Ultra-Low Temperature Test Chamber



Introduction

This type is used for testing specimens in Ultra-low temperature environment. We designed the low temperature as -85°C.

The controller is 7.0 inch larger color PLC controller, it can realize remote controlling, and users can set programs and sections parameters for cycle testing.

The max high temperature is +180°C, the heating rate can be up to 2-3°C/min.

4	Using Areas	ale.
>	Electrical and Electronic Factories	➤ Testing Laboratories
>	Automobile Manufacturers	 Universities of Technology
>	Aerospace Research Institutions	> Others

The advantages of TCT Ultra-Low Temperature test chamber

- Technical is best mature, production process is modularized.
- Temperature controlling is accurate, and it can run continuously.
- It uses famous components, the performance is good, the failure rate is lower.
- RS232 communication ports realize the remote controlling with PC.
- 1 year warranty period for machine + 3 years free providing for spare parts.

Production Standards

- GB/T2423.1-2001 GB/T2423.3-1993 GB/T2423.2-2001.
- 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

Internal materials	SUS304 stainless st	eel (1.2mm thickness)	
External materials	High quality cold rolled steel sheet (1.5mm thickness)		
Temperature fluctuation	±0.5°C		
Temperature uniformity	±2.0℃		
Heating rate	2.0~3.0°C / min (no-load)		
Cooling rate	1.0~2.0°C / min (no-load)		
Observation window	Non-condensation observation window with light		
Test hole	Stainless steel test hole, 1 set × 50mm diameter		
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	
an supply system	Circulation mode	Forced air circulation	
	Compressor	Hermetic compressor	
	Refrigerant	R404A	
frigeration system	Evaporator	Warped type evaporator	
neingeration system	Heat exchanger	ВРНЕ	
	Refrigerator oil	3GS/32H	
	Cooling way	Air cooling way	
	Controller	PLC touch screen controller	
	Running mode	Fix and Program running	
Control system	Program capacity	100 groups	
	Section capacity	120 sections / group	
	Sensor	PT100	
	Connect Port	RS232 communication port	
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 prote	ction for compressor	

	Water shortage protection	
	Ground protection	
Noise	≤65 dB	
Power supply standard	120V/220V/240V/380V/415V, 50Hz/60Hz, Single or three phases	

Model	Working room size(W×D×H)	Temperature Range	
CDW-100L	450×450×500mm (101.2 Liters)	-85℃ ~+180℃	
CDW-225L	500×600×750mm (225 Liters)		
CDW-350L	630×700×800mm (352.8 Liters)		
CDW-500L	800×700×900mm (504 Liters)		
CDW-800L	800×1000×1000mm (800 Liters)		
CDW-1000L	1000×1000×1000mm (1000 Liters)		
If you have th	ne more requirements, please contact us!	1240	