

## (AT Room Temp.20℃) 98%RH RELATIVE HUMIDITY % RH Standard Humidity-type Low Humidity-type 10 70 90 60 80 100 10 20 30 40 50 15 85 Temperature ℃ **Data sheet** SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-Model Unit 190-40-5 190-70-5 335-40-5 600-40-5 990-40-5 990-70-5 1540-40-5 190-70-5 600-70-5 1540-70-5 Volume L 190 335 600 990 1540 **Temperature Test Parameters**

Inner dimension Width ×epth× height

Temperature range

Temperature fluctuation

Temperature uniformity

Heating/cooling rate

Temperature range

Dew point temperature

**Humidity fluctuation** 

Temperature fluctuation

Temperature uniformity

Temperature uniformity

Temperature fluctuation

Temperature uniformity

Inner dimension

Width × depth × height

External dimensions

Width × depth × height

power Supply

Power

**SUPER STSAR** series features

Customer first

standards test chamber.

Products Features

3. Pin holes on both sides

window

**Structure** 

characteristics

Structure design

Humidity range

Climate test parameters

External dimensions mm 870×1280×1775 870×1595×1775 1090×1660×1995 1390×1855×1995 1390×2380×1995 Width ×epth× height 400V±10%,50HZ,3/N/PE power **KW** 8 10 8 10 11 17 23 26 23 26 rated power cooling method Water-cooled SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-Model chamber 10°C/min 270-40-10 480-70-10 270-70-10 480-40-10 800-40-10 800-70-10 1300-40-10 1300-70-10

580×765×750

SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KS-SM-KSchamber 15°C/min Model 270-40-15 1300-40-15 270-70-15 480-40-15 480-70-15 800-40-15 800-70-15 1300-70-15 270 480 800 1300 volume liter **Temperature Test Parameters** -40/+180 -70/+180 -40/+180 -70/+180 -40/+180 -70/+180 -40/+180 -70/+180 temperature range Model Temperature fluctuation  $\mathcal{C}$ ±0.3~±0.8

±0.5~±2.0

±0.1~±0.5

±0.5~±1.0

400V±10%,50HZ,3/N/PE

20/24

water cooling

Test area

SM-KS-190-40-5

The humidification

water tank

1100×800×920

1390×2675×2020

28/35

34/44

Fan

evaporator

Temperature change rate

The lowest temperature is

test chamber Code

SANWOOD Brand logo

Observation window:

Visual range: W400\*H600mm

Compressed air drier (optional)

Super large observation window

800×650×950

1090×2480×2025

16/20

10.0/12.5 10.0/14.5 12.0/12.0 10.0/12.5 10.0/11.0 12.0/12.0 12.0/11.5 11.0/10.5 Heating/cooling rate C/min 17.0/18.0 16.0/18.0 17.0/15.0 16.0/15.5 16.0/14.5 Heating/cooling rate 16.0/16.0 16.0/18.0 16.0/17.0 °C/min Climate test parameters  $\mathbb{C}$ temperature range +10~+95 Humidity range 10~95 %r.h  $^{\circ}$ C Dew point temperature -3~+94 **Humidity fluctuation** %r.h ±1.0~±3.0

cooling method 3

-40 test are volume are 270L 4. Sample holder capable of conveniently adjusting height 480L,800L,1000L 5. Triple independent over temperature protection 6. Safety sample terminal Rapid temperature change

Pin hole

Φ100mm (standard equipment)

Ф50mm Ф80mm Ф160mm

Pure water purifying device(C)

(optional equipment)

## Heater: Ni Cr alloy electric heater 6. Humidifier: Outer tube: SUS316 stainless steel seamless pipe Internal heating wire:

(optional)

Refrigeration

maintenance.

Pressure relay

**EMERSON**.

**DANFOSS** 

Controller

프로그램 운전:ELECTRIC FURNACE

welding leak effectively.

5

system

Ni Cr alloy wire.

Refrigeration design 1. Modular production, reliable quality, easy

2. Silver brazing welding vibration pipe with

a silver content of 45%, to prevent the

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.
- **Control System**

America EMERSON or Denmark

1. 5.7" 640\*480 lattice. TFT LCD displayer

2. 1200 programs, program can cycle

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.

7



Custom efficient fin type heat exchanger

(option)

Recorder(option)

Evaporator

Large screen LED display

ecords requirements

Safety protection device

1.Compressor

2. High reliability of industrial r

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.

1.1 Compressor overpressure

1.4 Condenser fan overheating

1.5 Cooling circulating water

(air-cold)

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

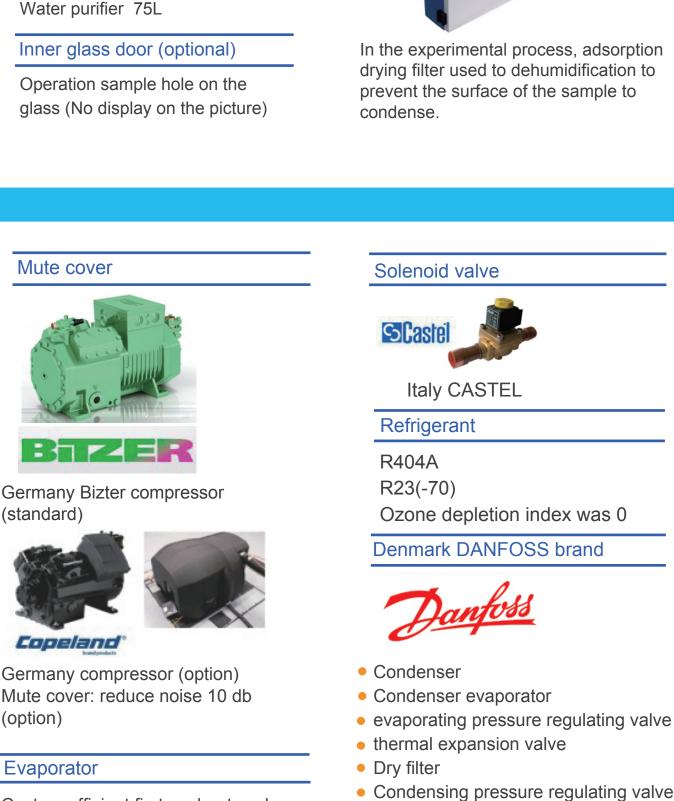
make us won the recognition and trust of customers. Products are exported to more than 30 countries, such as Russia, Singapore

, the United States, Turkey, Denmark, Vietnam, India, Malaysia, Kazakhstan, Austria, Canada, etc. In the age with fierce

,1.2 Compressor motor overheating

1.3 Compressor motor over-current

pressure shortag (water-cold).



(water-cold)

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

3.3 controller set overtemperature

3.4 sample terminal protection.

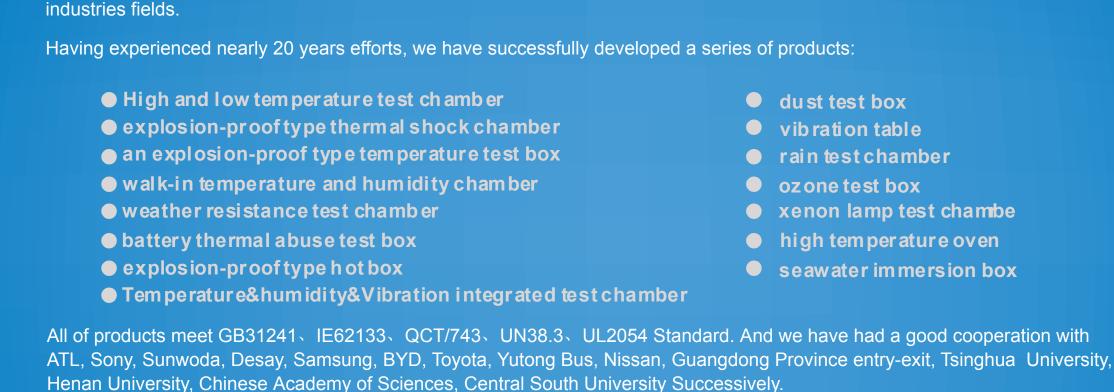
protection.

temperature limit.

shut down alarm.

3. Test samples of protection

6



**Enterprise vision:** 

equipment industry all over the world.

The Experience you Rely on...

SANIVOOD®

Focusing on the innovation of environmental reliability test

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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.

dust test box vibration table rain test chamber ozone test box

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

xenon lamp test chambe

high temperature oven seawater immersion box

competitions, Sanwood thrived little by little and aims to become the leading brand in the safety and reliability environmental test

高低温交变混热试验箱 A : 2 A : 2

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

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

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

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

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

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

2

-70/+180

6.0/5.0

1100×1475×950

1100×1300×920

1390×3200×2020

Power

Cabinet

system

4

Distribution

Refrigeration

34/44

28/35

test method

test method

test (C)

humidity test (C)

General Type

-40/+180 -70/+180

6.0/6.0

±0.1 °C ~±0.5 °C

±0.5 °C ~±2.0 °C

6.0/6.5

+10~+95

10~98

-3~94

±1.0~±3.0

±1~±3

800×800×950

-40/+180

6.1/6.7

-70/+180

6.1/6.0

1100×950×950

-40/+180

6.0/6.3

Low humidity Type

SANWOODET

Temperature fluctuation: ≤±0.5 °C

**Temperature uniformity:** ≤2.0 °C

**Humidity deviation:** ≤±3.0%RH (over75%RH)

Temperature and humidity control method: BTHC

**Equipment noise:** ≤75 dB(testing from one meter

Temperature and humidity control chart

 $\mathbb{C}$ 

 $^{\circ}$ C

 $\mathbb{C}$ 

%r.h

 $\mathcal{C}$ 

%r.h

 $^{\circ}$ C

%r.h

 $\mathcal{C}$ 

 $^{\circ}$ C

mm

°C/min

 $^{\circ}$ C

 $\mathcal{C}$ 

mm

mm

KW

1. Rapid change temperature test chamber realize that

ratio, we adopt the sample temperature control

2. Climate for you to open a new generation industry

1. Large viewing angle and full heating observation

7. Disassemble operation panel for easy maintenance

1. Shell: Spray galvanized color steel plate,

3. Thermal insulation layer: Polyurethane

materials, effectively prevent aging

7. Sample holder: 40kg/ layer \* 2 layer

( standard configuration ) 80kg/ layer;

120kg/ layer Total bearing ≤ 240 kg

4. Seal: Toshiba high purity silicon ubber raw

Liner: stainless steel SUS 304

foam board and glass fiber

the surface electrostatic spray processing

2. High stability full color touch screen

slope control technology and so on.

using the specimen temperature to control the slope.

In order to maintain a fixed sample temperature change

technology, rapid temperature change technology and

580×620×750

14/16

CLIMATE STSAR series has advanced features in terms of uniformity of temperature variation

870×1980×1775

8/12

-40/+180

7.0/8.0

580×450×750

-70/+180

7.5/7.5

-40/+180

6.5/6.8

-70/+180

6.8/6.7

in front of the door)

1 pcs; Sample power control terminal 1pcs; (C), only C type

**Standard configuration:** Electrothermal film glass observation

1pcs; Cable hole (Φ100) 1 PCS; Sample rack 2 sets; Illuminator

**Humidity controllable range** 

≤±5.0%RH (lower than 75%RH)

Temperature deviation: ≤±2.0 °C

**Ambient temperature:** +5~+35 ℃

equipment equipment with this.

Power(V): AC 380±10%V 50HZ±0.5HZ