

Pressure Aging Vessel

Pressure Aging Vessels (PAV's) use heated, pressurized air to simulate long-term oxidative aging of asphalt binders. The PAV's consist of an ASME-Code and CE certified stainless steel pressure vessel, stainless steel cabinet with encased band heaters, and integral pressure measurement control.

This state-of-the-art system meets ASTM and includes a platinum RTD device to insure accurate temperature resolution and uniformity. A pressure relief valve and high-temperature thermal shut-down are included as standard safety features. A USB port located on the front of the unit allows the user to easily store test data and upgrade software if necessary. The system now includes remote operation capabilities, and allows the user to completely control the PAV using an app compatible with most smart phones and tablets.

The CS-PAV Pressure Aging Vessel uses a Touch-Screen Controller with front panel user interface for complete control and monitoring of all test processes. The system has an operating pressure range of 2.1 ± 0.1 mPa, and temperature range of $80^{\circ} - 115^{\circ}$ C, with resolution of 0.1° C. This easy-to-use system completes a test in three easy steps: press the heat button, insert specimens when prompted, and press the age button. The stainless steel cabinet measures 28x18x30in (710x460x760mm), WxDxH. The CS-PAV includes a set of ten TFOT specimen pans, a precision anodized aluminum sample holder with lifting handle, and a specimen handling tool. Additional MOA-2 TFOT pans can be ordered as necessary. Bottled compressed air with a pressure of at least 325psi (2.24mPa) and a regulator must be user provided. Est. Ship Wt.: 425lb (195kg).



Standards

- AASHTO R28
- ASTM D 6521
- EN 14769