

Accessories

- Door lock (hand-tighten bolt)
- Pressure relief vent (<P100 mm)
- External input/output terminal
- Emergency stop pushbutton
- 3-colored light tower
- RS-485
- <P100 mm Cable port on the right side (with rubber plug) size 3&4: x3
- Floor load capacity of 100 kg
- Shelf support (M5-tapped)
- Analysis certificate

Options

- 300x300 mm-pressure relief vent (replaces the standard vent)
- Automatic CO2 fire extinguisher (with cylinder)
- Automatic N2 fire extinguisher (jet circuit, starting valve)
- Smoke detector (with suction circuit)
- Thermal detector (specifications of thermocouple, analog setter)
- H2 detector (suction circuit, detector, indicator)
- CO detector (suction circuit, detector, indicator)
- Organic solvent detector (suction circuit, detector, indicator)
- Forced air supply/exhaust damper
- Additional cable port (<P50/> 100 mm)
- Heavy-duty shelf & shelf bracket

Model	Unit	SMC-64-CC-DF	SMC-80-CC-DF	SMC-150-CC-DF	SMC-225-CC-DF	SMC-408-CC-DF	SMC-800-CC-DF	SMC-1000-CC-DF	SMC-1500-CC-DF	
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				
Temperature fluctuation	°C/or.h					±1.0~±3.0				
Temperature changes	°C					±0.1~±0.5, ±0.5~±2.0 fluctuation.....Evenness				
Heating rate	°C/min					3.1°C ~ +5.0°C (optional 3°C/min. 5°C/min. 7°C/min. 10°C/min. 15°C/min)				
Cooling rate	°C/min					-1.0°C ~ +2.0°C (optional 3°C/min. 5°C/min. 7°C/min. 10°C/min. 15°C/min)				
Highest thermal compensation	W	200W	400W	400W	400W	500W	500W	600W	600W	
The inner size(mm)	Wide	400	400	500	500	800	1000	1000	1000	
	Deep	400	400	500	500	800	1000	1000	1000	
	High	400	500	600	750	850	1000	1000	1250	
The outside size(mm)	Wide	680	700	800	800	1100	1300	1300	1500	
	Deep	900	1220	1320	1420	1420	1620	1820	2300	
	High	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	5.5	6.5	8.5	8.9	11.6	13.5	15.5	
SPL	dB(A)	50	52	54	55	56	60	60	65	
Weight	kg	220	285	385	450	500	780	850	1150	
Cooling mode		Air-cooled								

Controller



1. SH-5600 Controller , multi-function on control panel , battery surface temperature detection indicators , Battery fault alarm , Hazardous gases exceeding warning.
2. Safty devices like Emergency stop switch, Automatic/Manual ventilation function, Power switch.
3. Communication Interface , RJ45, support Mobile APPcontrolling , RS-232 , USB , Over temperature Protection.

Recorder(option)



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.

Extinguishing equipment



Fire-extinguishing devices will boot if the equipment cell surface temperature reached the limit temperature, fire extinguishing device solenoid valve opens automatically to put out the fire.

The leakage protection switch



1. Main power switch have function of preventing accidental electric shock
2. Equip with 220V Power supply socket, convenient to use.

Pressure relief port



1. Clear circuit board design adopt International famous brand spare parts.
2. Equipped with three color indicate light, Yellow indicate boot, Green indicate running, Red indicate fault

Explosion-proof lock



Using Explosion-proof lock and 2 Explosion-proof chains on each side for double protection.

• **Structure design**

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 thickness 100mm.
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.

Pin hole

<1>100mm (standard equipment)

<1>80mm <1>160mm (optional equipment)

Super large observation window



Observation window: Visual range: W400*H800mm Console/ controller

Laboratory door upper state indicator light (optional)

When a person enters into the lab working, the light on the door of the laboratory indicates that in the room.

Modular design advantage

1. Shorten the delivery time and installation time
2. Easy to assemble and pass the circulating air duct system to facilitate the plug and play.
3. The modular structure is convenient for quality control.
4. High reliability from a high level of design conception

Handling ramp(Option)

For carrying heavy loads to the laboratory, there are cylinder drive automatic type and handle type



Pure water purifying device(C)



Electronic display (optional)



Display the temperature and humidity in the laboratory

Burglary indicator (optional)

When a person enters into the lab working, the light on the door of the laboratory indicates that in the room.

Preparation room (optional)

When opening or closing the door of the laboratory, the effect of temperature and humidity can be minimized, and it can also be used as the sample measuring chamber.

Door curtain (optional)

Preventing the temperature and humidity conditions in laboratory when opening and closing the laboratory doors.

Floor strength (optional)

When using the cars and other moving samples, in order to spread the weight of the concentrated, using the reinforced floor to prevent the floor deformation. Increase the number of floor support, spreading the load of the weight.

Wind speed variable device (optional)

The wind speed in the constant temperature and humidity chamber can be 4 speed change, then 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 at the same time.

* When the blowing port is installed, the effective height of the room is reduced 200mm.

•Refrigeration design

- 1.Modular production, reliable quality, easy maintenance.
2. Piping vibration adopts 45% silver content of silver solder , To prevent joint leakage.
3. Enough space easy to operate.
4. Through the nitrogen when welding, ensure no tube oxidation.
5. Take all kinds of shock absorption process.
6. Take various anti-rust process.

Pressure relay



America EMERSON or Denmark

DANFOSS

Mute cover



Germany Bizter compressor
(standard)



CDp-land

Germany compressor (option)
Mute cover: reduce noise 10 db
(option)

Evaporator

Design high efficiency finned heat
exchanger

Electromagnetic 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)

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:

- 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 equipment industry all over the world.



SAJW 'JOOR

Focusing on the innovation of environmental reliability test

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