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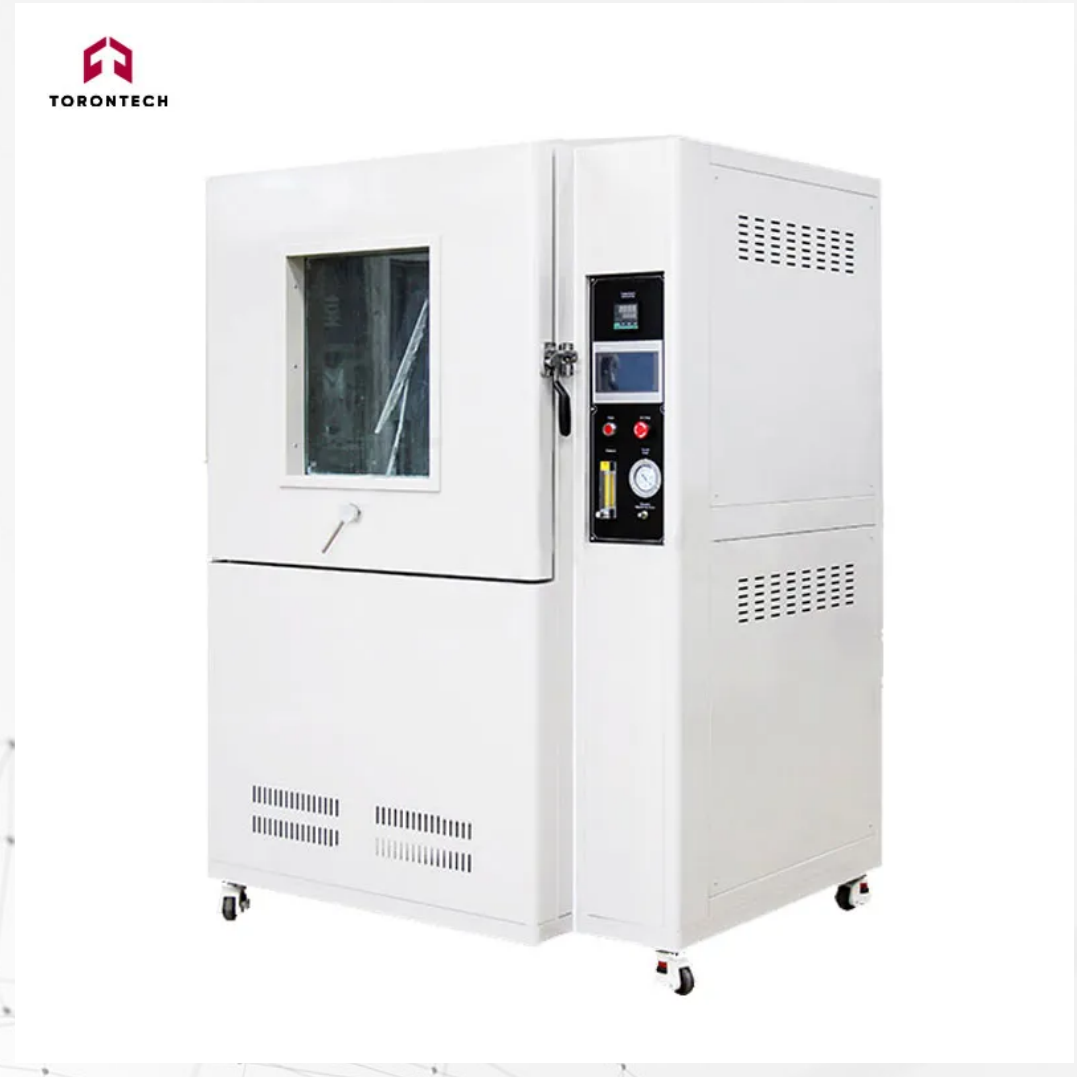

SETTLING DUST CHAMBERS

Settling Dust Chambers replicate the effects of natural dust (such as sand, wind, and fine particles) on products and materials, leading to significant economic losses each year. The damage primarily includes corrosion, fading, deformation, reduced strength, swelling, mold growth, and other issues. Electrical products, in particular, face heightened risks of short circuits caused by sand and dust, which can result in fires. This makes conducting dustproof testing on enclosures an essential process for specific products or materials.

The chambers are designed for dust testing on outdoor lighting, household appliances, automotive components, and other electronic and electrical devices.

APPLICATIONS

Settling Dust Chambers

Settling Dust Chambers

Standard Test

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

Settling Dust Chambers

Electrical System

The circuit cabinet features a clean and professional layout. All circuits are organized in compliance with UK standards and come with comprehensive circuit diagrams. Each line is uniquely coded, making it easy to identify and troubleshoot.

FEATURES

Structural Features

The inner chamber is constructed with SUS#304 stainless steel, featuring a 1.2 mm thickness and a fully welded structure, ensuring excellent sealing and resistance to cracking.

The exterior is made of cold-rolled steel with a 1.5 mm thickness, treated with brushing, polishing, and painting to provide durability and resistance to scratches.

The insulation layer is made of 100 mm thick polyurethane foam for optimal thermal performance.

The door seal is crafted from double-layer silicone rubber for superior sealing.

The observation window consists of four layers of tempered glass, with customizable size options.

To prevent frosting on the observation window during low-temperature operation, heating wires are integrated to ensure defrosting functionality.

Settling Dust Chambers

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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