

# THERMOMETRY

## DIN 4102-15

### DIN 4102-15



#### SCOPE

The "Brandschacht" according to DIN 4102-15 is used to determine the fire behavior of building materials and building elements.

#### PRINCIPLE

4 specimens are arranged chimney-like in a fire chamber around a square burner. The fire chamber is supplied with a defined air flow from below. A defined methane/air mixture fires the burner. The temperature and smoke density of the rising fire gases are measured at the top of the fire chamber. The pressure generated in the fire chamber is also measured.

#### FEATURES

The gas control of the device is software-controlled electronically.  
Specimen carrier trolley for easy setup of the specimen carrier

#### COMPONENTS

Supply air inlet section with electronic volume flow measurement, temperature measurement and fan  
Fire chamber with chamber pressure and temperature measurement (exhaust gas, fire chamber wall, reference temperature), burner with ignition device  
Light measurement section  
Specimen carrier  
Specimen carrier trolley  
Control cabinet with electronic flow controllers methane/compressed air  
PC, monitor, keyboard, mouse  
Software: Windows 10 Professional, DIN 4102-15, MCC DAQ

#### DIMENSIONS

Fire shaft without exhaust air duct (W x D x H): approx. 1000 x 1000 x 3150 mm\*  
Supply air duct (W x D x H): approx. 900 x 900 x 2800 mm\*  
Control cabinet (W x D x H): approx. 550 x 500 x 850 mm\*  
Total installation area (W x D): approx. 4250 x 2000 mm\*

#### SUPPLIES

Electricity 230 VAC  
Methane, purity  $\geq 99\%$   
Compressed air, 6 - 8 bar

#### TO BE PROVIDED BY THE CUSTOMER

Exhaust air system

\* Our products are under constant development. For this reason, the actual dimensions may vary.