





Technical Specification



Sonacme Technology (Guangdong) Co., Ltd

-  Add: Building 7, No.310 Songbai Road, Liaobu Town, Dongguan City, Guangdong
-  TEL: +86+769-83234966
-  E-mail: info@sonacme.com
-  www.sonacme.com

SONACME

Sand And Dust Test Chamber



www.sonacme.com

1.Product Usage:

The sand and dust test chamber is suitable for dust-proof and dust-resistant tests of various auto parts. The test parts include lights, instruments, electrical dust jackets, steering systems, door locks, etc.

2.Features:


1. The inner material is made of SUS304 stainless steel plate.
 2. The external material is galvanized sheet with electrostatic spraying.
 3. The door of the test box is attached with an observation window, with a wiper
 4. The bottom of the test box is in the shape of a funnel, which is convenient for collecting the talc powder for the experiment.
 5. Use a circulating fan and an automatic jar to blow the talc powder into the upper part of the working chamber through a mesh of 75 micron square holes, so as to promote the formation of a high-density dust mist in the test space, and test the sample.
- Use Taiwan-made TAIAN time controller (SG2-10HR-A) to control the period of dust blowing, lighting and vibration

3.Technical parameter

Model		SSD/500	SSD/1000	SSD/2000
Testing room volume		500	1000	2000
Technical characteristics	Metal screen standard spacing	50um		
	Standard spacing between lines	75um		
	Talc powder dosage	2Kg/m2~4Kg/m2		
	Dust reduction way	1.Free dust type: use a centrifuge to blow the sand to 1/5 of the height of the top of the box to make it free to settle 2.Blowing sand and dust: the bottom air pressure sprays dust, and the third pressure is adjustable		
Dimension	Inner dimension (mm) W*D*H	800*800*800	1000*1000*1000	2000*1000*1000

Control system	External dimension (mm) W*D*H	1250*1050*1755	1450*1250*2030	2450*1360*2120
	Working chamber	Premium stainless steel		
	External material	Anti-rust and spray treatment of cold-rolled sheet		
	Operation interface	Digital smart touch key input		
	Operation mode	Constant operation		
	Input	PT-100 sensor		
	Additional function	Timer function		
Standard configuration		With dust drying device, vibrator, sample holder, wide viewing window (door)		
Safety device		Overload fuse protection, grounding protection, etc.		
Power supply		AC380V Three-phase five-wire system		

Controller Features

Controller	<p>Controller designed by Sonacme</p> 
Displayer	640X480 dot matrix 7.0 TFT color LCD display
Operation mode	Program method, fixed value method
Setting way	Chinese and English menus (optional), touch screen input
Program capacity	<p>Editable program</p> <p>Quantity: up to 120</p> <p>Number of steps: up to 100 steps</p> <p>Number of cycles: up to 999</p> <p>Program can be linked (linker serial number can be selected)</p>
Setting range	Temperature: Adjust according to the temperature working range of the equipment (upper limit +5℃, lower limit -5℃)

	Humidity: (0 ~ 100)%RH (temperature and humidity test equipment)
Display resolution	Temperature: 0.01℃ temperature Time: 0.01min Humidity: 0.1%RH (For Temperature Humidity Chamber) Time: 0.01min Humidity: 0.1%RH (temperature and humidity test equipment)
Communication function (standard)	Standard: Ethernet, RS485, RS232 interface, choose any one of them
Control method	BTC balance temperature adjustment control method + DCC (intelligent cooling capacity control) +DEC (intelligent electrical control) (temperature test equipment) BTHC balance temperature and humidity control mode + DCC (intelligent cooling capacity control) +DEC (intelligent electrical control) (temperature and humidity test equipment)
Profile record function	It has a RAM with battery protection, which can save the set value, sampling value and sampling time of the device; the maximum recording time is 350 days (when the sampling period is 1.5min)
Additional function	Fault alarm and cause, processing prompt function Power-off protection function Upper and lower limit temperature protection function Calendar timing function (automatic start and automatic stop) Self-diagnostic function

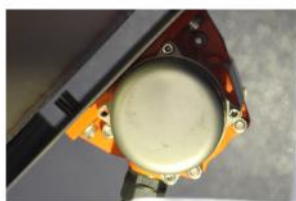
Standards compliant:

The sand and 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 Regulations for Electrical and Electronic Product》



Sonacme controller



Electric Jars



Door lock



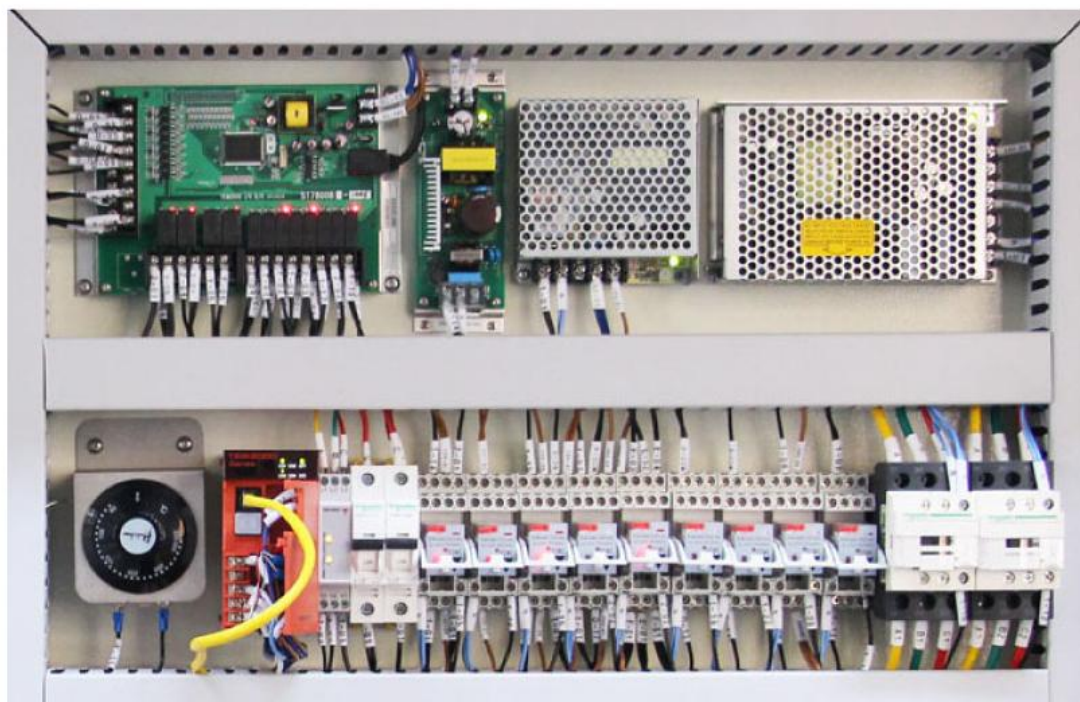
SUS#304
Stainless Steel



Horizontal
regulating wheel



Dust - proof socket



AC contactor
Schneider-France



Temperature Detect Switch (TDS)
RAINBOW-South Korea



Leakage switch
Schneider-France



Power supply
Mingwei-Taiwan



Relay
Carlo Gavazzi - Switzerland



Relay
Carlo Gavazzi - Switzerland