

## Constant Temperature & Humidity Chamber



### Introduction

This type is used for testing durability of materials in temperature and humidity environments.

TCT Constant temperature & humidity chamber is popular in the market. Their structure is compact, the using cost is lower than normal Temperature & Humidity chamber.

The controller of this type is Digital controller, users can set and operate it more easily.

➤ Electronic field	➤ Communication products testing
➤ Auto parts testing	➤ Metal products testing
➤ Biological medicine products testing	➤ Others

### The advantages of TCT Constant Temperature & Humidity test chamber

➤ Famous digital controller, easier to operate, program controller for options
➤ Low temperature is start from 0℃, accuracy temperature controlling by compressor
➤ Cabinet type design, save more space for users
➤ The moving castors, easy to move anywhere
➤ 1 year warranty period for machine + 3 years free providing for spare parts.

### Production Standards

➤ GB/T5170.5-2008 . GB/T10586-2006 . GB/T2423.1-2008 . GB/T2423.2-2008 . GB/T2423.3-2006
➤ IEC60068-3-5, IEC60068-2-03, MIL-STD-810F, MIL-STD-883C, JIS-C60068
➤ JESD22-A101-B-2004, JESD22-A103-C-2004, JESD-A119-C-2004

### Common Specifications

Internal materials	SUS304 stainless steel	
External materials	High quality cold rolled steel sheet	
Temperature fluctuation	±0.5℃	
Temperature uniformity	±2.0℃	
Heating rate	2.0~3.0℃ / min (no-load)	
Cooling rate	1.0~2.0℃ / min (no-load)	
Humidity fluctuation	±2.0%RH	
Humidity uniformity	±2.0%RH	
Observation window	Non-condensation observation window with light	
Test hole	Stainless steel test hole, 1 set × 50mm diameter (options)	
Test shelf	Stainless steel test shelf, 2 pieces (height-adjustable)	
Movement wheel	4 sets movement wheels (fixation function)	
Sealing material	Silicon rubber sealing ring	
Heat insulating material	PU FOAM + Glass fiber cotton	
Air supply system	Fan	Axial flow fan + centrifugal fan
	Circulation mode	Forced air circulation
Refrigeration system	Compressor	Hermetic compressor
	Refrigerant	R404A
	Evaporator	Warped type evaporator
	Heat exchanger	BPHE
	Refrigerator oil	3GS/32H
	Cooling way	Air cooling way

Control system	Controller	Famous digital controller Program controller (Options)
	Running mode	Fix running
	Sensor	PT100
Safety function	Over-temperature protection	
	Electric leakage protection	
	Power phase protection	
	Over-current protection	
	Fuse protection	
	Over-pressure protection for compressor	
	Over-heating protection for compressor	
	Over-current protection for compressor	
	Water shortage protection	
	Ground protection	
Using environment	Temperature	$\leq +30^{\circ}\text{C}$
	Humidity	$\leq 85\% \text{ RH}$
	Atmosphere	86 ~ 106 kPa
Noise	$\leq 65 \text{ dB}$	
Water source standard	Purified water	
Power supply standard	120V/220V/240V/380V/415V, 50Hz/60Hz, Single or three phases	

Standard Model			
Model	Working room size(W×D×H)	Temperature Range	Humidity Range
HS-50L	370×270×500mm (49.9 Liters)	0 ~ +65℃	30% ~ 95% R.H
HS-100L	380×350×750mm (99.7 Liters)		
HS-150L	500×370×800mm (148 Liters)		
HS-200L	495×450×900mm (200.4 Liters)		
HS-250L	550×445×1100mm (269.2 Liters)		
HS-300L	535×450×1250mm (300.9 Liters)		
HS-350L	540×500×1300mm (351 Liters)		
HS-400L	580×510×1350mm (399.3 Liters)		
HS-450L	585×550×1400mm (450.4 Liters)		
HS-500L	605×570×1450mm (500 Liters)		

**If you have the more requirements, please contact us!**