

THERMOMETRY

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

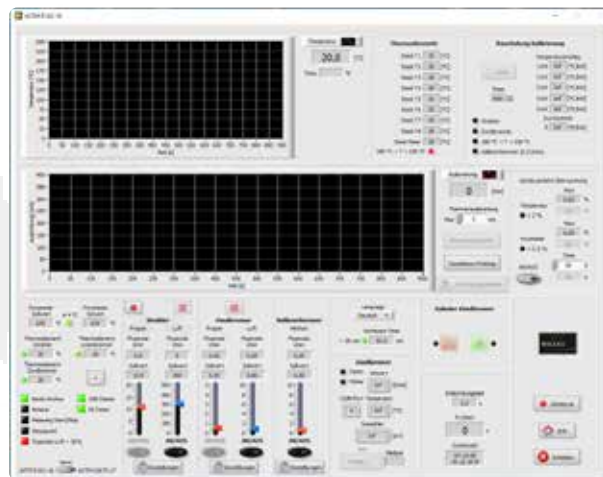
Test device ASTM E162/D3675 including control cabinet, pyrometer and hood with 8 thermocouples
Specimen holder with back plates
Calibration specimen holder with back plate
PC with pre-installed device software ASTM E162 / D3675 and operating system MS Windows 10, keyboard, mouse
Pilot burner ASTM E162 & 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 electrical controlled, 2/2-way solenoid valve electrical

Acetylene pilot burner: mass flow controller electrical controlled, 2/2-way solenoid valve electrical

Methane calibration burner: mass flow controller electrical controlled, 2/2-way solenoid valve electrical

Compressed air: solenoid valve, mass flow controller electrical controlled, 2/2-way solenoid valve electrical

SENSORS

Thermocouple Type K, Heater

Thermocouple Type K, Pilot burner ASTM E162

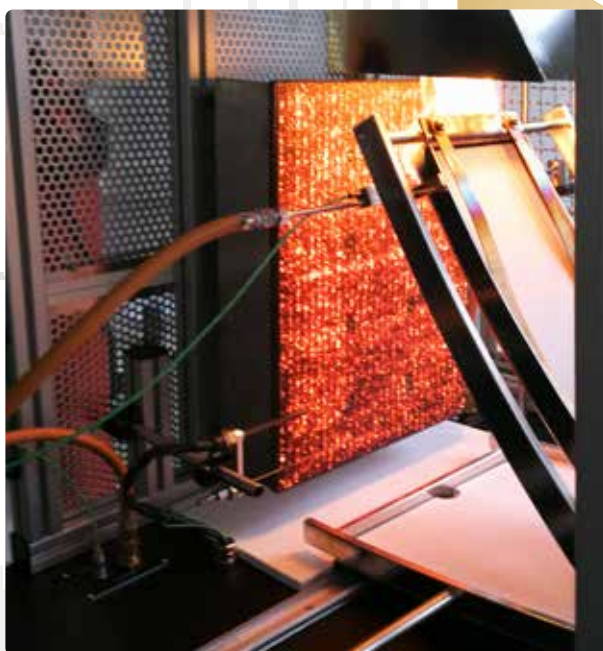
Thermocouple Type K, Pilot burner ASTM D3675

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.

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