SPECIFICATIONS

Operation	
Test Methods	CEC L-40-93, ASTM D5800, IP 421, DIN 51581
Analytical principle	Automatic calculation of evaporation loss by Noack method
Heating	Spring ring low voltage heating elements
Test duration	Programmable from 30 minutes to 4 hours
Temperature Measurement	Direct specimen temperature control, programmable from 100 to 300ºC; ±0.1ºC resolution; ±0.5ºC stability
Sample Weight Management	Key in by operator or optional direct balance connection;
Vacuum	19 to 21 mm H2O; ±0.05 accuracy, ±0.2 stability electronic vacuum control (standard); 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
Measurement Reports	
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
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, IRIS Suite connection for multi-instrument networking, Port series RS232 for direct connection to weighting scales
Environmental Conditions	
Operating temperature	15 to 35˚C (50 to 104˚F)
Humidity	Relative humidity: up to 80% at 35˚C (not condensing)
Power	800 W
Physical Specifications	
Dimensions (W x D x H)	450 x 640 x 450 mm (18 x 25 x 18 in)
Weight	30 kg (66 lb)
Safety	
Password Security	Multi-level password protection
Test Condition Verification	Message warning & audible alarms if test conditions are not correct
Temperature	Programmable sample over-temperature security, +10ºC setpoint; heating block overheating protection; test can be started with cold or hot heating block

Continuing research and development may result in specifications or appearance changes at any time

ABOUT PAC

PAC develops advanced instrumentation for lab and process applications based on strong **Analytical Expertise** that ensures **Optimal Performance** for our clients. Our analyzers help our clients meet complex industry challenges by providing a low cost of ownership, safe operation, high performance with fast, accurate, and actionable results, high uptime through reliable instrumentation, and compliance with standard methods.

Our solutions are from industry-leading brands: AC Analytical Controls, Advanced Sensors, Alcor, Antek, Herzog, ISL, Cambridge Viscosity, Phase Technology, PSPI, and PetroSpec. We are committed to delivering superior and local customer service worldwide with 16 office locations and a network of over 50 distributors. PAC operates as a unit of Roper Technologies, Inc., a diversified technology company and a constituent of S&P 500, Fortune 1000, and Russell 1000 indices.

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Visit our website to find the
PAC representative closest to you.

NCK2 5G Brochure Rev.2 08/17

PAC | solid partners proven solutions

NCK2 5G

Noack Evaporation Loss Tester

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

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NCK2 5G

PRECISE TESTING KEEPS YOU IN COMPLIANCE WITH IMPORTANT TEST METHODS

ISL's safe, easy to use NCK2 5G Noack evaporation loss analyzer enables the most precise testing to meet 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.

KEY ADVANTAGES

POWERFUL PRECISION, VERSATILE TESTING

- Directly measures specimen temperature, providing evaporation loss characteristics in accordance to CEC, ASTM "Procedure B" and IP methods
- 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
- Accurate visualization of Temperature and Pressure Curves

APPLICATIONS

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

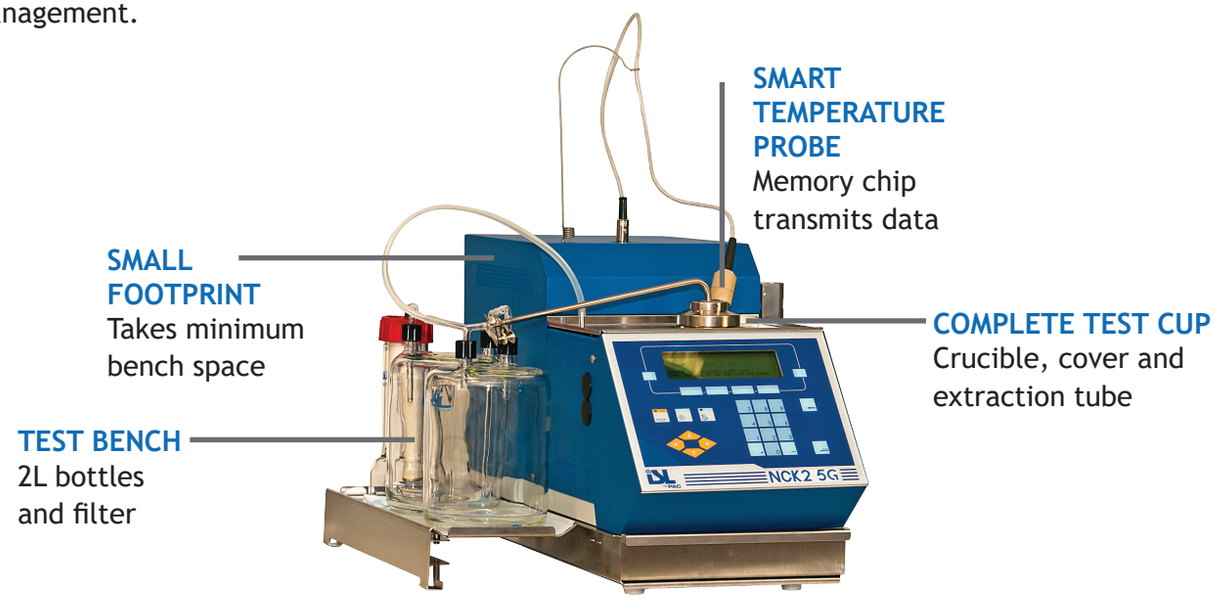
ENHANCED SAFETY & QUALITY COMPLIANCE

- Heating without Wood's alloy 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
- Detailed test reports with tracking numbers of measuring devices

TOP QUALITY CONTROLS

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.

Users can choose to have the NCK2 5G operate as a stand-alone unit or benefit from using it in a PC-controlled network with PAC IRIS Software. This advanced lab instrument data integration software is designed specifically for PAC instruments to gather and analyze test data and communicate results so customers can make informed decisions.



RELIABLE VOLATILITY TEST

The Noack Volatility Test is used to determine evaporation loss of lubricating oils, an issue of particular importance in engine lubrication. Portions of an oil can evaporate under high temperature conditions, potentially altering oil properties such as viscosity. A low Noack score indicates an oil that will maintain its original protective and performance quality for a longer amount of time. These oils perform better under heat, translating to better engine protection, longer oil life, and improved fuel economy.