

THCC - 3210

Temperature Humidity Climate Chamber



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

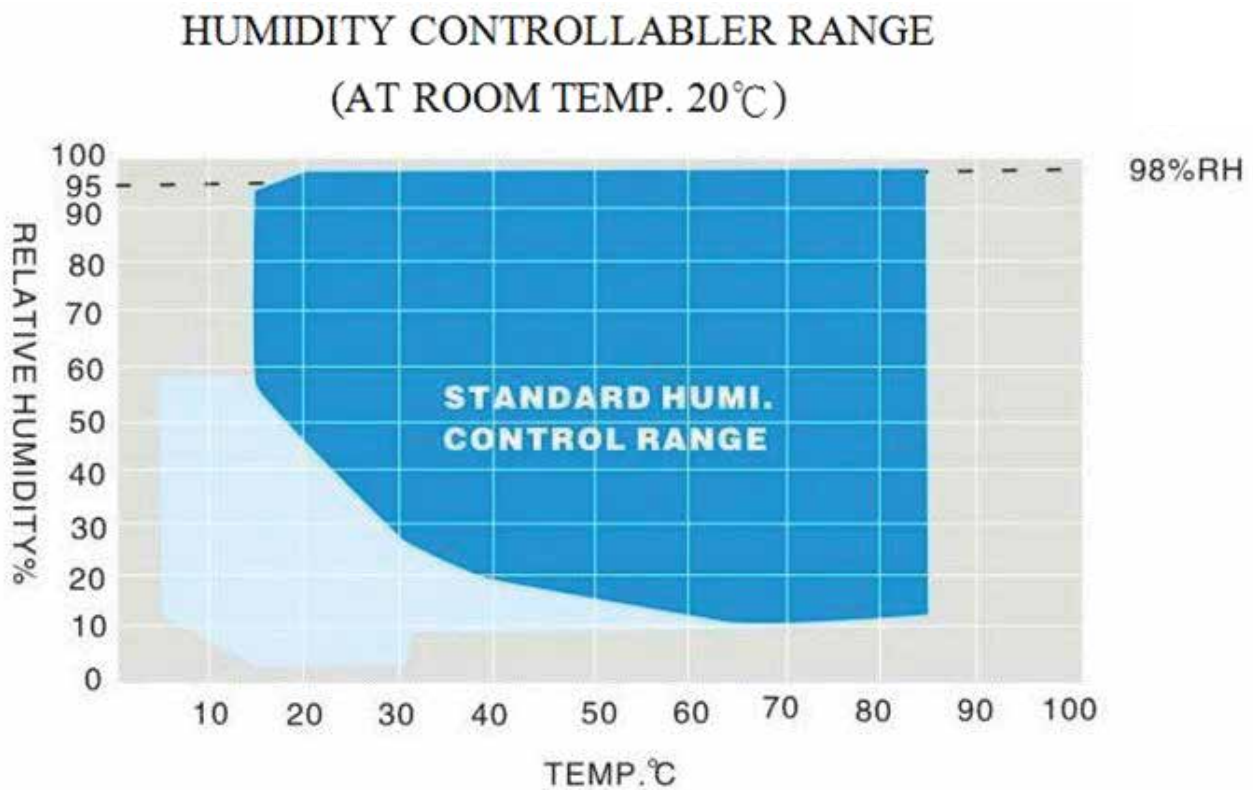
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►► Uses

This equipment can simulate different environment condition. It's appropriate for testing material performance, such as resist heat, resist dry, resist humidity and resist cold. That can define performance of material.

►► Characteristics

1. Use the high precision microcomputer touch temperature and humidity controller with high stability of platinum resistance to temperature and wind speed in the circulatory system of temperature and humidity test.
2. control temperature&humidity well-distributed, precisely and steady.
3. Completely independent system separate for testing in high temperature, low temperature and constant temperature&humidity environment.



►► Specification

Model		THCC-3210
Inner Size W×H×D(cm)		100×100×100
External Size W×H×D (cm)		158×195×168
Volume (L)		1000L
Temp&Humi Control Range		Temp. Range: A: 0°C~100°C Humi.range: RH40%-95% B: 10~60°C C: -60°C~150°C (Other temperature and humidity range can be customized)
Temp&Humi Fluctuation		±0.5°C; ±2.5%RH
Temp&Hum Departure		±0.5°C-±2°C; ±3%RH (>75%RH) ; ±5%RH(≤75%RH)
Controller Resolution		±0.3°C; ±2.5%RH
Controller Brand		Youyi
Material	Inwall	SUS steel plate
	Housing	SUS steel plate surface Coating
	Heat Insulator	resistance to high temperature, high chlorine acid b vinegar foam insulation materials
Aie Circulation Way		centrifugal fan-broadband type force air circulation
Refrigeration Way		cascade type multiple refrigeration
Refrigerater		fully enclosed piston compressor Taikang France
Refrigerants		R404Aor American dupont environmental protection cold media (R23+R404)
Condensing Way		Air-cooling
Heater		nickel chrome heating wire heater
Humidifier		semi-closed steam
Water Supply Way		automatic cycle water supply
Standard Accessories		*50mm test hole on the left 1PCS *PL inner lamp 1PCS *Adjustable clapboard2PCS *Humidity cloth.....1Bag *Fuses 3PCS *Power line 1PCS *Software CD1PCS *Operation manual..... 1PCS
Safety Devices		*Leakage current *Overload *Compressor overload *Over temperature *Ultra-wet/dry *Humidification temperature protection.
Power		380V or 220V AC±10% 50/60Hz

►► Structure Instruct

Heating and humidifying system

Heater

Spiral nichrome tubular electric heating element heater, High accuracy temperature fluctuation, and with long lifetime!

Humidifier

Use shallow slot method to humidify. Humidity measurement use wet and dry bulb method.



Secondary protection

Over-temperature protector: (protect the sample and the chamber) Humidifier empty burn preventer (protect the humidifier)

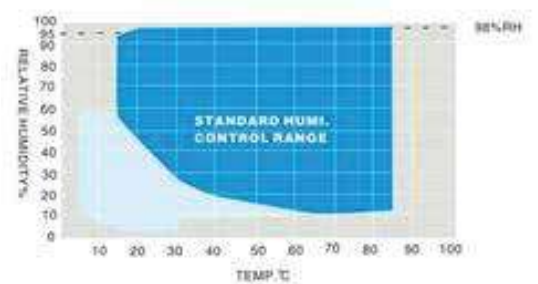
Temp & Humi. Control Range (Specific test requirements customize)

1.Choice of wind circulation way: Forced air supply

If you have requirements on wind supplying way, this kind of air supply is the best choice.

2. Choice of water supply system: RO (Reverse osmosis)

Our equipment use pure water when doing humidity test, can automatically add water to make test more convenient.



3. Polymer film/wheel dehumidification system

If you need to do low temperature and low humidity test for long time, then honeycomb chemistry dehumidifier system will be your best choice. It can make to 10°C 10%RH or lower.

4. LN2/LCO2 fast cooling system

We offer all kinds of imported professional LN2/LCO2 solenoid valve and related controlling system to meet your requirements of fast heating and cooling.

Heating and humidifying system

5. Equipped with glass door and operation hand hole on the door

If you need to move or open the test sample during testing, to equip a glass door and operation hand hole to avoid effect to test condition when open the chamber door.

6. Recorder to get test data in time

If need to record different points environmental and sample temperature, to equip a temperature recorder is a best choice.



Chamber structure

Metal plate material

The inner and outside material is SUS mirror surface corrosion resistant plate, inner chamber two sides have sample Rail frame, it has the adjustable hang strip, heat preservation and heat insulation at least 10cm with hardness polyamine foaming.

It has the high quality bakelite and glass fibre door frame cutting off the heat conduction. Heat-proof quality is quite good, the door airtight seal strip is the two-way wide high-temperature resistance silicon foaming.

Test space blowing-in circulate

Mature blowing-in system use high temperature resistance multiple-blade wind wheel which is drove by the motor, the upside blade blow the wind in and the downside return the wind. When the temperature is -70-100°C, the error will be less 2°C



Controller system

Use the Tato controller which is with low energy consumption (20W), the control system accuracy is $\pm 0.3^{\circ}\text{C}$.

High mark screen

5.7 inch LCD color screen with interactive parameter input method, resolution ratio is 800*480.

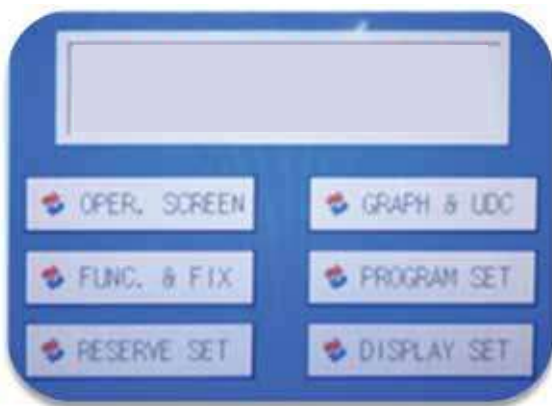
Big memory capacity

120 groups / 1200 section all repeatedly: maximum is 999 (can repeated unlimited), part repeatedly: support maximum 99 PC-Link, MODBUS (ASCII, RTU). And has fact curve with temperature and humidity.

Convenient and fast connect the computer

Controller use R232 port, if you monitoring the history curve and need to playback the data, you can use editing operation.

►► Controlling interface




SEG	TEMP	HUMI	TIME	TS1	TS2	TS3	TS4
01	25.00	40.0	0.01	00	00	00	00
02	25.00	40.0	1.00	00	00	00	00
03	60.00	60.0	0.01	00	00	00	00
04	60.00	60.0	1.00	00	00	00	00

Buttons at the bottom: PROG, PATTERN SET, PROG NO, 001, CUR, PCOM, TUSER, DEL.



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 **Analytical**[®]
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
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