

The SM-VTH-XXX-CC family of High and Low Temperature, Humidity and Altitude Test Chambers are composed of a pressure containing box shell and insulation structure with Vacuum, Temperature and Humidity components

Altitude Test Chamber Applications:
Electrical, electronic, military industry and household products according to GB, GJB and IED Standards for high and low temperature, humidity, thermal and low pressure tests.



Sanwood High and Low Temperature, Humidity and Altitude Test Chamber - SM-VTH-XXX-CC Family Specifications

Model		SM-VTH-250-CC	SM-VTH-500-CC	SM-VTH-1000-CC	SM-VTH-2000-CC
Temperature	Temperature control range	-70℃~180℃ G8 (A:0℃~180℃;B: -20℃~180℃; C: -40℃~180℃;D:-70℃~180℃)			
	Temperature fluctuation	±0.5℃			
	Cooling rate	180.0℃~-70.0℃ Within 120mins (1.0~2.0℃/min)			
	Heating rate	-70.0℃~180.0℃ Within 100mins (2.0~3.0℃/min)			
	Temperature uniformity	±1.5℃ (-40.0℃~100.0℃) ±2.0℃ (100.1℃~180.0℃or-40.0℃~-70.0℃)			
Pressure	Pressure range	Normal pressure~0.5kpa (500pa)			
	Pressure error	±2kpa (>40kpa),±5%(2kpa~40kpa),±0.1kpa(<2kpa)			
	Depressurization time	Normal pressure~1kpa, about 30 mins;			
	Pressure recovery time	<10kpa/min			
Humidity	Humidity control range	20.0%RH~98.0%RH(work under atmospheric humidity)			
	Humidity fluctuation	±2.0% RH			
	Humidity uniformity	±5.0%RH			
Material / components	Internal material	Adopt 2mm thickness stainless steel plate (SUS304)			
	External material	Adopt 10mm thickness cold rolled steel plate fully welded / powder sprayed			
	Heat insulating material	100mm thickness polyurethane plate + 10mm thickness mineral wool			
	Fan	Centrifugal blower			
	Compressor	France Tecumseh, Germany Bock, Germany Bitzer			
	Condenser	Air cooling, water cooling			
	Refrigerant	R404A, R23, R508			
	Evaporator	Fin - and - Tube Heat Exchanger			
	Heater	Nickel chromium alloy heating wire			
	Humidifier	Steam humidifier			
Size	Inner size(mm)W*H*D	550*600*700	700*800*900	1000*1000*1000	1400*1200*1200
	Outer size(mm)W*H*D	2000*1060*1900	2500*1260*2050	2720*1460*2130	3150*1650*2050
	Volume (L)	250L	500L	1000L	2000L
Operating ambient temperature		+5 ~ 35℃			
Safety		Adjustable over temperature protection, heater dry burning over temperature protection, humidifier dry burning, over temperature protection, automatic stop operation when troubles occur. Leakage protection function cuts off main power supply			
Power supply		380V AC 50/60Hz			
Controller		SANWOOD SH5600:Equipped with RS232 port; (7.0 inch controller)USB data export			