IEC 61034-1

IEC/ EN 61034-1

SCOPE

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

PRINCIPLE

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

FEATURES

Software controlled calibration, electronic measurement and data logging

SCOPE OF DELIVERY

Combustion chamber 27 m^3 with door and windshield (Aluminum profile frame, aluminum sheet wall pannels, aluminum checker plate floor)
Specimen rack, stainless steel
Trough, stainless steel
Fan
Light measuring system (halogen lamp 100W / 3600 lm / 3200 K, silicium photo cell/ output voltage 40 mV non-linear / effective output voltage under test room conditions 3,5 mV.)
Laptop with software installed and touchscreen

DIMENSIONS

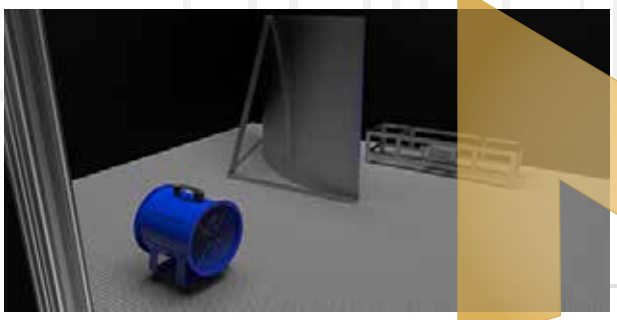
Width x depth x height: 3320 x 3320 x 3250 mm*
Weight: approx. 1000 kg*

SUPPLIES

Electrical current 230 V AC 50/60 Hz
Alcohol mixture of 90 % ethanol, 4 % methanol and 6 % water as fire source
Toluene of a purity > 99,5 %

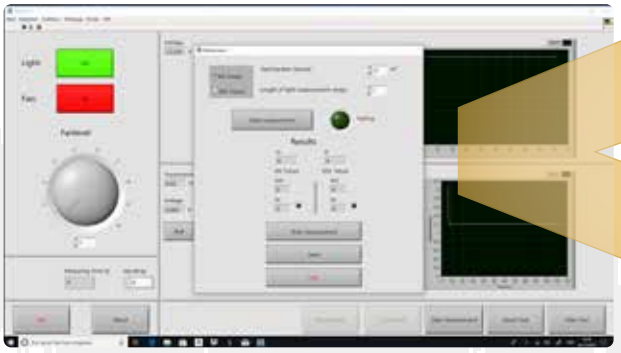
TO BE PROVIDED BY THE CUSTOMER

Exhaust duct with extraction DN 40
Power supply 230 VAC 50/60 Hz
A level, fireproof and stable underground



SPATIAL REQUIEREMENTS

Floor with sufficient load-bearing capacity for the point loads from the combustion chamber
Installaiton area approx. 5000 x 4000 x 4000 mm



OPTIONAL ACCESSORY

Video camera

*Our products are constantly evolving. For this reason, the actual dimensions may differ.

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DR. - ING. GEORG WAZAU Mess- + Prüfsysteme GmbH Keplerstraße 12 D-10589 Berlin Germany
Internet: www.wazau.com Email: vertrieb@wazau.com Phone +49-30-344-30-88/89 Fax +49-30-344-1976