



innovative solutions

3 mts Cube Smoke Density Apparatus As per IS: 10810 (Pt.63), IEC:1034-1 etc Model No : SSI 517 SDIE



An ISO 9001:2008 Company
GMP compliant

Smoke Density Apparatus is used for measuring & observing the relative amount (Density) of smoke produced by the burning (combustion) or decomposition of Plastic, Cables etc. under controlled conditions.

The sample is burned under controlled conditions by alcohol fire. A light source and a photo receptor is placed on either side of the chamber, and the percentage of light absorbed is displayed through a linear amplifier digital electronic photometer with 0 to 100% absorbance scale.

The instrument is manufactured as per the IEC specification and also confirms various other international standards. The instrument comprising of



Mixing Fan



Receptor



Photo Cell



Interface



Power Supply



Exhaust Fan



Fuel Tray &
Sample Stand



3 m Chamber

S.S. INSTRUMENTS PVT. LTD.

TRIVENI COMPLEX, E-10-12, JAWAHAR PARK,
LAXMI NAGAR, DELHI 110 092

Ph: +91 (11) 2242 5415, Telefax: +91 (11) 2244 0417,

Email: info@ssinstruments.com, Web Site: www.ssinstruments.com



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The Instruments Consists of

- ✦ A Single walled 3m x 3m 3 m Chamber (powder Coated for long life). The Chamber is constructed on Aluminum Columns and 2mm thick GI Sheets. This ensure no rust formation on the chamber
- ✦ Door to access the chamber from inside with glass window
- ✦ Alcohol Tray as per specifications
- ✦ Sample Stand
- ✦ Mixing fan inside the chamber along with Sheet shielding as per specifications
- ✦ Constant DC power supply to produce 12 V DC for the light source
- ✦ Light source 12 V DC to form light spot of 1.5m dia on the photometric system wall.
- ✦ Electronic Photometric System to capture and display the % Transmission of light. Consist of Photo Cell and Receptor
- ✦ A to D Card and interface for the computer
- ✦ New laptop with Original windows Software and one inkjet printer.
- ✦ Specially developed Software to capture % transmission from the photometric system. After the test the results can be displayed in tabular / graph form
- ✦ Double walled Chamber for strength (optional)

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