programs.

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Features

- Temperature range from -70°C to +180°C with high accuracy (±0.5°C) for extreme thermal testing
- Humidity control range 20% to 98% RH (±2.5% RH) for precise simulation
- Advanced PLC/touchscreen control system with programmable cycles and dwell times
- Uniform air circulation via centrifugal baffes for consistent temperature & humidity distribution
- High-ef ciency refrigeration system with cascade cooling and eco-friendly refrigerants
- Corrosion-resistant SUS 304 stainless steel interior and exterior construction
- Integrated dehumidification and humidification systems with automatic water reall
- Compliance with international standards IEC 60068, ISO 16750, MIL-STD-810, ASTM, and JIS
- Safety features include over-temperature protection, low-water alarm, door interlocks, and emergency stop
- High-precision sensors for real-time monitoring of temperature, humidity, and chamber conditions

Specifications

	Model	PT-150-BTC	PT-300-BTC	PT-600-BTC	PT-1000-BTC
	Temperature range	-70℃ ~ 180℃ (A - 40℃ ~ 180℃; B - 70℃ ~ 180℃)			
	Temperature Accuracy	±0.1°C to ±1.2°C measured at control sensor Resolution: 0.1°C			
	Humidity uniformity	< 1000 Litres: ≤1.5°C. 1000 to 2000 Litres: ≤2.0°C. > 2000 Litres: ≤2.5°C.			
Temperature	Ramp rate	Heating & Cooling: 5°C/min average as per IEC 60068 3-5 for above temperature range Measured at control sensor between +155°C to -45°C in an empty chamber			
	Temperature	Heating & Cooling: 3°C/min linear from +120°C to -40°C in an empty chamber			
	Humidity control range	10.0%RH ~ 98.0%RH			
Humidity	Humidity fluctuation	± 1.0% RH			
	Humidity uniformity	± 2.0%RH			
	Internal material	SUS304 stainless steel(1.2mm)			
	External material	Cold-rolled plate(1.2mm), powder coating			
	Heat insulation	Poly urethane foam(100mm) +glass wool(10mm)			
	Heat insulation	Poly urethane foam(100mm) +glass wool(10mm)			
	Fan	Centrifugal fan (Impeller Fan)			
Material / components	Refrigeration compressor	Hermetic compressor			
	Cooling mode	Air cooling or Water cooling			
	Refrigerant	R449, R23, R508			
	Evaporator	Fin - and - Tube Heat Exchanger			
	Heater	Nickel chromium alloy heating wire			
	Humidifier	Steam humidifier			
Size	Interior size(mm) W*H*D	500*400*700	650*600*800	800*850*900	1000*1000*1000
	Outer size(mm) W*H*D	700*1670*1275	700*1880*1290	1000*1950*1400	1200*2050*1780
	Volume (L)	150L	300L	600L	1000L
	Weight (kg)	380	450	680	840
Working Temperature	+5 ~ 35℃				

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