FAITHFUL

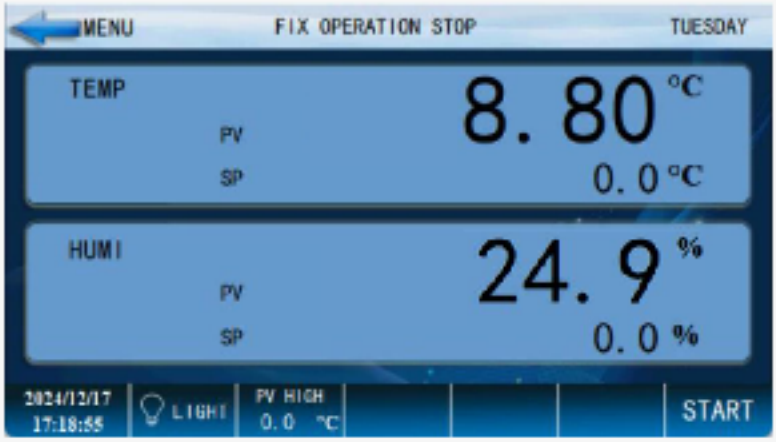
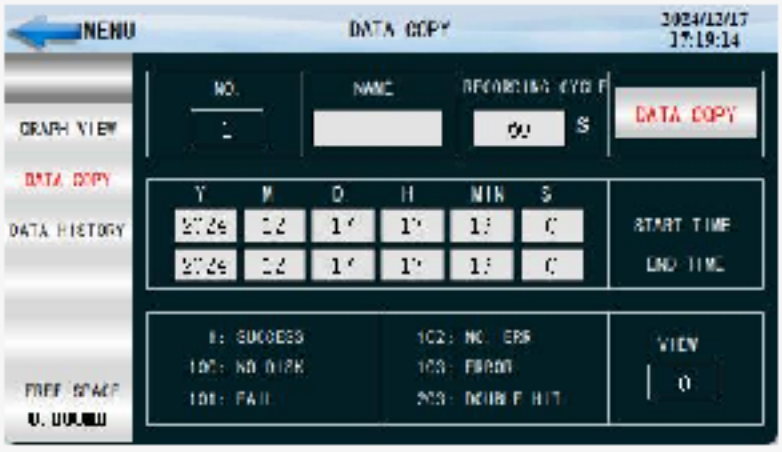
STABILITY CHAMBER

1. Main Technical Parameters

Model	SDH008
1.1 Test area size	400×400×500mm (D×W×H)
1.2 External size	800×520×1300mm (D×W×H)
1.3 Temperature range	0 ~ 100℃
1.4 Temp. fluctuation	±0.5℃
1.5 Temp. setting accuracy	0.1℃
1.6 Humidity range	**30 ～ 98%R.H**
1.7 Humidity fluctuation	±2% R.H
1.8 Humidity setting accuracy	0.1%RH
1.9 Controller	4.3" LCD touch screen temperature humidity controller
1.10 Operation mode	Fix
1.11 Power	220V, 50Hz, 1P, 2Kw

2. Controlling And Measuring System

2.1 Controller	LCD touch screen temperature and humidity controller. It has also the PID function of the controller can automatically control the temperature and humidity and correct the deviations. It can store the test data as well.

	  
2.2 Controller language	Digits and English
2.3 Controller display	target temperature and humidity real temperature and humidity operating time alarm curve ……
2.4 Operating mode	Constant / Fix
2.5 Controller setting accuracy	Temperature:0.1℃

3. Chamber Structure	
3.1 External material	SPCC cold-rolled electrostatic sprayed steel plate
3.2 Test area material	SUS304 stainless steel plate BAOSTEEL
3.3 Insulation material	Superfine glass wool
3.4 Door	Single-door, flat handlebars
3.5 Door seal	Resistant-to-high-temperature silicone rubber
3.6 Door window	An defrost window on the door
3.7 Test area light	One proof-defrost light
3.8 Specimen shelf	2 levels of stainless-steel shelves
3.9 Wire hole	A diameter Φ50mm wire hole through which wire can be linked to your specimen in test area 
3.10 Wheel	4 wheels

4. Heating System	
4.1 Controlling part	SSR solid-sate relay
4.2 Heater	Stainless-steel heater, and electric relay with over-heat protection

5. Refrigerating System	
5.1 Compressor	Totally-closed hermetic compressor made in Germany SECOP
5.2 Refrigerant	Environmentally friendly refrigerant
5.3 Cooling mode	Air-cooling
5.4 Evaporator	Domestically-made evaporative condenser
5.5 Condenser	Domestically-made condenser
5.6 Other cooling parts	expansion relief valve electromagnetic control valve drying filter pressure controller

6. Humidifying/Dehumidifying System	
6.1 Humidifier	Built-in boiler steam humidifier which automatically add water and give water-shortage alarm
6.2 Humidifying mode	Steam-humidifying
6.3 Dehumidifying mode	Evaporator coil dew-point temperature laminar flow contact
6.4 Water tank	Plastic water tank in a drawer at the bottom

7. Air Circulation System	
7.1 Blower	Stainless steel long-axial fan
7.2 Air circulation mode	compulsory air circulation and Balance Temperature & Humidity Calculation（BTHC）which means when the refrigerating system is running, it controls the heater and humidity according to the calculated outcome gained from PID function.

8. Other Controlling and Measuring System	
8.1Temperature sensor	Pt100 temperature sensor
8.2 Humidity sensor	Pt100 humidity sensor
8.3 Other controlling part	SIEMENS AC contactor; OMRON relay; Delixi breaker; ..... SIEMENS OMRON

9. Safety device
(1) Water lack alarm
(2) Over-heat protection
(3) Over-load of fan protection
(4) Over-load of compressor protection
(5) Short-circuit protection
(6) Ground protection

10. Operation Ambient Condition	
10.1 Power supply	220V, 50Hz, 1P
10.2 Ambient temperature	5 ～ 30℃