



VACUUM DEGASSING OVEN (VDO)

Standard: EN 14769, ASTM D6521, AASHTO R28

The **NL PavePro Vacuum Degassing Oven (VDO)** utilizes advanced vacuum generator technology to remove air bubbles from asphalt binders and materials following pressure aging. This system ensures sample integrity for subsequent testing by maintaining a precise negative pressure environment while monitoring temperature and pressure in real-time.

Designed for efficiency and durability, the unit features a 7-inch touchscreen for curve tracking and a glass viewing window for process observation. Housed in an easy-to-clean stainless steel cabinet, it supports automatic data printing and USB export, ensuring full compliance with international standards

Main Features:-

- **Integrated 7-inch HD Touchscreen Interface:** Provides high-definition control and real-time synchronization of internal vessel pressure and temperature parameters.
- **Dynamic Process Visualization:** Displays comprehensive real-time data trends, including Temperature-vs-Time and Pressure-vs-Time analytical curves.
- **Compliance Monitoring & Deviation Tracking:** Features real-time monitoring of temperature and pressure variances to ensure strict adherence to the latest regulatory testing protocols.
- **High-Frequency Data Acquisition:** Logs critical data at 5-second intervals with seamless export functionality via USB in Excel-compatible formats.
- **Automated Report Generation:** Configured to automatically print a complete data summary and process report immediately upon test completion.
- **Integrated Inspection Port:** Designed with a high-durability viewing window to facilitate real-time visual monitoring, streamlined operation, and maintenance accessibility.
- **Industrial-Grade Stainless Steel Construction:** The chassis is fabricated from premium stainless steel with a specialized protective finish, combining a professional aesthetic with superior corrosion resistance and long-term durability.

Technical Specifications :

Model Number	NL PV / P5
Operating Temperature Range	Room temperature – 200 °C
Preheating Time	10 – 30 min
Vacuum Time	10 min
Operating Pressure	15 + 2.5 kPa
Pressure Control	High-frequency Solenoid Valve
Vacuum Supply	Pressure: 0.7 MPa Flow Rate: 0.05 L/min (Air Pump)
Test Temperature	170°C + 5°C
Product Dimension	550 (W) x 350 (D) x 450 (H) mm
Approx. Weight	72 kg
Power	220~240 V, 1.2 kW, 1 Ph, 50/60 Hz

*1 Copy of Manual Instruction

Unit Consists Of :

Model Number	Parts Description	Qty
NL PV / P5 – P1	Sample Container Ø 70 x 45 mm (4 Units)	1set
NL PV / P5 – P2	Vacuum Pump	1 no.