

CLIMATE STSAR series

High and low temperature test chamber



● Main technical parameters

● Temperature fluctuation: $\leq \pm 0.5\text{ }^{\circ}\text{C}$

Temperature uniformity: $\leq 2.0\text{ }^{\circ}\text{C}$

● Temperature deviation: $\leq \pm 2.0\text{ }^{\circ}\text{C}$

Humidity deviation: $\leq \pm 3.0\% \text{RH}$ (over 75%RH)
 $\leq \pm 5.0\% \text{RH}$ (lower than 75%RH)"

● Temperature and humidity control method: BTHC

Ambient temperature: $+5\sim+35\text{ }^{\circ}\text{C}$

● Power(V): AC $380\pm 10\% \text{V}$ $50\text{HZ}\pm 0.5\text{HZ}$

Equipment noise: $\leq 69\text{dB}$ (testing from one meter in front of the door)

● Standard configuration: Electrothermal film glass observation 2 pcs ; Cable hole ($\Phi 100$) 1 PCS; sample shelf 2 kits; Lighting 1 pcs; Sample power control terminal 1 (C), only C type equipment equipment with this.

● Implementation standards

● GB/T5170.2-2008 Temperature test equipment

GB/T5170.5-2008 Humidity test equipment (C)

● GB/T2423.1-2008(IEC68-2-1) testing A, Low temperature test method

GB/T2423.2-2008(IEC68-2-2) testing B, High temperature test method

● GB/T2423.3-2006(IEC68-2-3) testing Ca, Constant thermal humidity test (C)

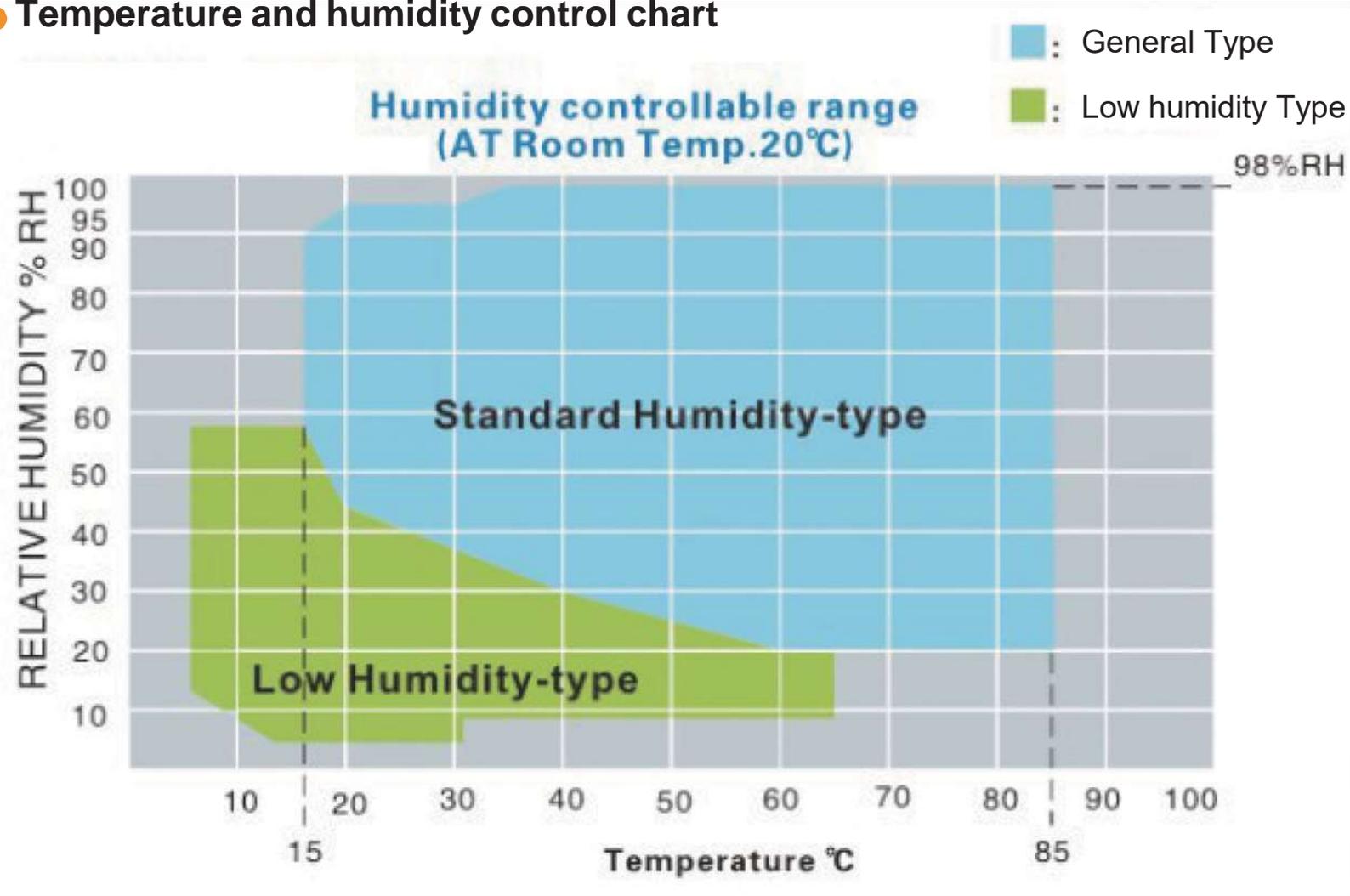
GB/T2423.4-2008(IEC68-2-30) testing Db, Thermal humidity test (C)

● GJB150.3A-2009(MIL-STD-810F-2000) High Temperature test

GJB150.4A-2009(MIL-STD-810F-2000) Low Temperature test

● GJB150.9A-2009(MIL-STD-810F-2000) thermal humidity test (C)

● Temperature and humidity control chart



Climatic chamber	Model	Unit	SMC-64-CC	SMC-80-CC	SMC-150-CC	SMC-225-CC	SMC-408-CC	SMC-800-CC	SMC-1000-CC	SMC-1500-CC
Test volume	L		64L	80L	150L	225L	408L	800L	1000L	1500L
Temperature range	°C	-75°C ~ +180 °C (A: 0°C; B: -20°C; C: -40°C; D: -75°C)								
Humidity range	%RH	10~ 98								
Dew-point temperature	°C	+10~ +95								
Dew-point temperature range	°C	+4(-3°C)~ +94								
Humidity fluctuation	%RH	±1.0 ~±3.0								
Temperature change	°C	Fluctuation ±0.1 ~ ±0.5 ; Uniformity ± 0.5 ~±2.0								
Heating rate	°C/min	3.0°C~5.0°C								
Cooling rate	°C/min	1.0°C~2.0°C								
Highest thermal compensation	W	200W	400W	400W	400W	500W	500W	600W	600W	
Inner size	W	400	400	500	500	800	1000	1000	1200	
	D	400	400	500	600	600	800	1000	1000	
	H	400	500	600	750	850	1000	1000	1250	
Outside size	W	680	700	800	800	1100	1300	1300	1500	
	D	900	1220	1320	1420	1420	1620	1820	2300	
	H	625	1450	1550	1700	1800	1980	1980	1600	
Power supply		230V ± 10%, 1/N, 50HZ				400V ± 10%, 3/N/PE, 50HZ				
Power	Kw	4.8	5.8	6.5	8.5	8.9	11.6	13.5	15.5	
Noise level	dB(A)	50	52	54	55	56	60	60	65	
Weight	Kg	470	280	380	450	620	680	840	955	
Cooling mode		AIR-COLLED								
Control system	pcs	The South Lorea SAMWON TEMI1500, TEMI2500, TEMI2700								

- CLIMATE STSAR series has advanced features in terms of quality and reliability

- **Customer first**

1. If you have ever used environmental test equipment, you will soon feel the unique design and ease of use of the device CLIMATE STSAR.

2. First of all, you can feel the equipment is easy to use, low maintenance rate and high reliability

3. Then, You can choose different the testing volume, temperature range and special parts to meet your special requirements

- **Products Features**

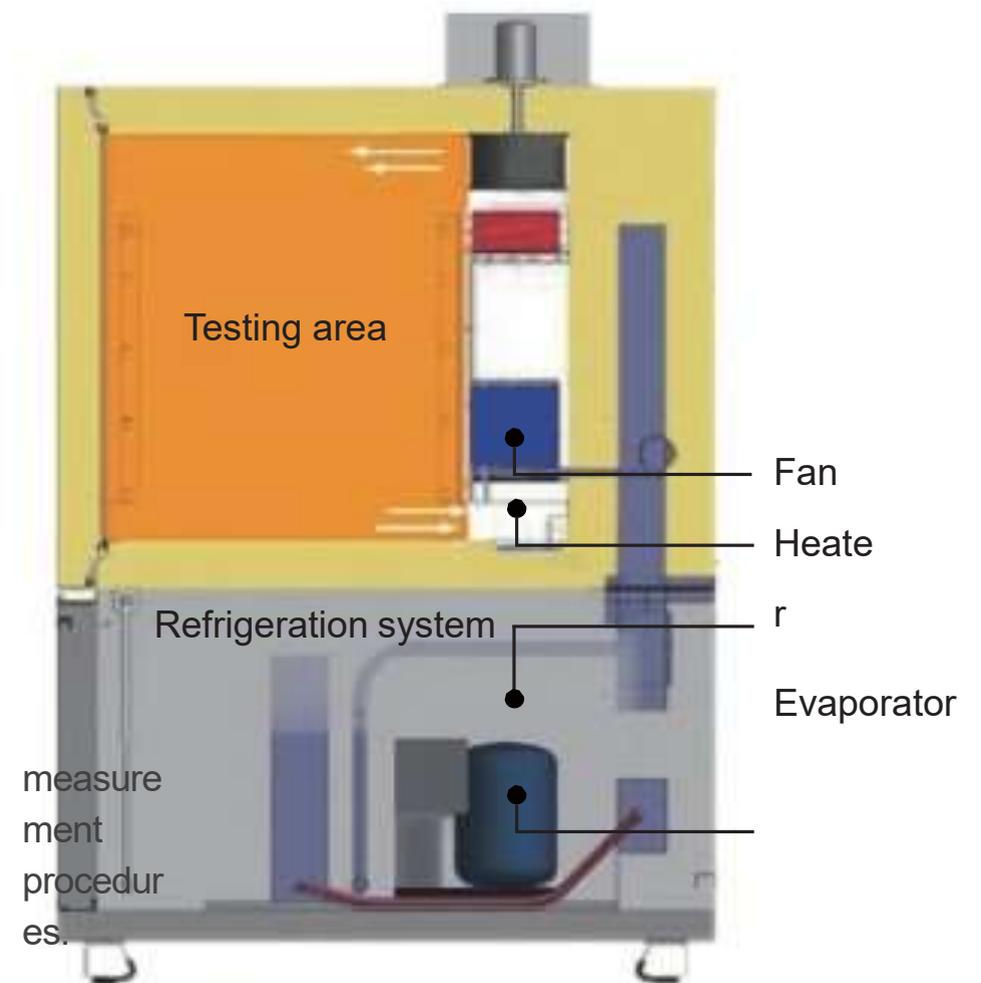
The CLIMATE STAR series products have excellent design and high quality standard features.

1. Large viewing angle and full heating observation window
2. High stability full color touch screen
3. Pin holes on both sides
4. Sample holder capable of conveniently adjusting height
5. Triple independent over temperature protection
6. Safety sample terminal
7. High quality casters for the equipment easily level shift
8. Ultra quiet
9. Disassemble operation panel for easy maintenance

- **Scope of application**

1. This model is a simulation products in climate field, it's combination of temperature and humidity conditions (high and low temperature operation & storage, temperature cycle, high temperature and high humidity, low temperature and humidity, condensation test) testing the product whether it has any changes in the ability and the characteristic.

2. Must meet the requirements of the international standard(IEC, JIS , GB, MIL---) to achieve the consistency of the international



SM C 1000 C

Humidifying laver

D

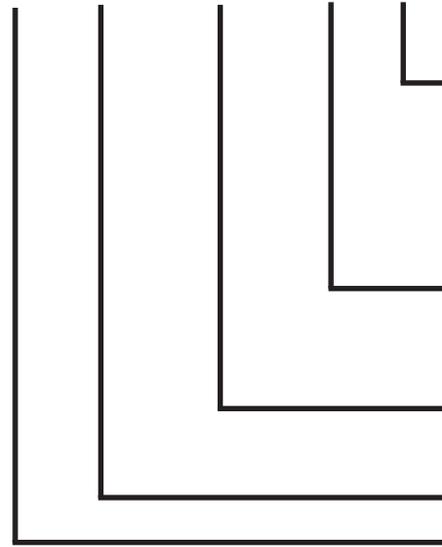
Indicate temperature range

Programmable

Internal volume of the equipment

5 Mild (Energy saving)

Brand code/name(sanwood)



● Structure characteristics

1. Shell: Spray galvanized color steel plate, the surface electrostatic spray processing.
2. Liner: stainless steel SUS 304.
3. Thermal insulation layer: Polyurethane foam board and glass fiber.
4. Seal: Toshiba high purity silicon rubber raw materials, effectively prevent aging.
5. Heater: Ni Cr alloy electric heater.
6. Humidifier: Outer tube: SUS316 stainless steel seamless pipe Internal heating wire: Ni Cr alloy wire.
7. Sample holder: 40kg/ layer * 2 layer (standard configuration)
80kg/ layer ; 120kg/ layer
Total bearing ≤ 240 kg (optional).

Pin hole



Φ100mm (standard equipment)
Φ50mm Φ80mm Φ160mm
(optional equipment)

Inner glass door (optional)



Operation sample hole on the glass



Simple type water supply water tank (C)



● Refrigeration design

1. Modular production, reliable quality, convenient maintenance.
2. Silver brazing welding vibration pipe with a silver content of 45% to prevent the welding leak effectively.
3. Adequate space position, easy to operate.
4. Welding through nitrogen, ensure the inner pipe not nitriding.
5. Take a variety of techniques to decouple shock.
6. Take a variety of techniques to anti-corrosive.



Compressor



France Taikang compressor
(Original import)

Pressure relay



America EMERSON or Denmark DANFOSS

Evaporator

Custom efficient fin type heat exchanger

Solenoid valve



Italy CASTEL

Refrigerant

R404A
R23(-70)
Ozone depletion index was 0

Denmark DANFOSS brand



1. condenser
2. evaporator condenser(-70)
3. Evaporation pressure regulating valve
4. Thermal expansion valve
5. Dry filter
6. Condensation pressure regulating valve (water-cold)

Controller



1. 5.7" 640*480 lattice. TFT LCD displayer
2. 1200 programs , program can cycle
3. RS - 485 interface, with remote communication function.
4. SD card storage test data, about 7500 days (Sampling period: 5min)
5. operating language: Chinese or English

Recorder



1. Large screen LED display
2. High reliability of industrial records requirements

The sample power control terminal



1. When the equipment safety protection device works, the power supply of the electrified sample is controlled through the connecting terminal.

Safety protection device

1. Compressor



- 1.1 Compressor overpressure
- 1.2 Compressor motor overheating
- 1.3 Compressor motor over-current
- 1.4 Condenser fan overheating (air-cold)
- 1.5 Cooling circulating water pressure shortag (water-cold).

2. Waterway

- 2.1 Heating tube dry.
- 2.2 Abnormal of water supply.
- 2.3 Abnormal drainage.

3. Test samples of protection



- 3.1 Adjustable overtemperature protection.
- 3.2 Air conditioning channel over temperature limit.
- 3.3 controller set overtemperature shut down alarm.
- 3.4 sample terminal protection.

4. Electric control

- 4.1 The fan motor overheating.
- 4.2 Total power phase sequence and lack of phase protection.
- 4.3 Leakage protection.
- 4.4 Load short circuit protection.

The Experience you Rely on...

Sanwood Environmental Chambers was established in 1995, which integrated Taiwan and Japan technologies. We have been focus on the most secure and reliable climatic test chamber technology since established. And has become a private science and technology enterprises in Dongguan,Guangdong Province, which passed the ISO9001:2008 quality system certification.

Our products upgrade constantly and our customers come portable batteries, power batteries, battery, lithium batteries, lead-acid, new energy vehicles, electric bicycles, electric tools, electric systems, solar, military, universities research and other technology industries fields.

Having experienced nearly 20 years efforts, we have successfully developed a series of products:

power batteries, battery, lithium batteries, lead-acid, new energy vehicles, electric bicycles, electric tools, electric systems, solar, military, universities research and other technology industries fields.

- High and low temperature test chamber
- explosion-proof type thermal shock chamber
- an explosion-proof type temperature test box
- walk-in temperature and humidity chamber
- weather resistance test chamber
- battery thermal abuse test box
- explosion-proof type hot box
- Temperature&humidity&Vibration integrated test chamber
- dust test box
- vibration table
- rain test chamber
- ozone test box
- xenon lamp test chamber
- high temperature oven
- seawater immersion box

All of products meet GB31241、IE62133、QCT/743、UN38.3、UL2054 Standard. And we have had a good cooperation with ATL, Sony, Sunwoda, Desay, Samsung, BYD, Toyota, Yutong Bus, Nissan, Guangdong Province entry-exit, Tsinghua University, Henan University, Chinese Academy of Sciences, Central South University Successively.

Enterprise vision:

Sanwood Technology has established a large production base in Dongguan after many years efforts. The plant area reached more than 12000 square meters. The foreign trade branch and foreign service agencies were established in 2010. And branches successively established in Taiwan, Suzhou, Hunan, Hubei, Beijing, Henan. Excellent products and good after-sales service make us won the recognition and trust of customers. Products are exported to more than 30 countries, such as Russia, Singapore, the United States, Turkey, Denmark, Vietnam, India, Malaysia, Kazakhstan, Austria, Canada, etc. In the age with fierce competitions, Sanwood thrived little by little and aims to become the leading brand in the safety and reliability environmental test



Focusing on the innovation of environmental reliability test

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