## Technical Specifications



Measurement methodDetermination the performance of roofs to external fire exposure – Test 3 with exposure to incendiary devices, wind and additional radiant heat according to DIN CEN/TS 1187Base frame, consists of a base frame and a slide system for the radiant heater panel= Base frame, consists of a base frame and a slide system for the radiant heater panelSetup= Sample holder = Separate, mobile frame for wind generator and gas hose routing = Mobile control unitHeating unit= Radiant panel, framed by stainless steel; outer dimensions (W × H) 750 mm × 750 mm = Consisting of four individual square surface radiant heater elements, each 300 mm x 300 mm, fed with propane = Equipped with four ignition electrodesIncendiary device*= Grids made from wood fiber insulation boards; (W × D × H) 55 mm × 55 mm × 32 mm; nailed = Soaked in n-heptane = To be lit with a gas burnerWind generator= Radial fan Elektror Type S-LP 215/92 with frequency converter = Height-adjustable fan box, stainless steel; (W × H) 1500 mm x 3000 mm = Mounted on sample carrier trolley = Manually, hydraulically angle-adjustable sample frame for stepless adjustment of the inclination angle of the sample (0-50 °)Sample holder= Consisting of 3 units = Gas mixing system; generate fuel gas/air mixtures; gas supply of radiant panel = Electrical control control ing the wind generatorMeasuring and control unit= Consisting of 3 units = Gas mixing system; generate fuel gas/air mixtures; gas supply of radiant panel = Electrical control control ganel and ignition electrodes = Electronics box for controlling the wind generator
Setuppanel Sample holder Separate, mobile frame for wind generator and gas hose routing Mobile control unitHeating unitRadiant panel, framed by stainless steel; outer dimensions (W × H) 750 mm × 750 mmHeating unitConsisting of four individual square surface radiant heater elements, each 300 mm x 300 mm, fed with propane Equipped with four ignition electrodesIncendiary device*Grids made from wood fiber insulation boards; (W × D × H) 55 mm x 55 mm x 32 mm; nailed Soaked in n-heptane To be lit with a gas burnerWind generatorRadial fan Elektror Type S-LP 215/92 with frequency converter Height-adjustable fan box, stainless steel with 1.0 m wide nozzle outlet and guide plate; with adjustable angleSample holderInclinable sample frame, stainless steel; (W x H) 1500 mm x 3000 mm Mounted on sample carrier trolley Manually, hydraulically angle-adjustable sample frame for stepless adjustment of the inclination angle of the sample (0-50 °)Measuring and control unitGas mixing system; generate fuel gas/air mixtures; gas supply of radiant panel Electrical control cabinet/gas control panel with touch screen for control of radiant panel and ignition electrodes
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Incendiary device*(W x D x H) 55 mm x 55 mm x 32 mm; nailed Soaked in n-heptane To be lit with a gas burnerWind generatorRadial fan Elektror Type S-LP 215/92 with frequency converter Height-adjustable fan box, stainless steel with 1.0 m wide nozzle outlet and guide plate; with adjustable angleSample holderInclinable sample frame, stainless steel; (W x H) 1500 mm x 3000 mm Mounted on sample carrier trolley Manually, hydraulically angle-adjustable sample frame for stepless adjustment of the inclination angle of the sample (0-50 °)Measuring and control unitConsisting of 3 units Gas mixing system; generate fuel gas/air mixtures; gas supply of radiant panel Electrical control cabinet/gas control panel with touch screen for control of radiant panel and ignition electrodes Electronics box for controlling the wind generator
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Sample dimensions (W x H) 1200 x 3000 mm
Software integrated touch panel HMISTU855; Touch panel screen 5 "7 color; analogue; for automatic and manual control of all individual components
<ul> <li>Measuring and control unit (W x D x H) 1000 x 1000 x 1950 mm<sup>3</sup></li> <li>T3 (W x D x H) 1800 x 5500 x 3000 mm<sup>3</sup></li> <li>Weight: approx. 1700 kg</li> </ul>
Power supply* = Input: 3x 400V 50Hz (3,5A/1,5kVA) = Supply: 5x 2.5mm <sup>2</sup> (16A)
Operating materials* = Water: for cooling of the Schmidt-Boelter heat flux meter = n-heptane: for soaking of the icendiary devices
Gas supply* Propane; required pressure: 300 mbar