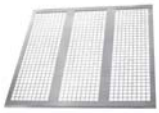
Comprehensive Environmental Test System

Description:

The chamber can simulate temperature, humidity and vibration simultaneously to conduct a combined test by matching up with a vibration shaker.
Fast temperature changing rate with maximum mechanical refrigeration rate up to 15℃/min, if assisted with a liquid nitrogen refrigeration system, the cooling rate can reach 30 ℃/min.
The electronic expansion valve can control the cooling capacity to realize stepless regulation of temperature, which is energy saving.
High control precision, fluctuation ≤ 0.5℃, temperature deviation ≤ ±1.5 ℃;
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

Main technical parameters (ambient temperature ±25 ℃ and circulate water temperature ±25 ℃, no specimen)

Standard configuration	Cable port (φ 100mm) *each at left and right side , with grey soft rubber plug and cover	Hour meter * one	Viewing window (transparent electric heating insulating glass) *one	Two sets of sample shelves	USB interface * one	Test sample power supply control terminal *one
						

Model with humidity---CW without humidity---CT		CW/T0670W5 CW/T0670W10 CW/T0670W15	CW/T1270W5 CW/T1270W10 CW/T1270W15	QW/T2770W5 QW/T2770W10 QW/T2770W15
Nominal interior volume (L)		613	1200	2730
Performance	Temperature range	-70 ℃ ~ +150 ℃		
	Humidity range (only humidity type)	(20 ~ 98) %RH/ (20 ~ 85) ℃		
	Temperature fluctuation	≤ 0.5 ℃ (according to GB/T5170.2-2008)		
	Temperature deviation	±1.5 ℃		
	Humidity deviation (only humidity type)	±3.0%RH(humidity > 75%RH), ±5.0%RH (humidity ≤ 75%RH)		
	Temperature change rate	5/10/150 ℃/min (The whole process is average with standard load , and measured at the control point of inlet area under -55 ℃ ~ +70 ℃)		
	Standard load	15kg aluminium ingots, 350W heating power	50kg aluminium ingots 700W heating power	100kg aluminium ingots 1000W heating power
Inside 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		