

## 3 mts Cube Smoke Density Apparatus As per IEC:61034-1 Model No SSI 517 SDIE SCA



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



Fuel Tray & Sample Stand

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S.S. INSTRUMENTS PVT. LTD.



## 3 mts Cube Smoke Density Apparatus As per IEC:61034-1 Model No SSI 517 S



## The Instruments Consists of

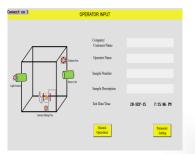
- → A Single walled chamber 3m x 3m 3 m Chamber (powder Coated for long life). The chamber is constructed on Columns and 2mm thick GI Sheets. This ensure no rust formation on the chamber.
- Door to access the chamber from inside with glass window
- Alcohol Tray as per specifications
- Sample Stand
- 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
- Specially developed Software to capture % transmission from the photometric system. After the test the results can be displayed in tabular / graph form

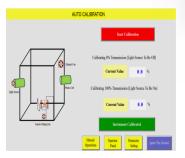




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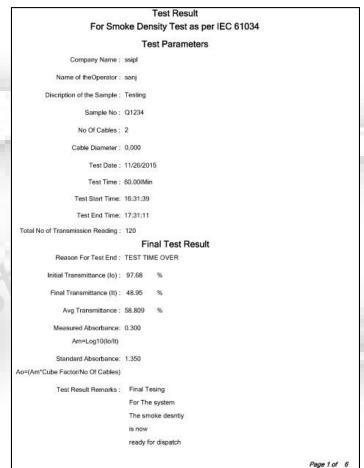


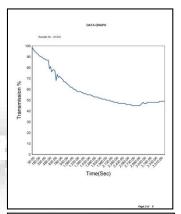












97.580
96.354
95.138
94.385
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91.934
91.050
89.834
89.613
88.840
88.177
87.735
67.182
86.961
86.630
78.564
81.326
76.133
77.580
77.901
77.017
67.624
74.254
70.829
72.265
71.050
69.834
68.729
67.403
66.740
65.525
64.751
63.546
63.094
61.989
61.878
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