



be equal to the sum of the height, width, and depth of the test specimen. A conduit may be installed to equalize the internal and external pressures.

UL 50E Dust tester



## I. Description

Meet the requirements of Clause 8.4.1.1 of UL50E-2020.

## II. Technical Parameters

Comply with the requirements of Clause 8.4.1.1 of UL50E-2020. Main parameters:

- 1) Sand blast gun, suction type, air ejector diameter 4.7mm, nozzle diameter 9.5mm,
- 2) Spray pressure:620-690kPa,
- 3) install a pipe balance box to measure the internal and external pressures,

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- 4) Square screen, wire diameter 50um, wire gap 75um,
- 5) Distance between nozzle and shell 305-380mm,
- 6) Slaked lime powder usage, control the usage amount at 2.27kg/min, the slaked lime powder can be automatically recycled within the box,
- 6) Inner box volume:1000\*1000\*1000mm,
- 7) Provide 50kg of dry slaked lime powder.

## Test Performance Parameters

Parameter	Specification	Remark / Notes
Standard	UL 50E 2020 Clause 8.4.1.1	Sand blast dust ingress test for electrical enclosures
Sand Blast Gun	Suction type	Air ejector diameter 4.7 mm, nozzle diameter 9.5 mm
Spray Pressure	620-690 kPa	Controlled pressure for consistent dust delivery
Test Screen	Square screen	Wire diameter 50 µm, wire gap 75 µm
Nozzle to Shell Distance	305-380 mm	Adjustable distance per UL 50E requirement
Slaked Lime Powder Usage	2.27 kg/min	Automatic recycling system inside the test chamber

## System Specifications

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Parameter	Specification	Remark / Notes
Inner Chamber Volume	1000 × 1000 × 1000 mm	Large test space for various enclosure sizes
Pipe Balance Box	Installed for internal/external pressure measurement	Ensures accurate pressure differential monitoring
Powder Supply	50 kg dry slaked lime powder provided	Sufficient for multiple test cycles
Power Supply	AC 220 V, 50/60 Hz	Standard laboratory power

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