

Walk-in temperature and humidity testing chamber



Implementation standards

SMC-160-WT

16.0m³

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(IEC68-2-3) 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)

SMC-250-WT

25.0m³

-60 °C ~+80 °C /+100 °C (Split Composite Structure) (A:0 °C;B-20 °C;C-40 °C;D-60 °C)

20~98

SMC-340-WT

34.0m³

SMC-400-WT

40.0m³

 Temperature range: -65~ +85 Deg C Up-and-down temperature range: -55~ +70 Deg C Temperature fluctuation: ≤±0.5 °C

Technical

specifications

Main technical parameters

- Temperature uniformity: ≤2.0 °C Humidity deviation: ≤±3.0%RH (over75%RH)
- ≤±5.0%RH (lower than 75%RH) Temperature and humidity control method: BTHC

Standard configuration: Electrothermal film glass observation

1 (single) or 2 (double door); Cable hole (Φ100) 2 PCS;

- Ambient temperature: +5~+35 °C Power(V): AC 380±10%V 50HZ±0.5HZ
- Equipment noise: ≤75 dB (testing from one meter in front of the door)
- Lighting 1 pcs (2.5~4)m2; Sample power control terminal 1 (C), only C type equipment equipment with this. Environmental chamber
- Test volume Temperature range

Humidity range

Dew-point temperature	°C	+20~ +85						
Dew-point temperature range	e °C							
Relative humidity fluctuation	%RH	±1.0 ~±5.0						
Temperature change	${}^{\circ}\! {\mathbb C}$	°C Fluctuation ±0.1 ~ ±0.5 ; Evenness ± 0.5 ~±3.0						
Heating rate	°C/min	າ 3.0 ℃ ~5.0 ℃						
Cooling rate	°C/min	-0.7 °C ~+1.5 °C						
Test space dimensions	Wide)mm	1970	3020	4070	3020	4070	5120	
	Deep)mm	1970	1970	1970	4070	4070	4070	
	High)mm	2100	2100	2100	2100	2100	2100	
External dimensions	Wide)mm	2900	3920	4970	3920	4970	6020	
	Deep)mm	2300	2300	2300	4370	4370	4370	
	High)mm	2400	2400	2400	2400	2400	2400	
Power		400V ± 10%, 3/N/PE, 50HZ						
Rated Power	Kw	21.8	23.5	26.5	29.5	31.5	33.5	
Sound pressure level	dB(A)	65	65	65	70	70	70	
Cooling method Water-cooled								
Control system	pcs	pcs The South Korea SAMWON TEMI1500.TEMI2500.TEMI2700						
■ Temperature and humidity control chart General Humidity controllable range Low h						A. T.		
(AT F		: Low humic	98%RH	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
王 100 95 90				* Carrier Hard (1999).	Optional door position (A,B,C)			

SMC-080-WT

8.0m³

Model

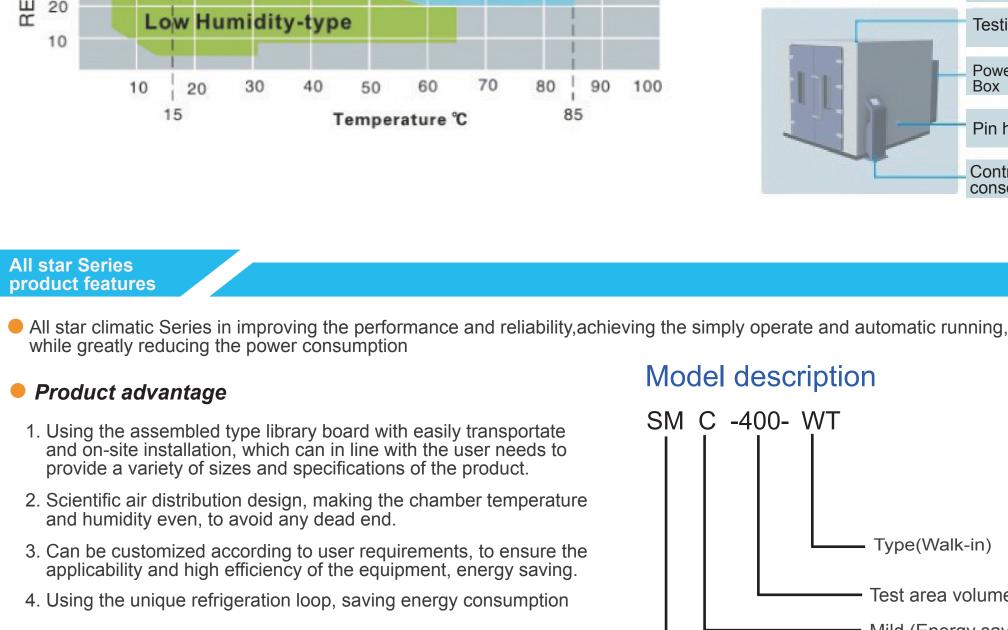
 $^{\circ}$ C

%RH

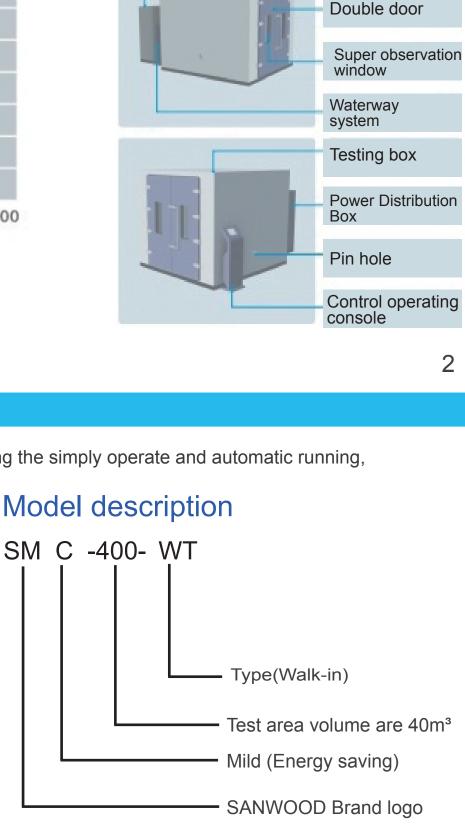
SMC-120-WT

12.0m³

RELATIVE HUMIDITY % 40 30



Standard Humidity-type



Preparation room (optional)

used as the sample measuring

Preventing the temperature and

humidity conditions in laboratory

when opening and closing the

Whenusing the cars and other

the weight of the concentrated,

moving samples, in order to spread

using the reinforced floor to prevent

the floor deformation. Increase the number of floor support, spreading

temperature and humidity chamber

can be 4 speed change, then

Floor strength (optional)

Door curtain (optional)

laboratory doors.

chamber.

Wind circulation

channel

3 **Structure** characteristics

80

70

60

50

1. Shell: Spray galvanized color steel plate, When opening or closing the 1. Shorten the delivery time and the surfaceelectrostatic spray processing door of the laboratory, the effect installation time of temperature and humidity can 2. Easy to assemble and pass 2. Liner: stainless steel SUS 304. be minimized, and it can also be the circulating air duct system

type

Modular design advantage

3. The modular structure is

of design conception

to facilitate the plug and play.

convenient for quality control.

4. High reliability from a high level

4. Seal: Toshiba high purity silicon rubber raw materials, effectively prevent aging. 5. Heater: Ni Cr alloy electric heater

Pin hole

Structure design

3. Thermal insulation layer: Polyurethane

foam board thickness 100mm.

- Handling ramp(Option) 6. Humidifier: Outer tube: SUS316 stainless For carrying heavy loads to the steel seamless pipe Internal heating wire: laboratory, there are cylinder Ni Cr alloy wire. drive automatic type and handle
- Super large observation window SANWOOD

Ф80mm Ф160mm (optional equipment)

Φ100mm (standard equipment)

Observation window: Visual range: W400*H800mmConsole/ controller

When a person enters into the lab working,

the light on the door of the laboratory

Laboratory door upper state

indicator light (optional)

indicates that in the room.

All star series product features

maintenance.

Refrigeration design 1. Modular production, reliable quality, easy

3. Enough space easy to operate.

6. Take various anti-rust process.

America EMERSON or Denmark

no tube oxidation.

Pressure relay

DANFOSS

Control System

Controller

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2. Piping vibration adopts 45% silver content of silver solder, To prevent joint leakage.

4. Through the nitrogen when welding, ensure

5. Take all kinds of shock absorption process.

purifier 75L Electronic display (optional)

Pure water purifying device(C)

Water

Burglary indicator (optional) When a person enters into the lab working, the light on the door of the laboratory indicates that in the room.

Display the temperature and

humidity in the laboratory

Mute cover

Copeland

(option)

Evaporator

exchanger

Germany Bizter compressor (standard)

Germany compressor (option)

Mute cover: reduce noise 10 db

Design high efficiency finned heat

Wind speed variable device (optional) The wind speed in the constant

the load of the weight.

reduce the influence to the specimen. Ceiling air distribution (optional) Reduce the wind speed in the laboratory to reduce the impact to the sample, and making the wind speed in the room is uniform

* When the blowing port is installed,

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the effective height of the room is

at the same time.

reduced 200mm.

SCaste Italy CASTEL

Ozone depletion index was 0

Denmark DANFOSS brand

Electromagnetic valve

Refrigerant

R404A

R23(-70)

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)

200.0 250.0 300.0

displayer

1. 5.7" 640*480 lattice. TFT LCD

3. RS - 485 interface, with remote

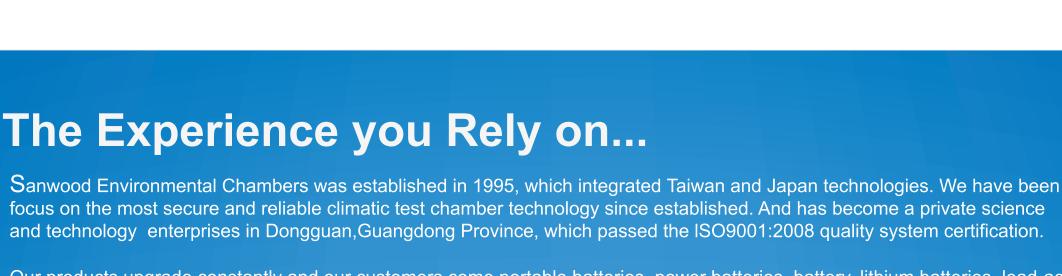
4. SD card storage test data, about

7500 days (Sampling period: 5min)

5. operating language: Chinese or English

communication function.

2. 1200 programs, program can cycle



- 1. Large screen LED display 2. High reliability of industrial r

ecords requirements

The sample power control terminal

Recorder(option)



1. When the equipment safety

power supply of the electrified

sample is controlled through

the connecting terminal.

protection device works, the

Our products upgrade constantly and our customers come portable batteries, power batteries, battery, lithium batteries, lead-acid,

0 0 8 3 1

protection.

down alarm.

4. Electric control

2. Waterway

2.1 Heating tube dry.

2.3 Abnormal drainage.

2.2 Abnormal of water supply.

3.1 Adjustable overtemperature

3.2 Air conditioning channel over

3.4 sample terminal protection.

4.1 The fan motor overheating.

3.3 controller set overtemperature shut

temperature limit.

3. Test samples of protection

4.2 Total power phase sequence and lack of phase protection. 4.3 Leakage protection. 4.4 Load short circuit protection.

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dust test box vib ration table rain test chamber ozone test box

xenon lamp test chambe

high temperature oven

seawater immersion box

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: 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 h ot box Temperature&humidity&Vibration integrated test chamber All of products meet GB31241 LE62133 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 equipment industry all over the world.







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