

3 Metre Cube Smoke Density Test Apparatus

Application:

3 Metre Cube Smoke Density Test Apparatus is used for measuring the emission when the cable or optical cable is placed horizontally under the definite fire condition. The equipment comprises a cubic enclosure and a photometric system.

The specified standard fire source (ethanol 90±1%, methanol 4±1% and distilled water 6±1%) 1L±0.01L is burned.

IEC 61034 - 1 & 2 Measurement of Smoke density of cables burning under defined condition

BS 6853 Code of practice for fire precautions in design and construction of passenger carrying trains

Product description:

- Chamber internal size is 3,000mm(W) × 3,000mm(D) × 3,000mm(H).
- Its configured with a door with test glass windows and in both faces of the opposite side theres a sealed transparent window (minimum 100mmX100mm) .
- Support system to allow separate fitting of Light Source and Photocell in the outer wall.
- The Light Source is Dedolight Classic Series Tungsten with 100W.
- The Dedolight Tungsten power supply is 12V DC.
- Velocity of light : 2000 lm~3000 lm, and color temperature : 2800K~3200K.
- The Receptor Photocell is silicone type and has a spectrum reaction conform to Photopic Observer (similar to a human eye) of the International Commission on Illumination (CIE).
- Supplied with customized extraction facilities and all instrumentation, fans, stands and sample mounting frames.
- Software shows testing results including the inner chamber temperature, light transition etc.

Standards:

BS: BS 6853 appendix D

IEC: IEC 61034-1&2: 2005

