



Characteristics:

THC Series of Programmable Constant Temperature and Humidity Testing Chamber are designed to accurately produce the temperature and humidity conditions required for applications such as stability studies, package testing, TAPPI, MIL-SPEC and vapor transmission

It is applied to test for the industries of pharmaceutical development and manufacturing, electronic components, food, semiconductor, paper and pulp, and wherever precise humidity and temperature replications are required.

THC microprocessor controller TH500 is a user-friendly system that provides optimum accuracy and control. The display is equipped with direct readings in both

temperature and humidity. It also features 100--segment programming for automatic cycling and ramping and soaking excursions. High-low or deviation alarms as well as digital communications ports are standard features.

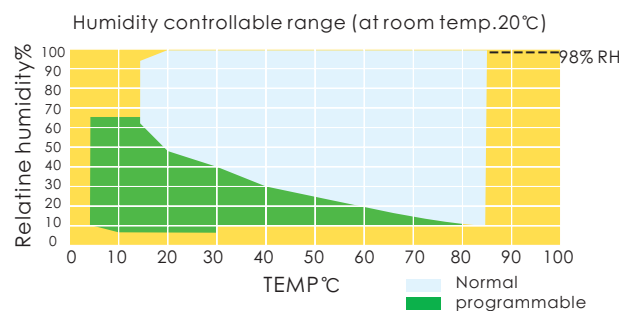


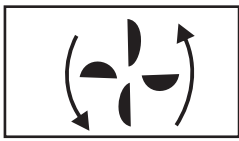
Diagram of Humiture range

Technical Specifications

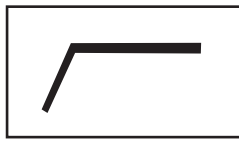
Mode		THC-80A	THC-150A	THC-416A	THC-800A	THC-1000A	THC-80B	THC-150B	THC-416B	THC-800B	THC-1000B
Order#		211-111	211-121	211-131	211-141	211-151	211-211	211-221	211-231	211-241	211-251
Internal Dimensions (mm)	W	400	500	700	1000	1000	400	500	700	1000	1000
	H	500	600	850	1000	1000	500	600	850	1000	1000
	D	400	500	700	800	1000	400	500	700	800	1000
External Dimensions (mm)	W	930	1030	1230	1530	1530	930	1030	1230	1530	1530
	H	1310	1410	1660	1810	1810	1310	1410	1660	1810	1810
	D	810	910	1210	1310	1510	810	910	1210	1310	1510
Volume (L)		80	150	416	800	1000	80	150	416	800	1000
Temperature Range		0°C~100°C (150°C)					-20°C~100°C (150°C)				
The Evenness Of Humiture Distribution		±0.5°C ±3%RH			±1°C ±5%RH		±0.5°C ±3%RH			±1°C ±5%RH	
Temperature Rising Speed		0°C~100°C about 20min					-20°C~100°C about 35min				
Temperature Falling Speed		20°C~0°C about 20min					20°C~-20°C about 45min				
Freezing System		1PC of fully sealed air cooling system									
Humidity Range		20%~98%RH									
Humiture Stability		±0.2°C ±2%RH									
Humiture Adjustment		Auto balancing temperature and humidity adjustment									
Outside Materials		Stainless steel sus # 304									
Inside Materials		Stainless steel sus # 304									
Humidifying System		Surface evaporation, humidifier with stainless steel heating and equipped with a power off device when humidifier wants water and an over-temperature protection device.									
Thermal Material		Heat preserved by rock wool and hardened pu foaming									
Heating System		Heater with stainless steel dissipation									
Circulatory System		Convection by fan forced circulatory system									
Dehumidifying System		Freezing dehumidifying system									
Water Supplying System		The advance water tank, fully automatic water supplying control, device for reuse through recovery and circulatory filtering plus a warning device for insufficient water.									
Safety Devices		Leakage and overload protection device, compressor overload protection device, power off device for over-temperature and over humidity, water insufficient protection device, over-temperature protection device for humidifier and the protection device for limit of temperature.									
Standard Delivery		Two sets of the adjustable SS plate, the vacuum glass windows, the test hole, a lamp inside the operation room and a movable indicator.									
Optional Accessories		Recorder									
Power		AC220V/50, AC110V/60HZ									

Technical Specifications

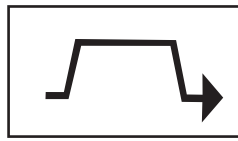
Mode		THC-80C	THC-150C	THC-416C	THC-800C	THC-1000C	THC-80D	THC-150D	THC-416D	THC-800D	THC-1000D
Order#		211-311	211-321	211-331	211-341	211-351	211-411	211-421	211-431	211-441	211-451
Internal Dimensions (mm)	W	400	500	700	1000	1000	400	500	700	1000	1000
	H	500	600	850	1000	1000	500	600	850	1000	1000
	D	400	500	700	800	1000	400	500	700	800	1000
External Dimensions (mm)	W	930	1030	1230	1530	1530	930	1030	1230	1530	1530
	H	1310	1410	1660	1810	1810	1310	1410	1660	1810	1810
	D	810	910	1210	1310	1510	810	910	1210	1310	1510
Volume (L)		80	150	416	800	1000	80	150	416	800	1000
Temperature Range		-40°C~100°C (150°C)					-70°C~100°C (150°C)				
The Evenness Of Humiture Distribu tion		±0.5°C ±3%RH			±1°C ±5%RH		±0.5°C ±3%RH			±1°C ±5%RH	
Temperature Rising Speed		-40°C~100°C about 40min					-70°C~100°C about 60min				
Temperature Falling Speed		20°C~-40°C about 60min					20°C~-70°C about 90min				
Freezing System		2PCS of fully sealed air cooling system					3PCS of fully sealed air cooling system				
Humidity Range		20%~98%RH									
Humiture Stability		±0.2°C ±2%RH									
Humiture Adjustment		Auto balancing temperature and humidity adjustment									
Outside Materials		Stainless steel sus # 304									
Inside Materials		Stainless steel sus # 304									
Humidifying System		Surface evaporation, humidifier with stainless steel heating and equipped with a power off device when humidifier wants water and an over-temperature protection device.									
Thermal Material		Heat preserved by rock wool and hardened pu foaming									
Heating System		Heater with stainless steel dissipation									
Circulatory System		Convection by fan forced circulatory system									
Dehumidifying System		Freezing dehumidifying system									
Water Supplying System		The advance water tank, fully automatic water supplying control, device for reuse through recovery and circulatory filtering plus a warning device for insufficient water.									
Safety Devices		Leakage and overload protection device, compressor overload protection device, power off device for over-temperature and over humidity, water insufficient protection device, over-temperature protection device for humidifier and the protection device for limit of temperature.									
Standard Delivery		Two sets of the adjustable SS plate, the vacuum glass windows, the test hole, a lamp inside the operation room and a movable indicator.									
Optional Accessories		Recorder									
Power		AC220V/50, AC110V/60HZ									



Forced Circulation



Constant Control



Programmable Control



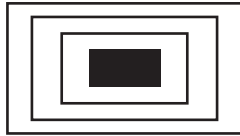
Temperature Bit



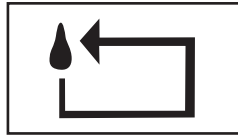
PID Control



The Freezer



With Sight Hole



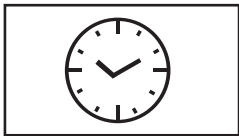
Application Water circulation



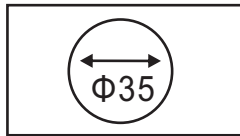
Micro Computer Control



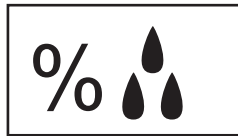
Total Timer



Timer



With Test Hole



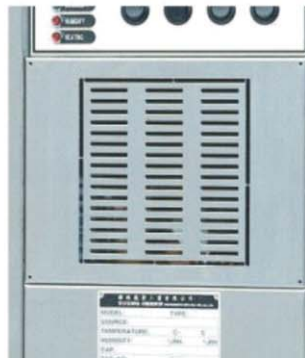
Humidity Control



Observing Windows:
Defrost by heating in large scale so spray from-ing will not occur under high temperature and humidity, and also no condensate appears under low temperature, and in the meantime, the high bright PL lamp is mounted for the windows.



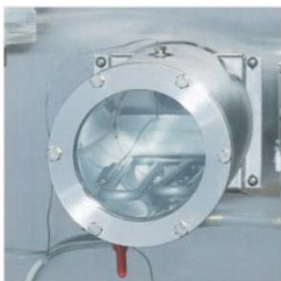
Water tank:
Used for water storage and for reuse by recovering the used water, It is placed sown right in front of the machine for ease to fill the water and spare the space.



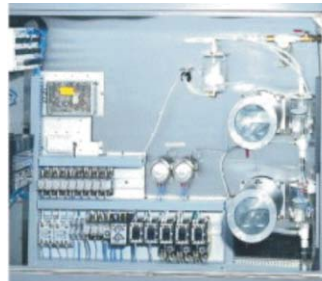
Recorder's board:
Used for water storage and for reuse by recovering the used water, It is placed down right in front of the machine for ease to fill the water and spare the space.



Recorder:
Dot type temperature and humidity recorder in japanese system



Humidifier:
We adopt the big window in order to be easy to watch and clean, With the unique design that the window mounted out of the test chamber.it will affects the test chamber to the lowest when humidifying



Control room:
The wiring configuration adopts the middle relay to control the output . It is simple, flexible, and easy to operate, and in addition to this , there is a power off switch for emergence.



Inner chamber:
It is easy to adjust the space up and down with the adjustable SS shelf.



Wet bulb cup:
It is dismountable to clean the cup when dirty things accumulated in it thus to keep the humidity to the normal state.



Liquidometer:
It controls the height between the humidifier and the wet bulb cup with a power off device when humidifier wants water.



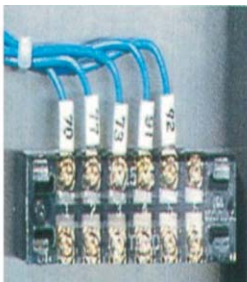
Thermal expert:
The heat dissipating system is dismountable, and under the machine there is a radiator opening of the cooling system which is designed for easy watching and cleaning.



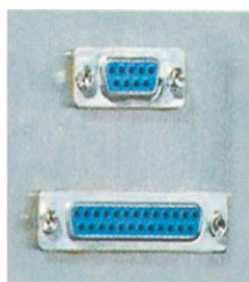
pump for water supplying:
Used for water recovery and reuse after filtering so as to save the amount of water consumed.



Filter:
Used for water recovery and reuse after filtering so as to save the amount of water consumed.



Computer link:
Connected to the computer with the H-TYPE to monitor, program and to operate.



Computer connection:
Interface RS232 mounted may be used for monitoring, programming and the terminal strip of the time signal.



Low temperature dehumidifiers
are the Munters imported from foreign country.



Ro reverse osmosis:
The water filtered by means of Ro reverse osmosis is the most suitable water cleanest and purest for human being



Cooling media of environment protection
Adopt the cooling media of environment protection



Switching board
Leakage breaker and overtemperature protection device



Emergency stop
The emergency stop and alarming unit when test finished.



Movable wheel:
The bottom is made of SS fully closed, with the movable wheel you may move the machine very conveniently.