

Asphalt Rolling Thin Film Oven for Binder Aging Simulation

The Asphalt Rolling Thin Film Oven simulates the aging of asphalt binders during hot mix production and construction. It provides a standardized method for determining the effect of heat and air on a moving film of asphalt binder.



Overview

Asphalt Aging Simulation

This Rolling Thin Film Oven is engineered to simulate the short-term aging of asphalt binders, a critical process for evaluating material durability in road construction. By subjecting asphalt to heat and air in a controlled environment, it allows for the precise determination of mass loss and changes in physical properties such as penetration, viscosity, and ductility. The equipment complies with both national industry standards and international ASTM D2872 test methods, ensuring consistent and reliable results for laboratory testing.

Technical Specifications

Working Temperature	163 °C
Controlling Accuracy	0.5 °C
Rotation Speed	15 RPM
Airflow Rate	4000 ml/min
Timing Device	Alarm at 85 minutes

Electrical Requirements

Power Supply	AC 220V ±10%, 50Hz
Heating Power	2400 W
Total Power Consumption	2600 W

Operating Environment

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- Ambient temperature: 5°C to 50°C
- Relative humidity: d 85%

Compliance

Applicable Standards	ASTM D2872, JTJ052
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