THERMOMETRY

ASTM E162/D3675

ASTM E162 | ASTM D3675 | UL 94 Radiant Panel Test



SCOPE

The ASTM E162/D3675 fire tester is used to measure the surface flammability of materials and products. The specimen is heated by a radiator and then additionally exposed to a flame.

PRINCIPLE

The specimen, which is inclined at an angle of 30° to the vertical, is heated by a vertically arranged radiant heater. At the upper edge closer to the radiator surface, the specimen is ignited by a burner.

FEATURES

Gas control and measurement data recording by PC software

Integrated timer with cable remote control

Device layout with extensive operator safety

Pilot flame monitoring of all burners and radiant heaters

Pneumatic swivel drive pilot burner

Integrated control cabinet

Electrical ignition of the radiant heater with automatic start Specimen holder holder with linear guide

COMPONENTS

Test bench ASTM E162/D3675 incl. control cabinet, pyrometer and fume stack with 8 Thermocouples Specimen holder with backplate Calibration board holder with backplate PC with preinstalled device software ASTM E162/D3675 and operating system MS Windows 10 Pilot flame burner ASTM E162 & ASTM D3675 Calibration burner Anemometer

DIMENSIONS

Manual

Width x depth x height: 1500 mm x 1605/ca. 850 mm* (Pyrometer unfolded/folded) x 2065 mm* Installation room: Width x depth x height: 2000 mm x 2600 mm x 2315 mm (Lower edge hood)* Weight: approx. 250 kg*

SUPPLIES

Electric current 100-230 VAC 50/60 Hz Propane / Acetylene / Methane gas, purity \geq 2.5 Compressed air, oil free

FLOW CONTROLLERS & VALVES GASES

Propane radiant heater: Flow controller electronically operated, 2/2-way solenoid diaphragm valve electric Acetylene Pilot flame burner: Flow controller electronically operated, 2/2-way solenoid diaphragm valve electric Methane Calibration burner: Flow controller electronically operated, 2/2-way solenoid diaphragm valve electric Compressed air: Flow controller electronically operated, Solenoid valve

SENSORS

Thermocouple Type K, Radiant heater
Thermocouple Type K, Pilot flame burner ASTM E162
Thermocouple Type K, Pilot flame burner ASTM D3675
8 Thermocouples Type K, Fume stack
Thermocouple Type K, Calibration burner
Pyrometer radiant heater temperature measurement
Anemometer handheld

TO BE PROVIDED BY THE CUSTOMER

Fume hood, cross-section min. 662 x 739 mm, with adjustable fan, air velocity approx. 0.5 m/s, height adjustable, lower edge approx. 2315 mm above ground.

OPTIONAL ACCESSORIES

Additional specimen holders
Pilot flame burners for 3 gases (Acetylene/Propane/Methane)

* Our products are constantly being further developed. For this reason, the actual dimensions may vary.

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