



# AI SI Li (China) Test Equipment Co.,Ltd

Add: Jinhui Industrial Park, LiXin town, East City district 523125, DongGuang City, China

## Technical Specification

### Desktop Temperature Humidity Chamber

#### 1 Product Name:

Desktop Temperature Humidity Chamber

#### 2 Model:

DTH-64-B

#### 3 Dimension:

1. Interior dimension: 400 x 400 x 400mm (W x H x D)

2. Exterior dimension: 1000 x 1050 x 1000mm (W x H x D)

#### 4 Weight:

Machine weight: 150kg

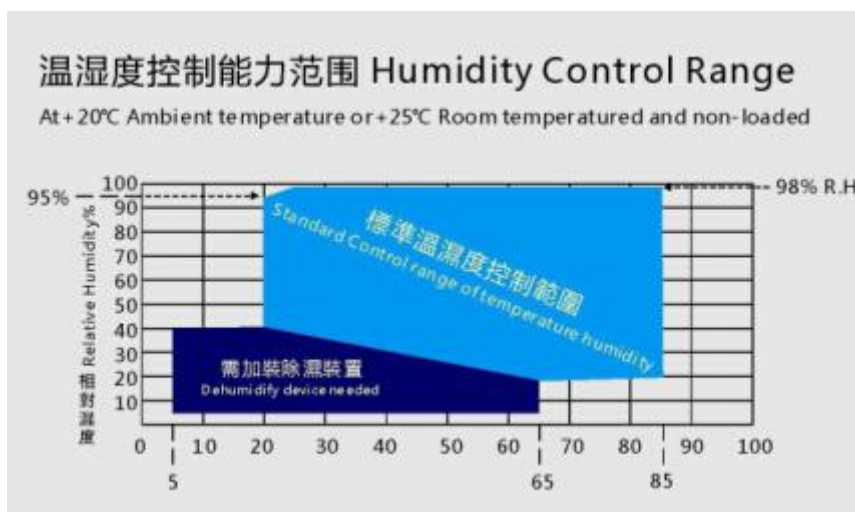
#### 5 Technical index:

Temperature Range : 5 Deg C ~180Deg C (adjustable)

Humidity Range: 10%~98%R.H. (When Temperature 75°C to 95°C to realize 10% humidity)



#### Humidity chart for reference:





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## 6 Accuracy:

	Temperature	Humidity
Indication Resolution	0.1 °C	0.1 % R.H.
Control Accuracy	± 0.5°C	± 2.5% R.H.
Distribution Uniformity	± 2.0 °C (when temperature is 100 °C);	± 3.5% R.H.(When humidity is above 75% R.H.)

P.S.: The above test index tested 2 hours later after machine running stable and under non linear control and no load .

## 7 Structure:

1. Graceful appearance, circularly shaped body, surface treated with mist strips and plane handle with no reaction. Easy to operate, safe and reliable.
- 2 Interior material: SUS#304 stainless steel , mirror polishing.
- 3 .Exterior material: SUS#304 stainless steel or paint coated.
4. Insulation Material: Resistant to high temperature, high density, PU foam insulation materials.
5. Test hole: One hole (Dia.50mm) on left side of chamber, for connecting outside's power line or signal line.

## 8 Control System

- 1.Imported LCD display screen, capable of displaying the measured value as well as the set value and time.
- 2.Fixed condition or programmable condition can be set.
- 3.Fixed condition setting time range: 0 - 999999 H 59 MIN.
- 4.Programmable mold can set 269 different program at the same time, each program can set 10 step to do cycle testing, total is 50 steps different temperature, humidity and testing time.
5. Each step running time (99 hr 59 min), Max.can do 13450 times cycle.
6. With power off memory device, reply message to continue with the rest of the program.
7. The control unit has the functions of multiples segment program editing, and of quick or slope control of



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temperature and humidity.

8. With TIMER SIGNAL OUTPUT RELAY.

9. Temperature sensor adopt DIN PT-100Ω

10. Adopt BTHC system to control temperature and humidity, P.I.D. control S.S.R...

11. With P.I.D. auto calculate function.

12. With alarm function when running or settings fault.

13. 5 years memory back up device while power off

14. With LOCK function for interface.

15. Recorder is optional

16. This system conform to constant temperature humidity reliability test standard: CNS, ISO, JIS, ASTM, DIN, BS, IEC, NACE, UL, MIL...

## 9 Cooling system:

1. Imported power saving full closed compressor

2. Cooling method: air cooling. Environmental protection refrigerant

3. Imported dry filter, electro valve, etc freeze accessories.

4. Air cooling type Condenser, attached with heat dissipation motor device or water cooling pipe.

5. Pyogenic system adopts dual refrigeration loop, fast cooling.

6. Expansion system: capillary capacity control refrigeration system.

## 10. Heated humidification system:

1. Adopt U-TYPE SUS#304ss Electric heat pipe heater

2. Humidify barrel made of SUS#304ss, with observation glass and electromagnetic valve of Water level

3. Independently heat, wet humidify, dehumidify system.

4. With auto heating, wetting and demist function, with observation glass and imported tube.

5. Humidification water recycling, automatic filling water system, 25L built in draw-out type

water tank.



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## 11. Safety device:

1. With no-fuse protection switch
2. Over-heat protection
3. Ceramics E-16 fuse
4. High low temperature protection switch for compressor
5. Over heat switch for compressor
6. Water shortage alarm, stop machine for long time water shortage protection.

## 12. Accessories:

2 pcs SUS#304ss sample setting shelves, 5 pcs wet and dry bulb gauze five, 4 pcs universal wheel, 4 pcs Horizontal foot cup.

## 13. Warranty:

1 year warranty for the full system of machine (except for natural disasters or man-made damage), life-long maintenance.

## 14. Attached documents :

- (1) Operating instruction manual, warranty card;
- (2) Personnel training operation.

## 15. Power:

AC220V+/-10 V 50/60Hz Single Phase Three Lines

## P.S.:

The operating environment of the machine should be under Room Temperature and with good ventilation. We Strongly suggest installing air conditioner in the working area.



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