



Climate 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

- 5% R.H lower humidity test point
- High quality famous components, assure the reliability performance
- Touch screen input, control easily and conveniently

GDW series (Just temperature test)

Model	GDW-100A/B/C	GDW-225A/B/C	GDW-350A/B/C
Internal size(W×D×H)	450×450×500mm	500×600×750mm	500×700×1000mm
Capacity	100 L	225 L	350 L

Model	GDW-500A/B/C	GDW-800A/B/C	GDW-1000A/B/C
Internal size(W×D×H)	800×700×900mm	800×1000×1000mm	1000×1000×1000mm
Capacity	500 L	800 L	1000 L

Common Specifications

Temperature range	A: -20℃ ~ +180℃ B: -40℃ ~ +180℃ C: -70℃ ~ +180℃
Temperature fluctuation	±0.5℃
Temperature uniformity	±2.0℃
Heating rate	3~4℃/min
Cooling rate	1~2℃/min
Cooling way	Air cooling
Compressor	Tecumseh or Copeland
Refrigerant	R404A



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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 50mm
Controller	PLC controller / touch screen input
Controller size	5.7 inch or 7.0 inch
Controller resolution	Temperature value: 0.01°C Humidity value: 0.01%R.H 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 / USB port(Optional)
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-100A/B/C	GDWS-225A/B/C	GDWS-350A/B/C
Internal size(W×D×H)	450×450×500mm	500×600×750mm	500×700×1000mm
Capacity	100 L	225 L	350 L

Model	GDWS-500A/B/C	GDWS-800A/B/C	GDWS-1000A/B/C
Internal size(W×D×H)	800×700×900mm	800×1000×1000mm	1000×1000×1000mm
Capacity	500 L	800 L	1000 L

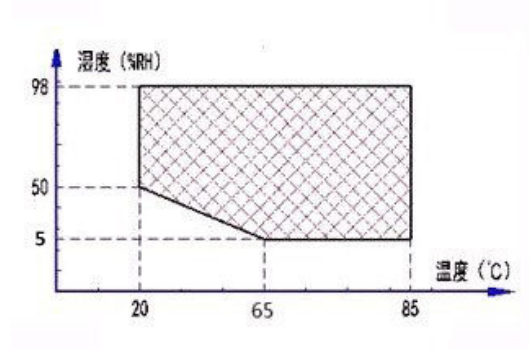
Common humidity functions (Others common specifications are the same as GDW series)

Humidity range	5% ~ 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



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Temperature & Humidity graph



Humidity sensor



Main components

Temperature controller	C-300 / TEMI880 / TEMI980
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