


Small Device Test Enclosures

 Product Image

Key Features

- Acoustically Controlled Test Environment
- Survey and/or Engineering Grade Measurement
- Applicable Test Standards:
 - ISO 3746
 - ISO 532B
 - ISO 11201
 - GM W7293
 - Additional Test Standards
- Production Line Testing
- Sound Power Testing
- Transmission Loss Testing
- Sound Absorption Testing

ETS-Lindgrens Small Device (SD) Test Enclosures is an acoustic chamber which provides a free-field environment for making survey and engineering grade measurements on small devices. Small device test enclosures are an affordable option when precision grade testing is not required, including acoustic testing for (sound power, sound pressure) levels of automotive components, computer hard drives, fans, pumps, and small mechanical and electric assemblies.

Testing can be conducted using either a single microphone, or a small array of microphones. SD enclosures can also be used with vibration test equipment when required. Four sizes of SD enclosures are available to accommodate most small test objects.

Product Features

Controlled Test Environment

The SD Series isolates and controls acoustic energy to provide the ideal testing environment of small electronics, computer equipment, hearing aids and automotive components.

Survey/Engineering Grade Design

With minimum 10.2 cm (4 in) thick acoustic walls and sound absorbing floor and ceiling, the SD Test Enclosures are ideal for making survey and engineering level measurements on small devices.

Applicable Test Standards

SD Series Test Enclosures meet ISO 3746, ISO 532B, ISO 11201, GM W7293, and additional test standards.

Specifications

Physical Specifications

Model #	Chamber Dims Outside (L x W x H)	Chamber Dims Inside (L x W x H)	Estimated Weight	Door Dims (L x W)	Window Dims (L x W)	Panel Type and Depth
SD	91.4 cm x 86.4 cm x 91.4 cm (36 in x 34 in x 36 in)	71.1 cm x 66.0 cm x 71.1 cm (28 in x 26 in x 28 in)	352.9 kg (778 lb)	61.0 cm x 50.8 cm (24 in x 20 in)	30.5 cm x 30.5 cm (12 in x 12 in)	AS-A504 10.2 cm (4 in)
SD1	111.8 cm x 111.8 cm x 111.8 cm (44 in x 44 in x 44 in)	91.4 cm x 91.4 cm x 91.4 cm (36 in x 36 in x 36 in)	618.2 kg (1,363 lb)	61.0 cm x 61.0 cm (24 in x 24 in)	30.5 cm x 30.5 cm (12 in x 12 in)	AS-A504 10.2 cm (4 in)
SD2	152.4 cm x 152.4 cm x 162.6 cm (60 in x 60 in x 64 in)	121.9 cm x 121.9 cm x 132.1 cm (48 in x 48 in x 52 in)	872.3 kg (1,923 lb)	91.4 cm x 91.4 cm (36 in x 36 in)	30.5 cm x 30.5 cm (12 in x 12 in)	AS-A506 15.2 cm (6 in)

SD3	127 cm x 127 cm x 241.3 cm (50 in x 50 in x 95 in)	106.7 cm x 106.7 cm x 213.4 cm (42 in x 42 in x 84 in)	1,123.1 kg (2,476 lb)	81.3 cm x 203.2 cm (32 in x 80 in)	50.8 cm x 76.2 cm (20 in x 30 in)	AS-A504 10.2 cm (4 in)
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Electrical Specifications

Model #	Features	Options	Applications	Some Applicable Standards
SD	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (4) AS-A504 Walls	Test Stand 5.1 cm (2 in) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner Light (1)	Quality Control Comparative Analysis	ISO 3746 ISO 532B ISO 11201
SD1	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (4) AS-A504 Walls Light (1)	Test Stand 5.1 cm (2 in) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner	Sound Power and Sound Pressure of Auto Parts, Computer Parts, and Small Parts	ISO 3746 ISO 532B ISO 11201 GMW7293
SD2	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (2) AS-A506 Walls Light(1)	Test Stand 5.1 cm (2 in) Melamine Foam Perforated Interior Floor Skin Stainless Steel Liner	Engineering Test of Small Parts	ISO 3746 ISO 532B ISO 11201 GMW7293 MS14011
SD3	For Testing > 500 Hz Solid Steel Floor Cable Ports (2) Vibration Pads (2) AS-A504 Walls Light(1)	Test Stand 5.1 cm (2 in) Melamine Foam Verification Silencers	Head & Torso Testing Speech Intelligibility Codec Scoring End to End Signal Integrity	ISO 3746 ISO 532B ISO 11201

Product Options

- Acoustically Engineered Ventilation System
- Test Stands (Not Available on SD3)
- Interior Light
- Absorptive Mini Wedges
- Interior Perforated Floor
- Stainless Steel Construction
- Light (SD Only)
- Ventilation Silencers (SD3 Only)
- For Custom Sizes and Configurations, Contact ETS-Lindgren

Product Configuration

- Acoustic Walls, Ceiling, and Floor
- Sound Absorbing Perforated Steel Interior (Walls and Ceiling)
- Panelized Floor (Reflective)
- Floor Vibration Rails, SD2 & SD3
- Floor Vibration Pads, SD & SD1
- One (1) 5.1 cm (2 in) Cable Port
- One (1) 2.5 cm (1 in) Cable Port
- Acoustic Door with Window