

Dust and Sand Test Chamber

CAPABILITY SHEET · CLOUD · AIR · INSPECT · ENGINEERED TO ORDER

THE ONE IDEA

PRINCIPLE	Dust goes where the air goes.
WHY IT MATTERS	A casing breathes in what it cannot keep out as it cools, so the test holds air moving through every leak.

THE CHAMBER

CLOUD	A circulation blower and ducting keep a steady, even cloud of dry, graded dust through the working volume.
AIR	A vacuum system holds a partial vacuum inside the item, or a blower sets the air speed for blown dust and sand.
DUST	A dust feed and a recovery and drying stage keep the dust dry and the cloud repeatable.
PROTECTION	A door interlock, dust extraction and filters keep the dust in the chamber, and a PLC records each test.

THE METHOD

ORDER	Specify, mount, dust, air, inspect and prove. The air through the leaks, and opening the item to look, are what a quick order skips.
LIMITS	Dust quantities, particle sizes, air speeds, vacuum levels and durations come from the standard the customer names, and are not printed here.

CONFIGURATIONS

BENCH CHAMBER	A cabinet for enclosures and small items, with a dust cloud and a held partial vacuum.
WALK-IN CHAMBER	A room-sized chamber for large items and whole equipment, with a way to meet every face with dust.
BLOWING TUNNEL	A tunnel that carries dust or sand across the item at a set air speed.

STANDARDS & SCOPE

STANDARDS	Public references: IEC 60529, IEC 60068-2-68 and MIL-STD-810 Method 510, for ingress protection and for dust and sand.
SCOPE BOUNDARY	It is the dust and sand chamber: not a rain rig, not a temperature and humidity chamber, and not a salt fog chamber.
STATUS	Neometrix has quoted against successive dust and ingress-protection test requirements, and no delivered dust and sand test chamber is claimed.

DEFENCE PROGRAMMES DESK

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