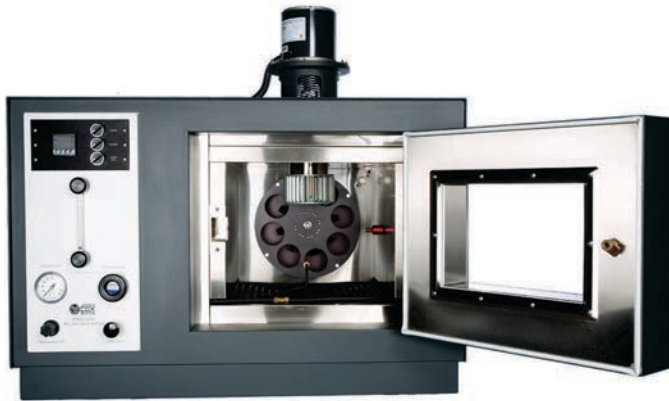


Rolling Thin Film Oven

CS0325

AASHTO T240, ASTM D2872, EN 12591, CTM 346



Developed in California the Cox & Sons RTFO accurately simulates the short term aging of asphalt binder which occurs during mixing



INTRODUCTION

The Superpave PG binder specification looked for tests which would closely simulate field performance. Hotmix asphalt binder experiences significant aging during the manufacturing and laying process. Investigating this phenomenon within a laboratory environment, with a repeatable and simple test is very useful within the design process.

The Rolling Thin Film Oven (RTFO) test is used to measure the effect of heat and air on a moving film of semi-solid asphalt binder. The results of this treatment are determined from measurements of the binder properties before and after the test.

Repeatability of the test is directly related to the accuracy with which the oven temperature can be maintained and the reproducibility of the thermal rise time of the system. The invention of RTFO by Cox & Sons led to the present day AASHTO, ASTM and EN standards for Rolling Thin Film Oven test.

KEY FEATURES

- Invented, designed and manufactured in California
- Super accurate P.I.D. controller
- Low thermal mass RTD
- Over temperature safety cut-out
- Double walled temperature cabinet
- Unique temperature control suppression
- Made in California

SYSTEM ELEMENTS

The CS0325 comprises:

- Long life sustainable bearings to overcome temperature fluctuation
- Integrated unique controller which allows for the quickest response time without excessive overshoot

- Testing jars (full set) supplied according to standard requirements
- Stainless steel interior
- Integral dual 4 digit LED displays allows viewing of the process temperature and set point simultaneously
- Heavy duty “flush fit” door locking system

SPECIFICATIONS

Construction	Double-walled construction. 16-gauge welded steel exterior. 18-gauge corrosion resistant stainless steel interior
Insulation mm (inch)	89 mm (3.5) of high density fiberglass insulation
Controller	Programmable microprocessor UL listed
Temperature Display	Measured Temperature - 4 digit red LEDs Temperature Set Point - 4 digit green LEDs
Thermal Protection	Prevents oven from overheating in the event of control failure
Temperature Range	Ambient to 200°C (390°F)
Vents	Double exhaust vents for dissipation of expended volatile from specimen
Air Flow Adjustment	Needle valve (long taper)
Air Pressure Gauge	Range 0 - 100 psi
Heat Exchanger	5/16 inch diamete copper tube
Electrical Supply	CS0325-1060: 1 Ph 208-230 V 60 Hz (Domestic) CS0325-1061: 1 Ph 208-230 V 60 Hz (International) CS0325-1062: 1 Ph 208-230 V 60 Hz (With Digital Flowmeter) CS0325-1063: 1 Ph 208-230 V 60 Hz (With Digital Flowmeter - International) CS0325-1050: 1 Ph 208-230 V 50 Hz (International) CS-0325-1051: 1 Ph 208-230 V 50 Hz (With Digital Flowmeter - International)
Dimensions (WxDxH) mm (inch)	1016 x 660 x 915 (40 x 26 x 36)
Estimated Weight Kg (lbs)	173 (380)

ACCESSORIES

- CS0325-500 Lab stand with wheels
- CS0325-037 Silica gel 1.5 LB can
- CS0325-062 Dry air system
- CS0325-094 Jar cooling rack
- CS0325-095 Bottle scrapper
- CS0325-112 Digital mass flowmeter, panel mount

