



DUST TEST CHAMBER

Dust Test Chamber replicates the effects of natural elements like sand, wind, and dust on products and materials, often resulting in significant economic losses. Common issues include corrosion, fading, deformation, reduced strength, swelling, and mold. For electrical products, sand and dust can lead to short circuits, increasing the risk of fire. Conducting a dustproof test on enclosures is a critical step in ensuring the reliability and safety of specific products or materials.

This testing method is ideal for evaluating outdoor lighting, household appliances, automotive components, and other electronic and electrical devices.

APPLICATIONS

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Standard Test

Dust Test Chamber meets the standards of IEC60529:1989 +A1:1999 +A2:2013, covering "Degrees of Protection Provided by Enclosures (IP Code)." It also adheres to GB4208-2008 "Enclosure Protection Level (IP Code)" clauses 13.4 and 13.5, along with diagrams 3, as well as GB7000.1 "Part of Lamps: General Requirements and Tests" sections 9.2.1, 9.2.2.

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Electrical System

The circuit cabinet is designed with a clean and professional layout. All circuits are organized according to UK standards and come with comprehensive circuit diagrams. Each line is assigned a unique, clearly marked code, making it straightforward to identify and troubleshoot when needed.

FEATURES

Structural Features

The inner chamber is constructed from SUS#304 stainless steel with a thickness of 1.2mm. Featuring a fully welded structure, it offers excellent sealing and durability, minimizing the risk of cracks.

The exterior is made from 1.5mm thick cold-rolled steel, treated with brushing, polishing, and painting processes to enhance its resistance to scratches.

For insulation, 100mm thick polyurethane foam is used, ensuring effective thermal performance.

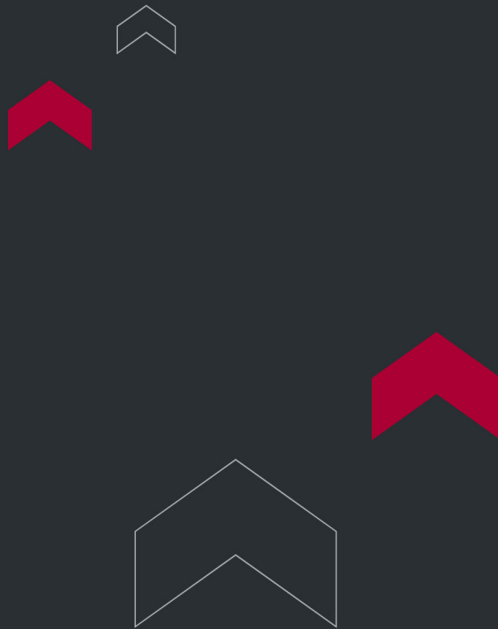
The door features a double silicone rubber sealing material for a secure and airtight closure.

The observation window consists of four layers of tempered glass, with customizable sizing options. To prevent frosting during low-temperature operations, built-in heating wires are included to ensure a clear, frost-free view.

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TECHNICAL SPECIFICATIONS

Model	ToronSDC-125	ToronSDC-500	ToronSDC-1000	ToronSDC-1500	ToronSDC-2000
Volume	125L	500L	1000L	1500L	2000L
Internal Dimension W*H*D(mm)	500x500x500	800x800x800	1000x1000x1000	1500x1000x1000	2000x1000x1000
External Dimension W*H*D(mm)	950x1350x790	1250x1755x1050	1450x2030x1250	1950x2120x1360	2450x2120x1360
Dustfall form	Free fall dust type □ The dust is blown to 1/5 of the tank top by centrifuge to make it free settling				
	Dust blowing□ Bottom air blast , three grades pressure is adjustable				
Standard configuration	With dust drying device, vibrator, sample holder, observation window (door)				
Safety protection	Overload breaking protection, earthing protection, etc.				



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