

# EVAPORATION LOSS OF LUBRICATING OILS BY THE NOACK METHOD



**K44100 Automatic Non-Woods Metal Noack Evaporative Apparatus**

## Included Accessories

Integrated Touch Screen Panel PC  
 Integrated Vacuum Pump  
 Inlet Filter  
 Evaporation Crucible  
 Test Ball (10)  
 Nozzle Cleaner  
 Crucible Holder  
 Protective Gloves  
 Hook Wrench  
 Pliers

**Dimensions** lxxwxh,in.(cm)  
 15.75x17.72x17.72 (40x45x45)  
 Net Weight: 48.5 lbs (22 kg)

## Test Method

For determining the evaporation loss of lubricating oils, particularly engine oils. High temperatures can evaporate oil which may contribute to oil consumption in an engine and can lead to a change in the properties of an oil. A measured quantity of sample is placed in an evaporation crucible that is then heated to 245.2°C with a constant flow of air drawn through it for 60 minutes. The loss in mass of the oil is determined.

## Automatic Non-Woods Metal Noack Evaporative Apparatus

- Conforms to ASTM D5800, Procedure B
- 6.5" Integrated Touch Screen Panel PC
- Integrated Vacuum Pump with automatic electronic control system
- Direct sample temperature measurement via PT100 probe
- Equipped with high resistant Kalrez valve, inlet filter to remove product residuals
- USB port for connection to an external printer and/or external PC
- Storage capacity for more then 60,000 analysis
- CE Marked

The Automatic Non-Woods Metal Noack Evaporative Apparatus tests for the evaporation loss tendencies of lubricating oils at temperatures of up to 275°C. The newly designed electrically heated aluminum block allows for testing without the use of hazardous Woods Metal. The Noack tester is equipped with an Electronic regulator allowing for automatic control of temperature and differential pressure. The system is managed by an integrated 6.5" Touch Screen Panel PC by means of the Noack Evaluation Software run by a Windows® based operating system. The Evaluation Software is capable of recording all analytical parameters, allowing for user customizable parameters, methods and result reports as well as printing graphs and test results.

## Ordering Information

Catalog No.	Description
<b>K44100</b>	Automatic Non-Woods Metal Noack Evaporative Apparatus 115V 60Hz
<b>K44190</b>	Automatic Non-Woods Metal Noack Evaporative Apparatus 220V 50/60Hz

## Accessories

<b>K44100-SFW</b>	Noack Evaluation Software
<b>K44100-1</b>	Glassware Accessory Set Includes: 2L Glass Bottle (2), Rubber Stopper (4), Glass Delivery Tubes, Silicon Connection Tubing
<b>K44100-2</b>	Stand for Glass Bottles with Inclined Manometer, 0-50mm H2O
<b>K44100-3</b>	Noack Reference Oil, 1 Liter
<b>KLA-DB-KIT</b>	Set of Calibration Connectors and Cables
<b>KLA-PT100-CAL</b>	Calibration Decade Box – PT100 Simulator

## Specifications

Conforms to the specifications of:  
 ASTM D5800 Procedure B; IP 421; DIN 51581  
 Capacity: 1 Sample  
 Temperature Range: 225°C to 275°C  
 Temperature Resolution: 0.01°C  
 Temperature Accuracy: ±0.2°C  
 Repeatability/Reproducibility: Meets or Exceeds ASTM D5800  
 Ambient Temperature: Max. 35°C  
 Relative Humidity: Max 80%  
 Heater Power: 420W  
 Electrical Requirements: **CE**  
 115V 60Hz  
 220V 50/60Hz