

TE-12 Flame Heat Exposure Tester

Purpose:

Apparatus is intended for determination of heat transmission through materials or material assemblies used in protective equipment when exposed to flame

Apparatus is made according to the requirements and apply for the tests according to the following standards:

EN ISO 9151 Protective clothing against heat and flame – Determination of heat transmission on exposure to flame

Description of the device:

The device consists of frame made of stainless steel, burner for propane gas with precise regulator positioned 50 mm below the top face of the specimen support frame, engine rotation and bringing in position of support stand (with calorimeter, calorimeter mounting block, calorimeter location plate, and specimen support frame with specimen) and shutter (protection of the flame) in the time stipulated with standard, calibration of 80 kW/m², LCD display for all settings and measurement results, USB output for data storage and safety power turn-off.

Dimension: (L) 450 x (W) 550 x (H) 600 mm;

Weight: 25 kg;

Power supply: 230 V~50 Hz;

Operating principle:

Activate and ignite the gas supply and allow several minutes for flame stabilization and then calibrate incident heat flux density to 80 kW/m² ± 5%. Put the outermost layer of the specimen face downwards on the specimen support frame and place the calorimeter location plate on top of the specimen. Start testing and keep it until a temperature rise of (24 ± 0,2) °C is observed (also, the time in seconds for a 12 °C temp rise is reported).

