



# Technical Specification



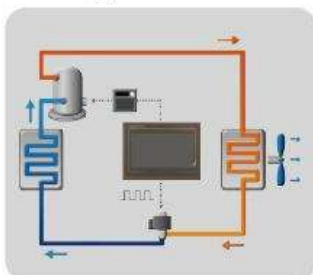
## Equipment Appearance (For reference only)



# Dust Test Chamber



Energy Conservation



Remote network system



Circuit System



UK  
international standard

## Product Usage:

The sand dust test box is suitable for dustproof and dustproof tests on various auto parts. The test parts include lamp, instrument, electric dust cover, steering system, door lock and so on.

## Features:

- 1.The liner is made of SUS304 stainless steel.
- 2.The outer casing is galvanized steel.
- 3.Test box door with observation window, with wiper
- 4.The bottom of the test chamber is in the shape of a funnel to facilitate the collection of talc powder for the experiment.
- 5.Using a circulating fan and an automatic jar to blow the talc into the upper part of the working chamber through a 75 micron square hole mesh, and promote the test space to form a high density dust mist, and test the sample.
- 6.Use the TAIAN time controller (SG2-10HR-A) which is made in Taiwan to control the dust blowing, lighting and vibration cycle.

## Technical Parameters:

Model		SM-SC-500C	SM-SC-1000C	SM-SC-2000
Testing room volume		500L	1000L	2000L
Technical characteristics	Standard spacing of metal screens	50um		
	Standard spacing between lines	75um		
	Amount of talc	2Kg/m2~4Kg/m2		
	Dustfall form	1. Free fall dust type : The dust is blown to 1/5 of the tank top by centrifuge to make it free settling 2. Dust blowing : Bottom air blast , three grades pressure is adjustable		
Size	Inner size ( mm)W*H*D	800*800*800	1000*1000*1000	1000*2000*1000
	Outer size ( mm)W*H*D	1450*1700*1000	1650*1900*1200	1650*2900*1200
Control system	Testing room	Advanced brushed stainless steel		
	Shell	Cold plate rust proof and plastic spraying treatment		
	Operation panel	Digital smart touch key input		
	Operation mode	Constant operation		



	Input	PT-100 sensor
	Auxiliary function	Timing
Standard configuration	With dust drying device, vibrator, sample holder, observation window (door)	
Safety protection	Overload breaking protection, earthing protection, etc.	
Power supply	AC380V TN-S	

### Controller features:

1. 5.7-inch true color touch thin screen (64K colors), resolution: 640 × 480
2. Two control methods: setting/program
3. Sensor type: PT100
4. Output mode: PID control output / 4-20mA analog output (1-5V) / (0-10V) can be arbitrarily selected;
5. Control output signal: a. 8 switch auxiliary control signal (IS, T, AL control signal); b. 10 switch signal relay output as standard (optional 20 relays)
6. Temperature measurement error  $\pm 0.2^{\circ}\text{C}$
7. Special features: blowing dust, vibration, vacuum;
8. Communication interface (optional RS232/RS485, the longest distance of communication is 1.2km [optical fiber can reach 30km]);
9. Interface language type: Chinese / English
10. Program setting: 120 groups of programs can be set, each group can set up to 100 groups;
11. The product display is clear and intuitive, the programmable control system is flexible and convenient to operate, and the performance is stable and more efficient.



### Standards compliant:

The Sand Dust Test Chamber has a wide temperature and humidity adjustment control range, which can meet the national standard GB4208GB/T2423.37-198

"Basic Environmental Test Procedures for Electrical and Electronic Products"



控制器--三木自主研发  
SANWOOD controller



振击器  
Electric Jars



定制锁具  
Door lock



304不锈钢内箱  
SUS#304  
Stainless Steel



水平调节轮  
Horizontal  
regulating wheel



防尘插座  
Dust - proof socket

## 电路系统--核心配件 Circuit System - Core Accessories



交流接触器 ( 施耐德--法国 )  
**AC contactor**  
Schneider-France



漏电开关(施耐德--法国)  
**Leakage switch**  
Schneider-France



电源供应器(明纬-台湾)  
**Power supply**  
Mingwei-Taiwan



继电器(佳乐-瑞士)  
**Relay**  
Carlo Gavazzi - Switzerland



继电器(佳乐-瑞士)  
**Relay**  
Carlo Gavazzi - Switzerland