

## TEMPERATURE AND HUMIDITY STANDARD CHAMBERS

- Suitable for metrology, scientific research, product testing, etc.
- A specialized calibration device, designed for testing thermohygrometers, temperature and humidity sensors, temperature and humidity transmitters, etc.
- The temperature control adopts thermostatic heating technology with liquid medium, ensuring more stable temperature and more uniform thermal field
- The humidity control adopts a split-flow humidity generation technology, which reduces stabilization time and improves calibration efficiency
- HD touchscreen control, supporting multi-touch operation, with intelligent stability indication and real-time automatic fluctuation calculation
- Equipped with multi-segment programming function, one-touch start for automatic execution
- Support automatic recording of temperature and humidity curve data and exporting data to a USB drive
- Multiple safety protections: overheat protection, low liquid level alarm, compressor overheat alarm, start-stop protection, etc.



THS-A101-U

### SPECIFICATION

Part No.	THS-A101-U	THS-A102-U	THS-A103-U
Temperature range	-5°C~65°C		-20°C~65°C
Temperature resolution	0.01°C		0.01°C
Humidity range	10%RH~98%RH (20°C)		10%RH~98%RH (20°C)
Humidity resolution	0.01%RH		0.01%RH
Temperature fluctuation	±0.05°C/30min (-5°C~30°C) ±0.10°C/30min (30°C~65°C)		±0.05°C/30min
Temperature uniformity	≤0.20°C (15°C~30°C) ≤0.30°C (other range)		≤0.10°C (10°C~30°C) ≤0.30°C (other range)
Temperature change rate	≤0.02°C/min		≤0.03°C/min
Humidity fluctuation	±0.3%RH/30min (10%RH~80%RH) ±0.5%RH/30min (80%RH~95%RH)		±0.3%RH/30min (10%RH~80%RH) ±0.5%RH/30min (80%RH~95%RH)
Humidity uniformity	≤0.8%RH (10%RH~80%RH) ≤1.0%RH (80%RH~95%RH)		≤0.8%RH
Humidity change rate	≤0.3%RH/min		≤0.3%RH/min
Heating time	60min (20°C~65°C)		40min (20°C~65°C)
Cooling time	60min (65°C~20°C)		40min (65°C~20°C)
Humidification time (20°C)	9min (20%RH~80%RH)		9min (20%RH~80%RH)
Dehumidification time (20°C)	15min (80%RH~20%RH)	20min (80%RH~20%RH)	20min (80%RH~20%RH)
Material	inside: SUS304, outside: steel plate, surface treated with phosphating, passivation and powder coating		
Power supply	AC110V, 60Hz		
Power	5kW		
Chamber dimension (L×W×H)	20.08×20.47×19.69"	31.50×32.28×20.08"	30.71×24.41×19.69"
External dimension (L×W×H)	32.28×37.99×70.08"	41.14×51.18×68.11"	39.37×55.12×66.93"
Weight	771.6lb	992.1lb	992.1lb

### STANDARD DELIVERY

Main unit	1 pc
Sample holder	1 set
Antifreeze	1 bottle
Sample hook	12 pcs