

Comprehensive Environmental Test System

Description:

The chamber can simulate temperature, humidity and vibration simultaneously to conduct a combined test by matching up with a vibration shaker.

Applied tests: high temperature test, low temperature test, temperature & humidity test, high–low temperature test, high-low temperature & humidity test, environment stress screening test, reliability evaluation and acceptance test.

Features:

- Fast temperature changing rate with maximum mechanical refrigeration rate up to 15°C/min;
- Assisted with a liquid nitrogen refrigeration system, the cooling rate can reach 30 °C/min;
- The electronic expansion valve can control the cooling capacity to realize stepless regulation of temperature, which is energy saving;
- High control precision with fluctuation $\leq 0.5^{\circ}\text{C}$ and temperature deviation $\leq \pm 1.5^{\circ}\text{C}$;



* Main technical parameters (ambient temperature +25 °C and circulate water temperature +25 °C, no specimen)

Model		CW/T0670W5	CW/T1270W5	CW/T2770W5
with humidity-CW		CW/T0670W10	CW/T1270W10	CW/T2770W10
without humidity-CT		CW/T0670W15	CW/T1270W15	CW/T2770W15
Chamber volume (L)		613	1200	2730
Performance	Temperature range	-70 °C ~ +150 °C		
	Humidity range (only humidity type)	(20 ~ 98) %RH/ (20 ~ 85) °C		
	Temp. fluctuation	$\leq 0.5^{\circ}\text{C}$ (according to GB/T5170.2-2008)		
	Temp. deviation	$\pm 1.5^{\circ}\text{C}$		
	Humidity deviation (only humidity type)	$\pm 3.0\%RH$ (humidity > 75%RH), $\pm 5.0\%RH$ (humidity $\leq 75\%RH$)		
	Temperature change rate	5/10/15 °C/min (The whole process is average with standard load , and measured at the control point of inlet area under -55 °C ~ +70 °C)		
	Standard load	15kg aluminium ingots, 350W heating power	50kg aluminium ingots, 700W heating power	100kg aluminium ingots, 1000W heating power
Internal dimensions (mm)	W	800	1000	1300
	H	1100	1200	1500
	D	700	1000	1400
Power supply	380V (three phase four wires + protective grounding wire)			
Condensing method	Water-cooled			