

# SYD-0610 Rolling Thin Film Oven



## Summary

This instrument is designed and made as per industrial standard T 0610-2011 Standard Test Method for Effect of Heat and Air on a Moving Film of Asphalt in JTG E20-2011 Standard Test Methods of Bitumen and Bituminous Mixtures for Highway Engineering. It is suitable to determine mass loss of highway asphalt rolling thin film after heating and the change of penetration, viscosity, ductility and breaking point of asphalt residue after the thin film has been heated, so as to estimate the aging performance of bitumen.

## I. Main technical features

1. This Oven is composed of the electric control component, working oven and mechanical drive. An illuminating light is equipped with the oven for convenient observation.
2. There is an air compressor in the oven to supply the air needed for the test. The air can be controlled by a flow meter on the panel.
3. It adopts high precise temperature controller which can meet test requirements.

## II. Main technical specifications

1. Power supply: AC (220±10%) V, 50Hz
2. Heating power: 2.4kW
3. Working temperature: 163°C
4. Temperature control precision: ±0.5°C
5. Rotating speed of turn plate: (15±0.2) r/min
6. Air flow rate: (4000±200) mL/min
7. Timing unit: Alert at 85 min
8. Ambient temperature: (5~50)°C
9. Relative humidity: ≤85%
10. Maximum power consumption: 2.6kW