## NTA · 0921 · Technical specifications are subject to change.

## Technical Specifications



	TDP T4 – Fire Testing Device for Roofs
Measurement method	Determination of the performance of roofs exposed to external fire – Test 4 with two stages incorporating burning brands, wind and supplementary radiant heat in accordance with DIN CEN/TS 1187
Heating unit	<ul> <li>Radiant panel, framed by stainless steel; outer dimensions (W x H) 915 mm x 915 mm</li> <li>Consisting of four individual square surface radiant heater elements, each 300 mm x 300 mm, fed with propane</li> <li>Equipped with four ignition electrodes</li> </ul>
Burner	<ul> <li>Burner lance; length of 2300 mm</li> <li>Fed with city gas</li> <li>With needle valve, pressure reducer and gas supply hose</li> </ul>
Sample holder	<ul> <li>Mobile sample carrier trolley; stainless steel</li> <li>Semicircular sample cover; opening on the top; stainless steel; with fireproof observation window; slewable</li> <li>Metal sample holding frame</li> </ul>
Measuring and control unit	<ul> <li>Consisting of 3 units</li> <li>Gas mixing system; generate fuel gas/air mixtures; gas supply of radiant panel</li> <li>Electrical control cabinet/gas control panel with touch screen for control of radiant panel and ignition electrodes</li> <li>Control panel; Rittal electronic box; for control of individual device components</li> </ul>
Sample dimensions	(W x H) 840 mm x 840 mm (± 10 mm)
Software	Integrated touch panel HMISTU855; touch panel screen 5 "7 color; analog; for automatic and manual control of all individual components
Instrument dimensions	<ul> <li>Measuring and control unit (W x D x H) 1000 x 1000 x 1950 mm<sup>3</sup></li> <li>T4 (W x D x H) 2350 x 1700 x 2750 mm<sup>3</sup></li> </ul>
Power supply*	<ul> <li>Input: 3x 400V 50Hz (3,5A/1,5kVA)</li> <li>Supply: 5x 2.5mm² (16A)</li> </ul>
Media supply*	Water for cooling the Schmidt-Boelter heat flux meter
Gas supply*	<ul><li>Propane; required pressure: 300 mbar</li><li>City gas (55.2% hydrogen, 27.4% natural gas, 17.4% nitrogen)</li></ul>