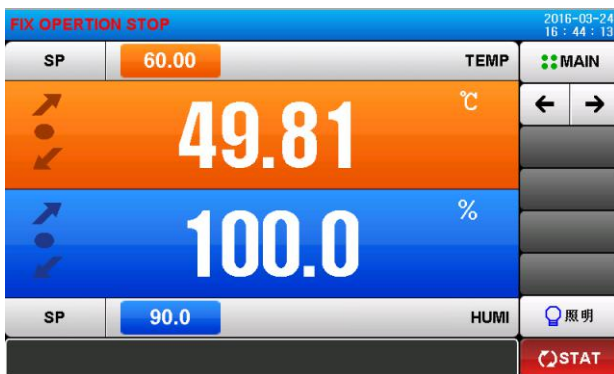


Climate Chamber

EQUIPMENT DETAILS



Temp. Humid. Programmable Controller



France Tecumseh compressor

## GENERAL SPECIFICATIONS

Packaging Dimensions: (WxDxH) 800\*1280\*1580mm  
 Power supply source: single-phase, 220V±10%, 50Hz (can be appointed)  
 Gross Weight: 230kg

## Standard Features

<b>Model</b>	<b>HD-E702-100-4</b>
Internal dimension (W*D*H)	400*500*500mm
External dimension (W*D*H)	600*1080*1380mm
Temperature range	-40~+150°C
Temperature fluctuation	±0.5°C
Temperature uniformity	2°C
Humidity range	20~98%RH (Refer Image below)
Humidity fluctuation	±2.5%RH
Humidity uniformity	3%RH
Cooling speed	1°C/min in average (without loading)
Heating speed	3°C/min in average (without loading)
Internal chamber material	SUS#304 stainless steel, mirror finished
External chamber material	Stainless steel
Cooling method	Air cooling
Controller	LCD touch screen, programmable control temperature and humidity Can set different parameter for cyclic test
Insulation material	50mm high density rigid Polyurethane foam
Heater	Explosion-proof type SUS#304 stainless steel fins radiator pipe heater
Compressor	France Tecumseh compressor
Lighting	Heat resistance
Temperature sensor	PT-100 dry and wet bulb sensor
Observation window	Tempered glass
Testing hole	Diameter 50mm, for cable routing
Sample tray	SUS#304 stainless steel, 2pcs
Safety protection device	Protection for leakage Over-temperature Compressor overvoltage and overload Heater short circuit Water shortage

## Applications

1. To simulate test environment with different temperature and humidity
2. Cyclic test includes climatic conditions: holding test, cooling-off test, heating-up test, moistening test and drying test...
3. Cable port with flexible silicone plug for cable routing to provide the condition of test unit under operation
4. Uncover test unit weakness in a short-term test with accelerated time effect

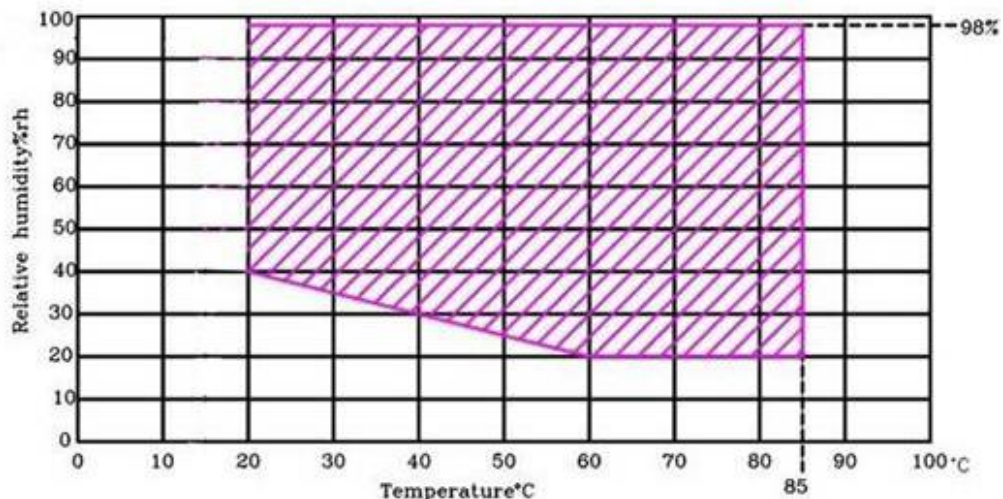
## Chamber Design Features

1. High performance and quiet operation (68 dBA)
2. Space-saving designed for flush installation to wall
3. Full thermal break around doorframe
4. One 50mm diameter cable port on left, with flexible silicone plug
5. Accurate wet/dry-bulb humidity measurement system for easy maintain

## Programmable Controller

1. PLC controller for test chamber
2. Step types include: ramp, soak, jump, auto-start, and end
3. RS-232 interface to connect computer for output

## Humidity Range



20 to 98%RH per hour (no live load)

## PLC OPERATION



## INTERNAL CHAMBER

