

Asphalt Pressure Aging System for Bitumen Testing

This system simulates long-term aging of asphalt binders using controlled temperature and pressure. It allows evaluation of asphalt performance characteristics after prolonged exposure to environmental factors.



Overview

Asphalt Aging Evaluation System

The DSHV-1 Bitumen Pressure Ageing System is a specialized laboratory instrument designed to simulate the long-term aging of asphalt binders. By replicating environmental conditions through controlled pressure and temperature settings, it allows researchers and quality control professionals to accurately evaluate asphalt durability and performance. This dual-component system includes both a pressure aging case and a vacuum aging case to provide comprehensive testing capabilities for pavement design and material research.

Pressure Aging Case (DSHV-1-1)

Electrical Specifications

1.1 kW

Rated Power

10 A

Fuse Current

Vessel Parameters

Parameter	Value
Capacity	13 L
Rated Temperature	110°C ± 5°C
Rated Pressure	2.1 MPa
Design Pressure	2.2 MPa
Safety Valve Opening	2.15 MPa

Controller Specifications

- Model: WP962-2 (WP-D90)
- Pressure Accuracy: ±0.01 MPa
- Timing Stage: 64 × 1080 minutes
- Includes Power-off Protection

Vacuum Aging Case (DSHV-1-2)

Electrical Specifications

0.9 kW

Rated Power

10 A

Fuse Current

Vessel Parameters

Parameter	Value
Capacity	13 L
Rated Temperature	170°C ± 5°C
Absolute Pressure	15 KPa

Controller Specifications

- Model: XMT-E 55T2
- Temperature Accuracy: ±0.1 °C
- Time Control: Manual button mode

General Specifications

Compliance Standards	ASTM PS36, AADHTO PPI
Pressure Case Dimensions	630 x 450 x 500 mm
Vacuum Case Dimensions	560 x 390 x 350 mm