



Pressure Aging Vessel— H-1630

Pressure Aging Vessel, 220-250V 50/60 Hz— H-1630.4F

The H-1630 pressure aging vessel (PAV), provides a test method for simulating in-service oxidative aging of asphalt binders in accordance to procedures developed by the Strategic Highway Research Program (SHRP). The H-1630 meets ASTM D6521 and AASHTO R28 requirements and consists of a stainless steel pressure vessel with encased band heaters and integral pressure and temperature controls, providing a completely automated system with push-button operation. The system's controller, which can be remotely mounted, automatically pressurizes the PAV vessel and prompts when the unit is primed and ready for use. It also stores temperature and pressure data for later evaluation. The PAV's compact benchtop design allows it to fit into even the smallest of labs; and, it comes complete with all items necessary for operation, including an air pressure regulator.

The H-1630 PAV system is furnished with: a calibrated pressure relief valve, a spare o-ring gasket, a 2-piece removable insulation cover, (10) stainless TFOT pans, a rack for the TFOT sample pans, a handle for the TFOT pan rack, a IEC 340-type, 120 volt power cord, an air supply hose with pressure regulator, in-line filter and quick-disconnect fitting, the system controller (with 1 power and 2 data cables), an air exhaust muffler, and an air exhaust pipe-away adapter. The H-1630 also comes with a back-up power supply, calibration instruments, and other instruments necessary for maintenance.

TFOT Stainless Steel Pans, 10 Pack— H-1630.2

The vacuum oven temperature and pressure must be certified

Calibration Kit— H-1630.3

Kit contains all items required to perform these certifications. Instruments are furnished with current certification at PAV aging points, and N.I.S.T.-traceable data sheets with certification performed by an ISO-9002 certified laboratory.

Vacuum Degassing Oven— H-1632

Pressure Aging Vessel, 230V 50/60 Hz— H-1632.5F

The Vacuum Degassing Oven (VDO) is used to degas pressure-aged binder samples to meet AASHTO R28-06 and ASTM D6521-05 standards. The H-1632 vacuum degassing oven (VDO) is a compact, tabletop design that provides push-button automation of the degassing process. The simple control panel has only three buttons to control the process: Preheat, Start Process and Stop; and, an end-of-cycle alarm lets you know when testing is complete.

The VDO is made from durable stainless steel and features a fully-integrated, vacuum source, which is air-powered. It uses a venturi driven by a laboratory compressed air supply capable of providing compressed air at 6.5 bar pressure or more. A flow rate of approximately 55 liters/minute is required for 30 minutes. The air must be filtered and dried—the venturi produces a chilling effect, and moisture can freeze, expand, and damage the venturi unit. The H-1632A is almost totally silent when producing vacuum and has no moving parts to wear out or break, other than an air flow control solenoid valve.

The H-1632A Vacuum Degassing Oven is furnished with: (4) 250 ml (8oz) sample tins, (2) O-ring gaskets, AC power cord – IEC 340 Type, Stainless steel lid with 5-1/2" diameter heat-resistant glass viewing port and metering valve for vacuum adjustment, Quick-disconnect coupling for user's air supply and an air line filter-dryer for installation in supply line.

Calibration Kit— H-1634

The vacuum oven temperature and pressure must be certified every 6 months. Instruments are furnished with current certification at PAV aging points, and N.I.S.T.-traceable data sheets with certification performed by an ISO-9002-certified laboratory.