

# 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    |