

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



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.



Mixing Fan



Photo Cell



Light Source



Exhaust Fan



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Fuel Tray & Sample Stand

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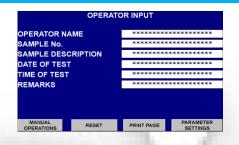
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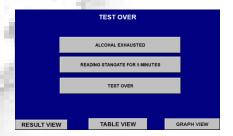












TEST RESULT WINDOW					
INTIAL TRANSMITTANCE(Io)			12.3		
FINAL TRANSMITTENCE(It)			12.3		
AVERAGE TRANSMITTENCE			12.3		
NO. OF CABLES			1234		
MEASURED ABSORBANCE Am = log10(lo/lt)			12345.67		
STANDARD ABSORBANCE Ao =( Am X CUBE FACTOR/ No. OF C ABLE)		;	12345.67		ı
GRAPH VIEW	TABLE VIEW	N	EW TEST	PRIN	T PAGE

PHOTOCELL LIGHT SOURCE CHAMBER LIGHT AIR FAIL

DAMPER CLOSE STEPPER REVERSE

OPERATOR PANEL

PARAMETER SETTINGS



Individual screen can be saved on pen drive and transferred to computer

The Screen may differ in the final product due to development in software

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## The Instruments Consists of

- → A 2mm thick walled chamber 3m x 3m 3 m Chamber (powder Coated for long life). The inner chamber is constructed on Columns and 2mm thick GI Sheets. This ensure no rust formation on the chamber. The outer chamber is made of Aluminum composite sheet for long life. (Optional)
- 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
- Specially developed Software to capture % transmission from the photometric system. After the test the results can be displayed in tabular / graph form

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