ASTM E162/D3675

ASTM E162 | ASTM D3675 | UL 94 Radiant Panel Test

SCOPE

The test device ASTM E162 / D3675 is used to measure the flammability of materials and products. The specimen is heated by a radiant panel heater and then additionally exposed to a flame.

PRINCIPLE

The specimen, which is inclined at 30 ° to the vertical, is heated by a radiator arranged vertically. The specimen is ignited with a burner at the upper edge, which is closer to the radiator surface.

FEATURES

- Gas control and measurement data recording through PC software
- Integrated timer with cable remote control
- Device layout with the greatest possible operator safety
- Flame protection on all burners and on the heater
- Pneumatic swivel drive pilot burner
- Integrated control cabinet
- Electric ignition of the heater with automatic start
- Specimen holder with linear guide

SCOPE OF DELIVERY

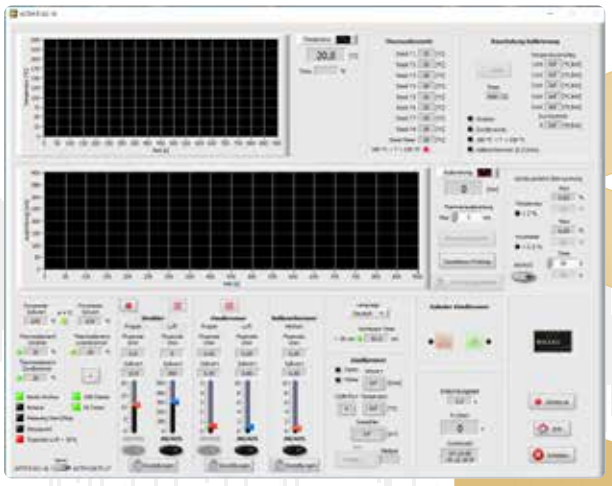
Test device ASTM E162/D3675 including control cabinet, pyrometer and hood with 8 thermocouples
Specimen holder with back plates
Calibration specimen holder with back plate
PC with pre-installed device software ASTM E162 / D3675 and operating system MS Windows 10, keyboard, mouse
Pilot burner ASTM E162 & ASTM D3675
Calibration burner
Anemometer
Operating manual

DIMENSIONS

Width x depth x height: 1500 mm x 1605/approx. 850 mm* (Pyrometer unfolded/folded) x 2065 mm*
Spatial requirements Width x depth x height 2000 mm x 2600 mm x 2315 mm (bottom edge exhaust system hood)*
Weight: approx. 350 kg*

SUPPLIES

Electrical current 100-230 VAC 50/60 Hz, 150 VA
Methane gas, purity ≥ 2.5
Acetylene
Propane (optional)
Compressed air, oil-free



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SAFETY

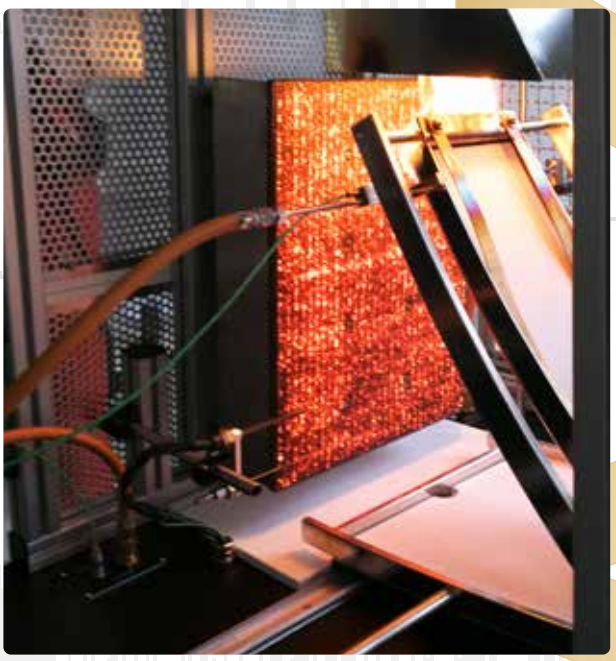
2 emergency stop switches
Heater housing
Flame protection heater, pilot burners and calibration burner by thermocouples
Remote automatic ignition of the heater

TO BE PROVIDED BY THE CUSTOMER

Exhaust hood, profile min. 662 x 739 mm, with adjustable fan, air velocity approx. 0,5 m/s, height adjustable, bottom edge approx. 2315 mm above floor

OPTIONAL ACCESSORY

Additional specimen holders
Radiant heater fueled with propane
Pilot burner for 3 gases (Acetylene/Propane/Methane)



MASS FLOW CONTROLLERS AND VALVES

Propane heater: mass flow controller electronical controlled, 2/2-way solenoid valve electrical
Acetylene pilot burner: mass flow controller electronical controlled, 2/2-way solenoid valve electrical
Methane calibration burner: mass flow controller electronical controlled, 2/2-way solenoid valve electrical
Compressed air: solenoid valve, mass flow controller electronical controlled, 2/2-way solenoid valve electrical

SENSORS

Thermocouple Type K, Heater
Thermocouple Type K, Pilot burner ASTM E162
Thermocouple Type K, Pilot burner ASTM D3675
8 Thermocouples Type K, Hood
Thermocouple Type K, Calibration burner
Pyrometer heater temperature measurement
Anemometer Handheld

* Our products are constantly evolving. For this reason, the actual dimensions may differ.

理寶 LIBERO Testing Equipment 測試設備

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