

THERMOMETRY

DIN EN 61034-1

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SCOPE

Measurement of smoke density in relation to evacuation of people and accessibility for firefighters.

PRINCIPLE

Cable and line sections of 1000 mm length are placed over a trough filled with an alcohol mixture. The alcohol is then ignited and the resulting smoke is mixed with the combustion chamber air by means of a fan. A photometric system measures the smoke darkening.

SPECIAL FEATURES

Software controlled calibration, electronic data recording

COMPONENTS

Fire chamber 27 m³ with door and screen
Sample rack
Trough
Fan
Photometric system
Laptop with installed software and touchscreen

DIMENSIONS

Width x depth x height: 3320 x 3320 x 3250 mm*
Weight: approx. 1500 kg*

SUPPLIES

Electric voltage 230 V AC 50/60 Hz
Alcohol mixture of 90 % Ethanol, 4 % Methanol and 6 % water as fire source
Toluene with a purity > 99,5 %

TO BE PROVIDED BY THE CUSTOMER

Abluftanschluss mit Absaugung DN 400,
Stromanschluss 230 VAC 50/60 Hz
Level, fireproof and load-bearing floor

SPATIAL REQUIREMENTS

Floor with sufficient load-bearing capacity for the point loads arising from the fire chamber.
Installation room approx (w x h x d)= 5000 x 4000 x 4000 mm

OPTIONAL ACCESSORY

Video camera

* Our products are constantly being further developed. For this reason, the actual dimensions may vary.