# SBI – Single Burning Item

## Fire-testing system for determining the reaction of building products to fire when exposed to thermal attack by a single burning item, in accordance with EN 13823

The SBI from NETZSCH TAURUS Instruments GmbH is easy to operate, offering innovative control and data acquisition options in an intuitive format with ample user guidance. The high-resolution color touch display on the “SBI Control“ cabinet allows for measuring and control with the integrated Single Board Computer, Windows operating system and SBI software. There is thus no longer any need for manual controls such as switches, controllers or buttons; the status of the testing system is clearly displayed and the systems prevents any critical operating errors. The storage, analysis and recording of all test data is handled entirely via the control unit. Well thought-out details along with the use of high-quality materials guarantee the SBI test system a long product life and a low degree of wear and tear.

## Features at a Glance

* Base frame with calcium silicate lining
* Furnace with specimen trolley, exhaust hood, collector, measuring section, gas installation (gas installation with digital gas flow controller, pressure regulators and magnet valves), burners and sensors
* Test chamber, drywall installation with 2 windows, door, security ladder and railing (accessible)
* Specimen trolley with calcium silicate lining
* Insulated extraction hood and collector made of stainless steel for protection from aggressive gases
* Main and auxiliary burners of stainless steel with filling, ignition device and flame detector
* Test chamber with 2 windows, door and handrail, accessible for service purposes
* Exhaust radial fan with volume flow control for constant exhaust flow
* Components for measuring data acquisition and control of all processes
* High-resolution color display with intuitive icons and menu functions
* Insulated measuring tube section with bidirectional probe, NiCrNi thermocouples, light measurement system and gas sampling probe
* Process fan with frequency converter and digital control module
* “SBI Control“ measuring and control unit with SBC, 32-GB SSD, SIEMENS gas analyzer, measuring gas processing, measuring and control modules and RS232 interface
* 19“ PC rack, PC, monitor, printer
* Various options and accessories for extension of the exhaust system and calibration of the SBI system
* Single license for the SBI software