

THERMOMETRY

RPD – DIN EN 13274-4

EN 13274-4, Method 2 & 3



SCOPE

The device is used to determine the effect of flames on respiratory protective equipment such as respirators. It is tested whether the specimen starts to burn or whether other hazards may occur for the user.

PRINCIPLE

A specimen is placed in a specimen holder or attached to a test head. In method 2, the specimen is passed over the burner for a defined period of time and then withdrawn. In method 3, the specimen is then drawn over the propane gas burner, which has a temperature of approx. 800 °C, at a speed of 60±5 mm/s. This is done in various burner positions. The burner can be moved in depth for this purpose. The specimen is moved by a spindle drive on a linear guide.

FEATURES

The test procedure is software controlled. After clamping the specimen, it is moved over the burner at the push of a button. Specimen holder and burner are moved horizontally by means of an electric linear drive. The specimen holder can be moved manually in height.

The unit is enclosed on 5 sides and can optionally be fitted with a cover with a DN 150 exhaust flange

COMPONENTS

Test device with 2 specimen holders, test head, electric linear drive and thermocouple
Control unit with solenoid valve
Notebook
Software
Windows 10
DIN EN 13274-4
MCC DAQ
Manual

DIMENSIONS

approx. 950 x 850 (1270 with hood) x 680 mm (w x h x d)*
Weight: approx. 80 kg*

SUPPLIES

Electric voltage 100-230 VAC, 200 VA
Propane, purity > 95%

GAS CONTROL

Fine control valve mechanical, solenoid valve

SENSORS

Thermocouple type K (flame temperature),
proximity switch linear drive specimen holder/burner
room temperature, humidity

TRAVERSE SPEED SPECIMEN

60 ± 5 mm/s

TO BE PROVIDED BY THE CUSTOMER

Exhaust air system or fume hood

OPTIONAL ACCESSORY

Hood with exhaust flange DN 150
Specimen holder according to customer specification

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