

Product Name :
Heat Release And Mass Loss Calorimeter

Product Code :
ENGLABINGCAG900005



Description :

Heat Release And Mass Loss Calorimeter

Technical Specification :

The Heat Release apparatus measures time to ignition, mass loss and heat-release rate (option) of specimens exposed in the horizontal orientation to controlled levels of irradiance with an external igniter.

On the front panel, the following are mounted:

Temperature Controller

Load cell controller

Tare button

Control switches comprising four red on/off push-button switches, which operate by firm pressure and light up when activated:

Power switches on mains electricity to the unit

Cone switches on the Eurotherm controller. This, in turn, energises a solid state relay, which switches the power to the cone heater (5kW)

Ignition switches on the spark-generator circuit housed in the test chamber base

Load cell switches on the Newport controller

Specification

Manufactured from stainless steel for long life

Retainer edge frame stainless steel with inside dimension 111 111mm, and opening of 94 94mm

Three control thermocouples for the cone heater to maintain accurate heat flux

Special split shutter mechanism is designed to prevent heating of the sample before the test is started

Spark assembly is used in conjunction with the shutter mechanism. Microswitches are fitted to the spark arm and the shutter mechanism for safe operation

Sample weight measurement is by a strain gauge load cell with quick electronic tare facility

Specimen holder square pan 106 106mm at the top, and a height of 25mm, constructed from stainless steel

Sample size up to 100 100mm

Sample thickness up to 50mm

Balance sensitivity Load capacity up to 2.0kg

Control unit contains switches for power, ignition, load cell and cone heater

Temperature controller for ramp and control of cone heater

5kW electrical heating element

Heat flux up to 100 kW/m²

Heat shield placed between the cone heater and specimen

Load cell controller with weight ranging facility to improve performance to suit weight of sample (0-500g).

Features

Fire model manufactured from stainless steel for long life

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Engineering Lab Equipment India