

Smoke Density Chamber

MODEL: SD-2

SPECIFICATIONS/STANDARDS

ASTM E 662	ASTM F 814
NFPA 258	Boeing BSS 7238
FAR Part 25 Appendix F Part V	Aircraft Materials Fire Test Handbook Chapter 6
Airbus AITM 2.0007 A&B	IMO MSC.61 (67) Annex 1 Parts 1&2
ISO 5659-2	IMO FTCP Part 2
BS 6401	ABD0031

SMOKE TOXICITY MEASUREMENT

Boeing BSS 7239	Airbus AITM 3.0005
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FEATURES/OPTIONS

208-230V 50/60Hz 20A 1P

Stainless steel test chamber coated with corrosion resistant lining

Main/Full front door hinged on right side to protect control console from soot contaminates when open for servicing and cleaning

Specimen access door mounted on main front door and hinged on left side for easy insertion of test specimens while using control console

Easy to change/interchangeable ASTM E 662 vertical furnace and ISO 5659-2 horizontal cone furnace configurations

Smoke measurement monitored and digitally displayed on control panel and in software

Chamber pressure continuously monitored and digitally displayed on control panel

Safety pressure relief blow out panel

Chamber wall is pre-heated for faster start-up and operation

Chamber temperature continuously monitored and digitally displayed on control panel

Powered negative pressure venting of smoke effluents after test

Gas ports provided for measurement of toxic gases

Easy to use instrument control panel in separate enclosure for ease of use and servicing

Computer shelf built into control console resulting in no need for additional space for computer equipment

Pneumatic sample positioner

Removable chamber that can be replaced instead of replacing entire unit and controls

Includes DA-2-1 data acquisition system to record data during test

Optional pneumatic pilot (re)ignition system



DESCRIPTION

SD-2 is the most widely accepted apparatus for the measurement of the smoke produced by burning materials.

SD-2 measures specific optical density under flaming and non-flaming conditions.

The test is performed in a sealed chamber using a heater with or without the use of pilot flames.

The off-gassing smoke from the specimens is measured through optical density sensors.

SD-2 is used for the extraction of toxic gas. Ports for gas measurement are available for specific testing which require toxicity readings.

DIMENSIONS OF INSTRUMENT

Instrument 44" x 32" x 72"

Control console 24" x 48" x 72" Width x Depth x Height

APPROXIMATE SHIPPING WEIGHT AND DIMENSIONS OF PACKED BASE INSTRUMENT

1,160 lbs, 58" x 51" x 89"

685 lbs, 61" x 35" x 86"

FACILITY REQUIREMENTS

Overhead exhaust hood approximately 56" x 40" with 100-300 SCFM exhaust capacity

Propane supplied at 5-15 psi, 50-100 cc/min

Compressed air supplied at 80 psi, 500 cc/min max flow