# **Automated Noack Evaporation Loss Analyzer**

# NCK25G





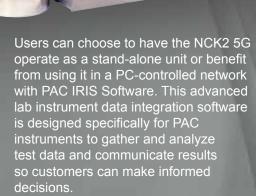
# NCK2 5G

Designed for measurement the evaporation loss of lubricating oils, the ISL's NCK2 5G analyzer enables the safest, easy to operate and most precise testing possible to meet the increasing QS/QA requirements, in full compliance with CEC, ASTM & IP methods.

Designed for routine day-to-day work in labs with high sample workloads, the NCK2 5G test initiates with a few simple keystrokes. The test can be started with either a cold or hot heating block, significantly increasing test productivity. Smart assistance features automatically alert the operator if any test device is not properly set, and the instrument carefully tracks sample temperature and vacuum throughout

the test's duration, providing a digital display of each and recording the values to memory.

NCK2 5G's advanced quality control features — including traceable automatic calibrations with lock-out control and detailed test reports with tracking numbers of all measuring devices — fulfill strict ISO 9000 quality system requirements. The metal temperature probe is delivered with an engraved serial number and traceable calibration certificate. Extended local memory capacity, graphic printer connection and PC link enable powerful, flexible results management.



# PAC IRIS offers:

- Improved laboratory efficiency
- Simplified knowledge sharing and decision making
- Designed to promote Good Laboratory Practices

# **KEY BENEFITS**

- Excellent analysis performance through precise sample temperature control
- Smart temperature probe tracks offsets, calibrations
- Enhanced quality control and calibration features
- Multiple safety features, including automatic pre-test leak check
- Fully equipped unit in compact footprint

# **APPLICATION**

- Base stock oil
- Formulated motor oil
- Gear box & transmission oil
- Shock absorber oil
- Automatic transmission fluid
- Hydraulic fluid
- Waxy products

# **METHODS**

In accordance with:

- CEC L-40-93
- ASTM D5800
- IP 421



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ISL is a global, leading provider of scientific apparatus and instruments for testing petroleum and petrochemical products in the lab and online. More than 20 automatic analyzers bearing the ISL brand are recognized for increasing test precision, boosting laboratory efficiency and reducing costs.

result in specifications or Continuing research and develop-ment may result in specifications o arance changes at any

# **POWERFUL PRECISION, VERSATILE TESTING**

- Directly measures specimen temperature, providing evaporation loss characteristics in accordance to CEC, ASTM "Procedure B" and IP
- · Compact footprint and monoblock design
- High sample throughput thanks to minimum downtime Test Start either "Cold" or "Hot" mode
- · Optional tube heating for waxy application testing

# **SMART, FLEXIBLE USER INTERFACE**

Accurate visualization of Temperature and Pressure Curves

# **ENHANCED SAFETY & QUALITY COMPLIANCE**

- Heating without Wood's alloy usage for increased safety & analysis precision
- Automatic alarms and start test refusal in case of improper installation of sample probe and/ or crucible
- Smart temperature probe with built-in memory chip transmits ID, offset values and calibration history to instrument at plug-in
- Detailed test reports with tracking numbers of measuring devices

# **SPECIFICATIONS**

**GENERAL INFO** •Standards Test Methods: CEC L-40-93, ASTM D5800, IP 421

•Patents and Certifications : Compliance CE

**OPERATION** 

Analytical principle Automatic calculation of evaporation loss by No

Heating Spring ring low voltage heating elements

Test duration Programmable from 30 minutes to 4 hours

Temperature Direct specimen temperature control:

Programmable from 100 to 300°C; ±0.1°C resolution; ±0.5°C stability Measurement

Sample Weight Key in by operator or optional direct balance connection; Management

Vacuum 19 to 21 mm H2O; ±0.05 accuracy, ±0.2 stability electronic vacuum control (stadard); vacuum circuit equipped with air filter (standard); optional flowmeter

Calibration Automatic calibration with programmable frequency; 5-point probe offset

correction table; automatic diagnostic routines on analyzer functions; upload/ download service features via PC; calibration parameters and unit program backup/restore feature

**MEASUREMENTS** 

Temperature Pt100 with built-in memory chip; instrument automatically recognizes probe at

plug-in, gathering its ID, offset values and calibration history records; Offset capability with correction table (5 points)

Sample Crucible Cover engraved with serial number for tracking when several crucibles are used on one NCK2 5G; 10 crucible's serial number can be memorized by the instrument

**DATA MANAGEMENT** 

Voltage 230-240V or 100-115V Frequency 50-60Hz Power 800 W

INTERFACE SPECIFICATIONS

Display LCD Graphic display, Alphanumeric keypad, flat and solvent-proof, with dedicated function keys

PAC IRIS Software • Run Control

features for NCK2 5G · Results Quality Control

Data input/Output Centronics® parallel link for graphic or text printer (40 or 80 columns). RS232C serial link for direct connection to LIMS or external PC

**ENVIRONMENTAL CONDITIONS AND PHYSICAL SPECS** 

Operating temperature 15 to 35°C (50 to 104°F)

Humidity Relative humidity: up to 80% at 35°C (not condensing)

Dimensions 450 x 640 x 450 mm (18")(18 x 25 x 18 inch) (W x D x H)

Weight 30 kg (66 lb)

# SAFETY AND ERROR PREVENTION

Password Security Multi-level password protection

Vacuum Leak Check Automatic self-check for leaks at start of each test run

Test Condition Message warning & audible alarms if test conditions are not correct Verification

Temperature Programmable sample over-temperature security, +10°C setpoint; heating block overheating protection; test can be started with cold or hot heating block

# **RELIABLE PERFORMANCE & QUALITY**

Automatic calibration with calibration frequency program; probe correction capabilities Stores time-recorded, automatic calibrations with results Endurance tested and proven for long-term operation

Accommodates and enhances most rigorous quality control programs

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