Technical Specifications



	SBI 915 – Single Burning Item
Measurement method	By a single burner item in accordance with EN 13823, Euroklassen A2, B, C and D
Assembly frame	 Welded square tube construction, steel, painted, RAL 7012 Lined with calcium silicated panels, T: 2.0 cm Dimensions (H x W x D): 245 cm x 148 cm x 148 cm
Auxiliary burner*	 Stainless steel, firmly mounted to the assembly frame Sample protection shield of calcium silicate Check valve, ignition burner, flame detector Dimensions (W x D): 35 cm x 55 cm ± 0.5 cm
Collector	 Insulation with mineral fiber plates, 5.0 cm 2 air shields mounted with the exhaust hood Dimensions (H x W x D): 70 cm x 58 cm x 58 cm

Technical Specifications



Specimen Trolley		
Main burner*	Check valve, ignition burner, flame detector	
Sample dimensions	■ Max. specimen thickness (W): 20 cm ± 1.0 cm	

Gas Supply Control		
Gas installation	Controller for pressure and mass flowMagnetic and stop vavles	
Total weight	1295 kg	

Test Chamber		
Test chamber walls	 Knob W111 F30 Ceiling self-supporting, max. load: to 100 kg/m² 	
Railing	Steel, coated, mounted on the test chamber	
Dimensions (W x D x H)	320 cm x 320 cm x 250 cm	
Weight	1325 kg	

Process fan	 Directly driven radial fan 90 kg, 400V/50Hz, d_p = 336 Pa, P = 1,1 KW V = 0.5 m³/s - 1 m³/s, infinitely variable Base frame 600 mm x 600 mm
Dimensions (W x D x H)	600 mm x 600 mm x 650 mm
Weight	145 kg
Power fupply	380 V, 50 Hz

^{*} Gas to be provided by the user

Technical Specifications



	'SBI Control' Measuring and Control Unit
Controller	Colour Touch Screen 10,1",1280 x 800Single Board Computer with 32 GB SSD memory
Temperature measurement	 4x inputs for thermal voltage Measurement range -100°C – 1300°C, resolution: 0.1 K Cold junction compensation
MFC control	2x digital outputs (RS232) for MFC1/MFC2
Gas control	 Valves for propane, main burner, auxiliary burner Valves for calibration gas and zero gas Valves for measuring gas and pump measuring gas
Peltier cooler & flame control	2x inputs for flame control1x control Peltier coller, gas processing
Differential pressure and light measurement	■ 16 bit ADC, measurement range: ±10 V, resolution 1mV
Measuring light receiver	 Silicon photo receiver Spectral filter with CIE distribution Dimension (I x Ø) 190 x 40 mm
Measuring light transmitter	 Halogen point light sourcee 10 W, 2900 K color temperature Beam diameter 25mm, d/f = 0.0375 Dimensions (l x Ø) 190 x 40 mm
Gas processing	 Particle filter Measurement gas pump 60-300 l/min Measurement gas cooler, Peltier cooler to -10°C with condensate outlet and collectin vessel Container for drying agent (Drierite), plugale
Analyzer	 SIEMENS ULTRAMAT/OXYMAT 6E Measurement components O₂, CO₂, dispaly in Vol % Operation monitoring error message 19" rack, 3HE
Overal I structure	19" industry cabinetDimensions (W x D x H): 65 cm x 65 cm x 175 cm
Weight	168 kg

SBI Software

Software for measured value acquisition, processing and presentation for test systems in accordance with DIN EN 13823 under Windows 7/8.1/10 operating systems

Graphical and numeric presentation of all measured values