



Temperature & Humidity test chamber (CE , ISO standards)



Applications
● Quality testing Laboratory
● University Laboratory
● Research Laboratory
● Components factories
Functions
● Simulate the temperature environment
● Simulate the humidity environment
● Temperature & Humidity test cycle
● Programmable controlling
● PC connection

Strengths
● High quality famous components, assure the reliability performance
● Touch screen input, control easily and conveniently

Common Specifications	
Temperature range	-40°C ~ +180°C
Temperature fluctuation	±0.5°C
Temperature uniformity	±2.0°C
Heating rate	2~3°C/min
Cooling rate	1.0~2.0°C/min
Cooling way	Air cooling
Compressor	Tecumseh
Refrigerant	R404A
Fan	Wheel shaft fan
Heater	Nichrome heater
Temperature sensor	PT100
Internal materials	SUS304 stainless steel
External materials	Cold rolled steel plate with electrostatic powder spraying
Insulating materials	PURF
Observation window	Double-layer tempered glass with lamp
Test shelf	Stainless shelf with 2 pcs
Test hole	Stainless material with 1 pc, diameter is 5.0 inch
Controller	PLC programmable controller / touch screen input
Controller size	5.7 inch
Controller resolution	Temperature value: 0.01°C Humidity value: 0.01%R.H



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	Time value: 0.1min
Program setting	120 groups programs 1200 sections for every programs Max setting time: 999h59min Max cycle times: 999 times
PC communication	RS232 port / RS485 port
Protection function	Over-load, Over-heat, Over-pressure, Over-current, Short-circuit
Power supply standard	According to the customers' requirements

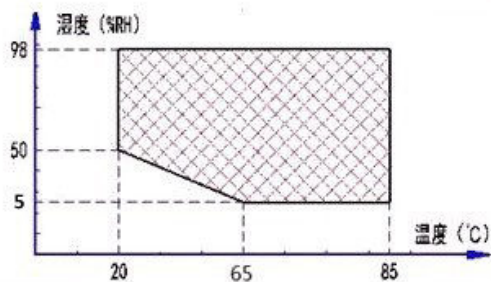
GDWS series (Temperature & Humidity test)

Model	GDWS-500B
Internal size(W×D×H)	800×700×900mm
External size(W×D×H)	1500×1400×2250mm
Capacity	500 Liter

Common humidity functions

Humidity range	10% ~ 98%R.H
Humidity fluctuation	±2.0%R.H
Humidity uniformity	±2.0%R.H
Humidity sensor	Dry and wet bulb sensor
Water supply	Purified water (resistance >500Ω)
Water tanker	Built-in water storage tank

Temperature & Humidity graph



Humidity sensor





Main components

Temperature controller	TEMI-880
Compressor	Tecumseh French/Copeland Germany
Oil Separator	ALCO Italy
Plate heat exchanger	ALFA LAVAL Sweden
Pressure switch	Danfoss USA
Dry filter	Sporlan USA
Magnetic valve	CASTO Italy
Wire protection switch	Schneider
AC Contactor	Schneider
AC relay	Schneider
Interior	SUS304 stainless steel China
Refrigerant	Dupont USA
Thermal overload relay	Schneider
Buzzer	Schneider
Fluorescent Lamp	Philips
Control transformer	CHINT

If you need the technical support, please contact: support@tri-tronixs.com