

Effect of Heat and Air on a Moving Film of Asphalt



Loss on Heat / Rolling Thin Film Oven

- Conforms to the specifications of: ASTM D2872; AASHTO T240
- Touch Screen Display with 4.5" color control panel
- Timer Function
- Visual Warnings
- Digital Air Flow Control

Double-walled electrically heated convection oven for rolling thin film oven tests on asphalts. Incorporates all required features per ASTM specifications, including: door with double-pane viewing window; symmetrical top and bottom vents; air plenum; squirrel cage-type 1725rpm fan; digital indicating thermostat to control oven temperature at $163^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$; vertical circular carriage to mechanically rotate the samples at $15 \pm 0.2\text{rpm}$; air jets to blow heated air into each sample bottle at its lowest point of travel; and a calibrated flowmeter to control air flow at 4000mL/min . An overtemperature cut-off circuit disconnects power to the unit in the event of control failure.

Safety Features

Automatic Over-Temperature Switch
Door Switch
Pilot Lamp and Alarm for Door Open with Fan still running
Magnetothermic Switch

Test Method

Determines the effect of heat and air on a moving film of asphalt to serve as an indicator of approximate change in properties during conventional hot-mixing. The results are reported in terms of the changes in selected properties such as viscosity, penetration and ductility brought about by the RTFO test, as evidenced by test data taken before and after the 75 minute oven cycle.

Specifications

Conforms to the Specifications of:
ASTM D2872; AASHTO T240
Power: 3000 W

Dimensions wxdxh,in.(cm)

29.6 x 29.6 x 35.5 (75x75x90)
Net Weight: 242.51 lbs (110 kg)

Included Accessories

ASTM 13C Thermometer
Sample Container (8)
Flowmeter

Electrical Requirements

115V 60Hz
240V 50Hz
240V 60Hz

Ordering Information

Catalog No.

K88020	Loss on Heat / Rolling Thin Film Oven, 115V, 60Hz
K88021	Loss on Heat / Rolling Thin Film Oven, 220-240V, 50Hz
K88022	Loss on Heat / Rolling Thin Film Oven, 220-240V, 60Hz

Accessories

K88020-1	Scraper for RTFOT Bottle
K88020-2	Metal Rack for holding/cooling RTFOT Bottles
K88020-3	RTFOT Bottle Tong