



®

HAIDA

INTERNATIONAL

IP5X/6X Dust Test Chamber



Haida International Equipment

-Accelerated Environmental Test Solution

Don't guess before you test

Equipment Description

Dust Test Chamber provides an environment to test the exposure and sealing performance of electronic components and lighting products.

General Specifications:

Machine dimension (W*D*H): 1300*1100*1800mm

Power supply source: 3-phase, AC380V±10%, 50Hz

Gross Weight: 300kg

Technical parameters:

Internal dimension (W*D*H): 800*800*800mm

Chamber material: stainless steel #304

Observation window: tempered glass

Controller: LCD touch screen, programmable

Vacuum system: pressure gauge, air filter, vacuum pump

Dust: powdered cement, talcum powder

Specimen power socket: Dustproof switchable socket

- A: Observation window
- B: Door handle
- C: Dust scraper
- D: Hopper for dust recycling use
- E: PLC controller
- F: U-stop button
- G: Pressure gauge



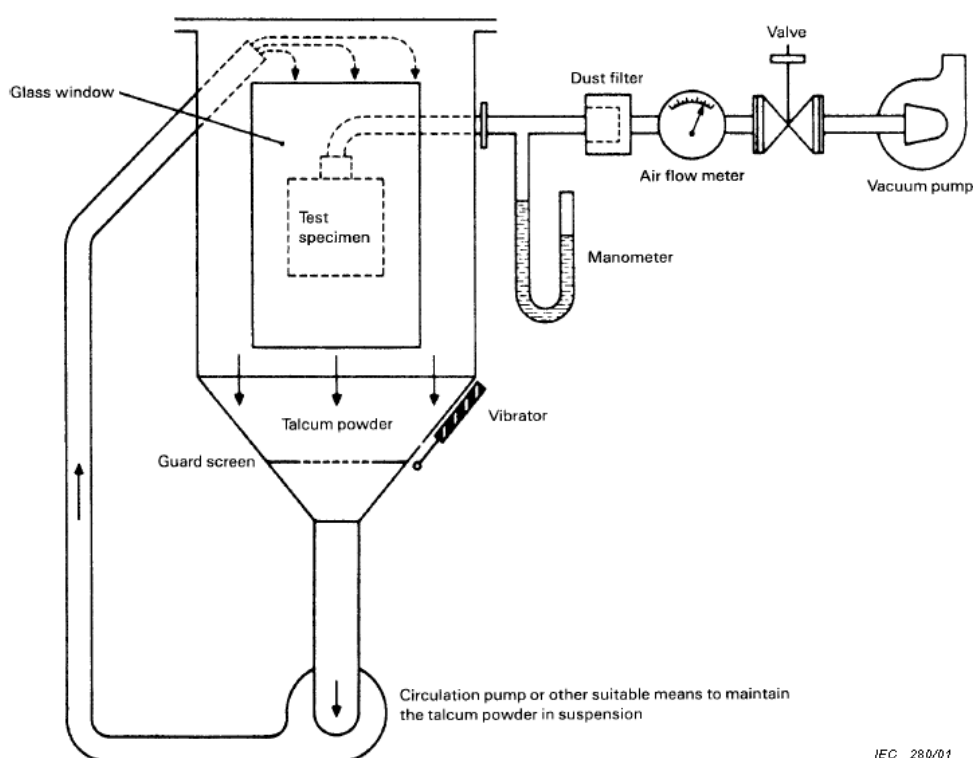
1. Sample tray
2. Hopper for dust collection

Application standards:

IEC 60529 - 13.4, FMVSS 108 - S8.5, SAE J575 - 4.12...

Specific test articles:**IEC 60529 - 13.4 Dust test (DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP CODE))**

The test is made using a dust chamber incorporating the basic principles show in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50um and the nominal width of a gap between wires 75um. The amount of talcum powder to be used is 2kg per cubic meter of the test chamber column. It shall not have been used for more than 20 tests.



IEC 280/01

FMVSS 108 - S8.5 Dust (MOTOR VEHICLE SAFETY STANDARD NO. 108 LAMPS)

The headlamp, mounted on a headlamp test fixture, with all drain holes, breathing devices or other designed openings in their normal operating positions, shall be positioned within a cubical box, with inside measurements of 35.4in. (900mm) on each side or larger required for adequate wall clearance, i.e., a distance of at least 5.9in. (150mm) between the headlamp and any wall of the box.

The box shall contain 9.9 lb. (4.5 kg) of fine powdered cement which conforms to the ASTM C150-77 specification for Portland Cement.

Every 15 minutes, the cement shall be agitated by compressed air or fan blower(s) by projecting blasts of air for a two-second period in a downward direction so that the cement is diffused as uniformly as possible throughout the entire box. This test shall be continued for five hours after which the exterior surfaces of the headlamp shall be wiped clean.



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