

Bench-Top Type Temperature(&Humidity)Chamber

The best partner for research and development

Ten styles and multiple performance specifications

- ▶ There are ten models to choose from according to the volume and temperature and humidity range.
- ▶ Can meet the temperature and humidity test requirements of -60/-40~+150°C / 30%~95%, 22.5L, 64L.
- ▶ The Heat up & pull down of GSH/U-24-5V can reach 5.0°C/min (Temp range: -21°C~+131°C).
- ▶ in a small and light structure that can even fit on a desk.
- ▶ Option "temperature range extends up to 180 °C", can reach high temperature control until 180°C.

Compact design, Small body with large volume

- ▶ Easy to move, multiple units can be stacked by racking stand, and in a small and light structure that can even fit on a desk.

Can provides highly accurate temperature/humidity environment

- ▶ Balanced Temperature (&Humidity)Control system(BTHC system)and PID control function.
- ▶ Standard program instrumentation can suit various applications.



<http://www.gd-espec.com/>



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Bench-Top Type Temperature(&Humidity)Chamber

Interface (option)for device communication can be selected between RS-485, GPIB,Web Lan and RS-232C

Cable port on right sides (φ50) as standard to allow easy wiring access.

Color LCD touch screen controller, easy to operate

►Programmed operation allows storing 9 program operation patterns, each up to 99 steps. temperature ramp settings and a maximum of 999 repeat cycles.

►Multilingual display:Can change the display language at any time from the language icon.

►USB output of trend graph data.

Viewing window equipped as standard(Except GSH/U-24-5V/24V model)

Allows to observe and check the status of test specimen during a test.

*More detail please see HP:<http://www.gd-espec.com/en/>



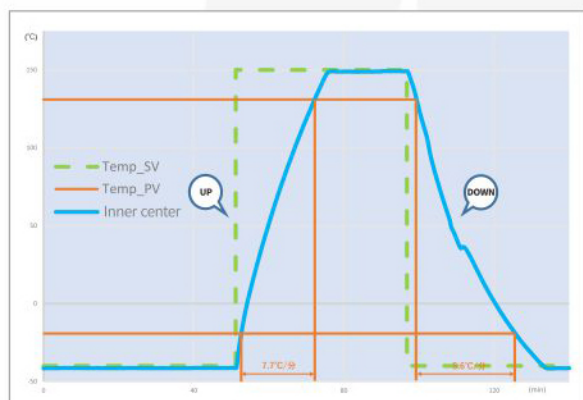
Note:GSH/U-24-5V without Viewing window

Humidity Type-Model ※2		GSH-24V	GSH-24-5V	GSH-26V	GSH-64V	GSH-66V	
System		Balanced Temperature Humidity Control (BTHC) System					
Allowable ambient conditions		Ambient Temperature: +5~+35°C; Relative Humidity: Up to 75%rh					
Performance ※	Temp&Hum Range※1	-40°C~+150°C / 30%~95%	-40°C~+150°C / 30%~95%	-60°C~+150°C / 30%~95%	-40°C~+150°C / 30%~95%	-60°C~+150°C / 30%~95%	
	Temp.fluctuation※1	±0.3°C(-40°C~+100°C) ±0.5°C(+100.1°C~+150°C)	±0.3°C(-40°C~+100°C) ±0.5°C(+100.1°C~+150°C)	±0.3°C(-60°C~+100°C) ±0.5°C(+100.1°C~+150°C)	±0.3°C(-40°C~+100°C) ±0.5°C(+100.1°C~+150°C)	±0.3°C(-60°C~+100°C) ±0.5°C(+100.1°C~+150°C)	
	Temp.variation※1	±2.0°C(-40°C~+100°C) ±2.5°C(+100.1°C~+150°C)	±2.0°C(-40°C~+100°C) ±2.5°C(+100.1°C~+150°C)	±2.0°C(-60°C~+100°C) ±2.5°C(+100.1°C~+150°C)	±2.0°C(-40°C~+100°C) ±3.0°C(+100°C~+150°C)	±2.0°C(-60°C~+100°C) ±3.0°C(+100°C~+150°C)	
	Humid.fluctuation※1	±2.5%					
	Temp.rate of Change (IEC60068-3-5)	Heat Up: 3.2°C/min Pull Down : 2.1°C/min (Range-21°C⇄+131°C)	Heat Up: 5.0°C/min Pull Down : 5.0°C/min (Range-21°C⇄+131°C)	Heat Up: 2.7°C/min Pull Down : 1.5°C/min (Range-39°C⇄+129°C)	Heat Up: 2.4°C/min Pull Down : 1.1°C/min (Range-21°C⇄+131°C)	Heat Up: 2.4°C/min Pull Down : 1.1°C/min (Range-39°C⇄+129°C)	
	Temperature Extremes Achievement Time (IEC60068-3-5)	Heat Up: +20°C to +150°C < 40min Pull Down : +20°C to -35°C < 60min※3	Heat Up: +20°C to +150°C < 35min Pull Down : +20°C to -40°C < 20min	Heat Up: +20°C to +150°C < 40min Pull Down : +20°C to -60°C < 100min	Heat Up: +20°C to +150°C < 40min Pull Down : +20°C to -40°C < 70min	Heat Up: +20°C to +150°C < 40min Pull Down : +20°C to -60°C < 120min	
	Noise Level (JIS-Z-8731:1999 A)	42dB~50dB	42dB~54dB	42dB~54dB	48dB~53dB	48dB~53dB	
Construction	Exterior	Galvanized cold-rolled steel sheet, hot-rolled steel sheet					
	Test Area	Stainless steel plate:18—8 Cr—Ni stainless steel plate, 2B polish					
	Heater	Nichrome strip wire heater					
	Humidifier	Sheathed heater (18-12-2.5 Cr-Ni-Mo-LC stainless steel, surfaceevaporation type)					
	Cooler	Plate-fin cooler (also works as a dehumidifier)					
	Air Circulator	Axial fan					
	Viewing window	NO	NO	YES	YES	YES	
	Cable port	Right side φ50 mm×1					
	Water supply	Water supply	Pump water supply system				
		Water Tank	5L				
Cooling System	System	Mechanical single-stage refrigeration system	Mechanical double-stage refrigeration system	Mechanical double-stage refrigeration system	Mechanical double-stage refrigeration system		
	Refrigerator	Rotary compressor	Rotary compressor	Reciprocating compressor	Reciprocating compressor	Reciprocating compressor	
	Capacity (kW)	400	400×400	400×400	400×400	400×400	
Inside Dimensions (W×H×Dmm)		300×300×250			400×400×400		
Outside Dimensions (W×H×Dmm)		440×710×696[747]	440×710×786[837]		540×750×921[983]		
Volume (L)		22.5			64		
Weight (Kg)		85	108	113	139	139	

※1The temperature chamber's performance values are based on GB/T5170.2, and IEC60068-3-5. And humidity chamber's performance values are based on GB/T5170.5 and IEC60068-3-6. Performance figures are given for a +23°C ambient temperature, relative humidity 65±20% RH, rated voltage, with no specimens inside the test area.

※2The information of temperature type chamber GSH-24V, GSH-24-5V, GSH-26V, GSH-64V, GSH-66V, please see HP:<http://www.gd-espec.com/en/> for more detail.

※3The time from +20°C to -40°C of the effective space center is within 100 minutes. (Greatly affected by ambient temperature, The recommended ambient temperature is below 28°).



Note: GSH-24-5V actual test data(with no specimens)

Heat Up: 5°C/min
Pull Down: 5°C/min
(Range -21°C⇄+131°C)



Multiple chamber can be stacked by racking stand, efficient use of space.