



TORONTECH

SAND DUST TEST CHAMBER



Sand Dust Test Chamber replicates the impact of natural elements like sand, wind, and dust on products and materials, which can result in significant economic losses annually. Common effects include corrosion, fading, deformation, reduced strength, swelling, mold growth, and more. For electrical products, sand and dust can lead to short circuits, increasing the risk of fires. This makes conducting a dustproof test on enclosures an essential step to ensure product safety and durability.

It is designed for dust testing of outdoor lighting, household appliances, automotive components, and other electronic and electrical products.

APPLICATIONS

Sand Dust Test Chamber

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Standard Test

The Sand and Dust Test Chamber adheres to the following standards:

1. **IEC 60529:1989 + A1:1999 + A2:2013**: "Degrees of protection provided by enclosures (IP Code)."

These compliance measures ensure precise testing and reliable evaluation of enclosure protection levels.

FEATURES

Structural Features

- The inner chamber is constructed from **SUS#304 stainless steel** with a thickness of **1.2mm**. Its fully welded design ensures excellent sealing and resistance to cracking.
- The external structure is made of **1.5mm cold-rolled steel** that undergoes brushing, polishing, and painting treatments, making it highly resistant to scratches.
- **Polyurethane foam** with a thickness of **100mm** is used for insulation, ensuring superior thermal performance.
- The door features a **double silicone rubber seal** for optimal airtightness.
- The observation window is made of **four layers of tempered glass**, with customizable dimensions. To prevent frosting during low-temperature operations, heating wires are embedded within the window for efficient defrosting.

Sand Dust Test Chamber

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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